

SVS INSTITUTE OF DENTAL SCIENCES

Appannapally, Mahabubnagar - 509 001, TS, INDIA.

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The institute formulates the learning objectives of each program during the course beginning. College management, with their faculty members conducts the orientation program. During this orientation program faculty members discuss about the program structure, course content, how the course is scheduled year wise and the evaluation process like examinations, practical procedure.

Assessment process:

Knowledge gained by the student is assessed by various procedures like college conducts classes according to the given schedule and at the end of the class the content delivered to the student is assessed by pre and post-test evaluation.

This is achieved by two processes: Formative evaluation or internal assessment and Summative or University examinations.

- 1. Formative evaluation is done through a series of tests and examinations conducted periodically by the institution.
- 2. Summative evaluation is done by the University through examination conducted at the end of the specified course.

Examination scope:

These regulations shall be applicable for the BDS degree examinations conducted by various universities in the country. A preface evaluation is a continuous process which is based upon criteria developed by the concerned authorities with certain objectives to assess the performance of the learner. This also indirectly helps in measurement of effectiveness and quality of the concerned BDS program.

Evaluation is achieved by two processes- Formative or internal assessment and Summative or university examinations

Formative assessment is done through a series of test and examination conducted periodically by the institution and Summative is done by the University through examination conducted at the end of the specified course.

Methods of evaluation:

Return test, Practical Examination, viva, internal assessment examination.

The continuous assessment examination may be held frequently at least three times in the particular year and the average marks of these examinations should be considered. 10% of the total marks in each subject for both theory and practical and clinical examination separately should be set aside for the internal assessment examination.

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Scheme of examination:

The scheme of examination for BDS course shall be divided into first BDS examination at the end of the First academic year, Second BDS examination at the end of second year, Third BDS examination at the end of third and Final BDS.

The examination shall be open to a candidate who satisfies the requirements of attendance progress and other rules laid down by the University.

FIRST BDS EXAMINATION

- 1. General anatomy, Embryology and Histology
- 2. General Human Physiology and biochemistry
- 3. Dental Anatomy, Embryology and Oral Histology.

SECOND BDS EXAMINATION

A candidate who has successfully completed the First BDS examination can appear for second BDS examination.

- 1.General pathology and Microbiology
- 2.General and Dental Pharmacology and therapeutics
- 3.Dental materials
- 4. Preclinical Conservative
- 5. Preclinical Prosthodontics

THIRD BDS EXAMINATION

A candidate who has successfully completed the Second BDS examination can appear for third BDS examination.

- 1.General medicine
- 2.General surgery
- 3.Oral pathology and Microbiology

FOURTH BDS EXAMINATION

A candidate who has successfully completed the Third BDS examination can appear for Final BDS examination.

- 1. Public Health dentistry
- 2.Periodontology
- 3.Orthodontics and Dentofacial Orthopedics
- 4. Oral medicine and Radiology

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- 5. Oral and Maxillofacial surgery
- 6. Conservative dentistry and Endodontics
- 7. Prosthodontics, Crown and Bridge
- 8. Pediatrics and preventive dentistry.
- Evaluation should be made both objective and structural. The method of objective structured
 clinical examination should be followed. This will avoid examiner bias because both the
 examiner and the examinee are given specific instructions on what is to be observed at each
 stage.
- The candidate should be given credit for his/her records based on the score obtained in the record scheme of Clinical and Practical Examination.
- Marks allotted for each had to be discussed and finalized by the Chairman and other
 examiners and it is to be published prior to the conduct of the examinations along with the
 publication of the time table for the Practical Examination.
- Each Candidate should be evaluated by each examiner independently and mass computed at the end of the examination. This is an excellent mode of assessment because, it permits a fairly broad coverage and it can assess the problem-solving capacity of the student and assessment related to the effective domain is also possible through it.
- Criteria for a pass is 50% of the total marks in any subject computed as aggregate. Any candidate who fails in one subject in an examination is permitted to go to the next higher class and appears for the set field subject and completed successfully before he is permitted to appear for the next higher examination.

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DEPARTMENT OF PUBLIC HEALTH DENTISTRY CLINICAL AND FIELD PROGRAMME RECORD BOOK

NAME	BOLLA MANISHA
ROLL	170210602-0
YEAR:	IV YEAR (2023-2024)

SVS Institute of Dental Sciences
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SVS INSTITUTE OF DENTAL SCIENCES MAHABUBNAGAR

University Reg. No 1902106020

DEPARTMENT OF PUBLIC HEALTH DENTISTRY CLINICAL AND FIELD PROGRAMME RECORD BOOK

20 ¾ to 20 34

NAME	: 1211	Solla Manisha
ROLL NO	:	1902106020
T/OLL III		12023-2024
YEAR	·	

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SVS INSTITUTE OF DENTAL SCIENCES MAHABUBNAGAR

CERTIFICATE

Certified that this is a Bonafide Record work done by Mr. /Miss/Mrs
Bolla Manisha with the university Roll Number 1902106020
in the Department of Public Health Dentistry in the year 20. 23 20. 24.

Department of scalth Dentistry

SVS Institut

Maha Maha

Signature of the HOD

Signature of the Examiners

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Munuly

CASE HISTORY PROFORMA I

Student's Name: B. Manisha
Date: 10 05 2023 OP.No. 2328247
Patient's Name: tauslaya Age: 36 years Gender: Famale
Date and place of Birth:
Religion: Hindhu
Education: Illituate-1 Occupation: Labour-2
Total Income of family members: 5
Thermoeta.
Percapita income: 25,000 x12 -60,000 - Uppu howa class-1V
Address and Contact Number:
tondapu , Dhanwada (Md1), Mahabubnagae
7039118336
1. Chief complaint: patient Complaintest pain in her hower heft back tooth Region Since I month.
II. History of present illness: hatu, she developed pain in howe heft back tooth negion was gradual in Durch, Intermittent in nature, theoboing type, mild in Interesty no aggregative Medical History: On Medical History:
- No Relevant medical history as Stretch by patient. IV. Past Dental History:
and Visit promoter
1st Visit Edilaction in Lower 19 for Denial Sciences Yegion 24 MASTABLENAGAR

V. Family History:						
a) Siblings: 9 b) Marit	al status: Maurica c) Children (if any) 3					
VI. Personal History:						
a) Adverse habits:	1					
a.Present habits Tham						
Number	5-6 Frequency 5-6 Duration 20 years.					
1. Smoking						
2. Smokeless tobacco	la light since 20 years					
a. Ghutka -	Thambaku chiwes 5-6 lines daily since 20 years					
b. Pan with tob	рассо					
3. Pan chewing	1 10 1 10					
4. Alcohol consumpti	on Occasional Alcoholie					
b) Habits related to oral cavit	y:					
a.Present	b.Past					
1. Mouth Breathing	Present/absent					
2. Thumb sucking	Present/absent					
3. Tongue thrusting	Present/absent					
4. Bruxism	Present/absent					
5. Pencil/nail/lip biting	Present/absent					
c) Oral Hygiene Practices:						
	Toothbrush Finger Twig Any other					
Duration - 5 minules	Mounterly					
1a. Type of tooth brush	Soft / Medium / Hard PATHICLE AL SVS Institute of Dental Sciences MAHABUBNAGAR					

2. Method of Cleaning: Vertical Horizontal Circular
3. Materials Used: Toothpaste Tooth powder Charcoal
Sand Brick powder Any other
4. Frequency of cleaning: Once Twice More than twice
5. Time of brushing: Before meals After meals
6. Frequency of changing the toothbrush: Hading of Britles (5 months)
Reason
7. Use of other oral hygiene aids:
d) Dietary habits: Minud
1. Source of water: Ith Watu
2. Diet : Vegetarian Mixed
3. Dietary chart:
Time Item
8:00 AM 5 Idl? with chutucyt loup of Tra with I spown of Sugar
12:30 PM I baml of Rice + with dal
2:00 AM 5 Idli with chutucyt loup of Trawith I spoon of Sugar 12:30 PM Laml of Rice + with dal 4:00 PM Cup of Trawith I spoon of Jugar
8:00 AM 5 Idli with chutucyt loup of Tea with I spoon of Sugar 12:30 PM Lap of Tea with I spoon of Sugar 8:00 PM Bowl of Rin with dal
4:00 PM 1 Cup of Tra with I spoon of Sugar
4:00 PM 1 Cup of Tea with I spoon of Sugar 8:00 PM 1 Bowl of Rin with dal
4:00 PM 1 Cup of Tea with I spoon of Sugar 8:00 PM 1 Bowl of Rin with dal
Staple Diet: Rice Sugar Exposure: [wice Good 4:00 PM Cup of Tea with I spoon of Sugar Sconi = 5x2=10 Sugar Consumption (per day)
Staple Diet: Rice Sugar Exposure: [wice Good 4:00 PM Cup of Tea with I spoon of Sugar Sconi = 5x2=10 Sugar Consumption (per day)
Staple Diet: Rice Staple Diet: Rice Sugar Exposure: Twice 4. Sugar consumption (per day) Type: Liquid Frequency: 2 Time of intake: before & meals Formand consistency: Solid liquid Object to the meals
Staple Diet: Ria Staple Diet: Ria Sugar Exposure: Twice 4. Sugar consumption (per day) Type: Liquid Frequency: 2 Time of intake: by for & institution in take: minimum.

VII. General Physical Examination
Built moduale Built
Posture Excel
Gait Monmal
Vital Signs *
VIII. Local examination
a) Extra oral 1. Symmetry: No Gross faual Asymmetry noted 2. T.M.J: Bilatus Cynchronous with no cheling or popping Lounds Not palpable
1. Symmetry: No grow I with no dicking or popping bounds
2. T.M.J: Bilatus Cynthon La
3. Lymph nodes:
1 Lip competency Computant
b) Intra oral
b) Intra oral 1. Soft tissue: Tongue No Abusemaly detected Labial mucosa melanin pigmentation on hift Runal Musosa Palate No Abusemaly detected
Tongue No Fromentation on hift Bullant
Labial mucosa melanin pignitud
Palate No Abnormally life detected
Floor of mouth No Abnorman
Alveolar mucosa No Abnormani
Labial mucosa melanin pigmentation on palate No Abnormality detected Floor of mouth No Abnormality detected Alveolar mucosa No Abnormality detected Lip Competent Color pale pink with melanin Contour Gingiva Color pale pink with melanin Contour Consistency frame Ruillent Texture Stippling brucial Bleeding on probing Payer Rocalized #5
Gingiva Color pale plus with tation Contour Stipping formers
Consistency June Ruilient Texture Stiff 1
Consistency frame Rullent Texture To Bleeding on probing Payent Rocalized 3/5
SVS Institute of Dental Ser MAHABUBNAGAR

2. Hard tissue	
Type of dentition:	
Number of Tooth present: 2 \$	
Teeth present: $\frac{9}{9} = \frac{1}{9} = \frac{321}{9} = \frac{1}{1239561}$	
Teeth missing and reason for loss: - [Calvaction done due to the total a year back.	•
Root stumps: -Absent	
Dental caries: prund	
Non cavitated (Initial):	
Cavitated: class-11 Dental Caries =	
Cavitated (with pulp exposure): prucut =	
Secondary Caries: -Abscut	
Filled leeth: A brown	
Any prosthesis: Crown A breat	
a rago	
RPD\Implant -/ bun-	
Wasting disease: a. Generalized b. Localized	
A AU 22 - Al - I	

A. Attrition - A bread

B. Abrasion 63 6

54 47

C Erosion - Absert

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Enamel Hypoplasia: A but

Dental Fluorosis:

-A bunt

Supernumerary teeth: A breat

Any other anomaly please specify: Abread

Malocclusion: Anglus class-1 molar rulation bilatually (Lytside)

Fractured teeth

About

Dental deposits : stains (intrinsic/extrinsic)

calculus wild

3. Periodontal Status:

Gingival recession: Try class-1 miller

Periodontal pocket: localized / generalized 64

Mobility of teeth: Grade-11-67

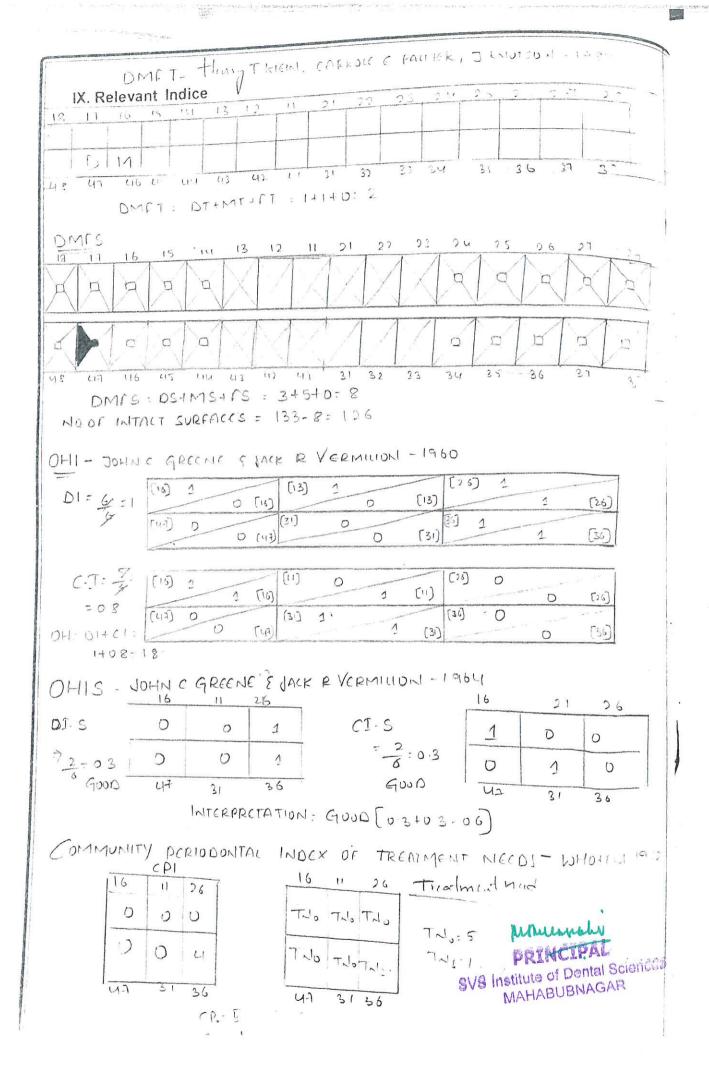
4. Oral Hygiene Status:

Dental deposits

calcului-mild stains -mild

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					*				22				96	27	28
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)	O	0	C'	0	U	0									
	1)	V	1)	b	0	0	0	U	0	(1)	0	0	8	6	X
			1	1	U. 2	<u> </u>	41	31	32	33	34	55	6.1	1.1	38
	11.7	.00	03	UU	11								1.16	11/17/13	

SVS Institute of Dental Sciences 28 = 0 2 -> SIMPLE GLUGWITTS MAHABUBNAGAR



April Dental Curu = 1 15 llu clauri - 1. X. Provisional diagnosis: Chronic genualised ging niter with hocalged perodontile they

Partial Edentulous of Dentinal hypomensitives XI. Investigation: XII. Diagnosis: cheonic pui Apical Absects 67 / class-II Dental Caricing Ellis class-1 + chouse generalised gingivites Localized periodontile they,
III. Treatment Plan: partial Eductulous of Dentin hypomenitivity. PRIMARY LEVEL: Advise patient to brush twice daily with soft brittle

- Advised modified stillmann tuhnique, Advise demensitising paste.

- Advised modified stillmann tuhnique, Advise demensitising paste. Advise patient to Visit dential Every 6 months, Advice to Quit hasit of thamakku & Alcohol Consumption, Advin palitul to change bruch Every SECONDARY LEVEL: Advisse Onal prophylanis -Advise Rectoration 63/16 53/45 TERTIARY LEVEL: Advise replacement of milling of with Eiltru FPD/RPD/Implant Advice-Entrailion of 167 followed by Replacement of

micing teath

Advin Post canal treatment of followed by Gown PRINCIPAL Scienged Placement.

CASE HISTORY PROFORMA - II

	ſ\	
	Student's Name: B. Marrisha	Committee to the committee of the commit
	Date: 01 06 23	OP.No.
	Patient's Name: havauya Age: 48	years Gender: funal.
	Date and place of Birth: Shadhnagas	
	Religion: Hrudhu	
	Education: 9th class - 4 Occupation	ion: Unemployed-1
	Total Income of family per month: - 30,000 - 2	
	Total number of family members:	truppuswamy solio Economic status
	Percapita income: 30,000 x12 = 90,000 -	- 7 [Lower day]
	Address and Contact Number:	uppu
	Chadhuagas	
	9010345106	
	1. Chief complaint: paluint Complaint of pair backingoth ugion b	
	- palent Har Apparently Asymptoma	lic y days ago, hain
	II. History of present illness: dudoped pain in	hu howce night bock
90	region was gradual in Durct, intumitted in	yalus, moduate in mun
	II. History of present illness: dueloped pain in region was gradual in Duret, intumittent in aggregated On intake of food & cold & reduced III. Medical History:	ed On meduation
	III. Medical History:	La dint
	III. Medical History: - No relivant yedical history as El IV. Past Dental History:	Titled by parton
	1 1 1 1 1 1	I My Layery
	and dutal little	2 bouck tipl back
	productal Muit (Entroite toot	SVS institute of Dental Science
	tool	" TOMATTAGE

V. Family History:						
a) Siblings: 3 b) Marital status: N	family (c) Children (if any)					
VI. Personal History:						
a) Adverse habits:						
a.Present habits	b.Past Habits					
Number F	requency Duration					
1. Smoking						
2. Smokeless tobacco						
a. Ghutka	MATERIAL TO A STATE OF THE STAT					
b. Pan with tobacco						
3. Pan chewing						
4. Alcohol consumption						
b) Habits related to oral cavity:						
a.Present	b.Past					
1. Mouth Breathing	Present/absent					
2. Thumb sucking	Present/absent					
3. Tongue thrusting	Present/absent					
4. Bruxism	Present/absent					
5. Pencil/nail/lip biting	Present/absent					
Practices:						
1. Type of cleaning aid: Toothbrush Finger Twig Any other						
Duration - 5 minutes Market Scientification						
1a. Type of tooth brush Soft 7 of Mes	Magar NAGAR					

2. Method of Cleaning: Vertical Horizontal Circular
3. Materials Used: Tooth paste Tooth powder Charcoal
Sand Brick powder Any other
4. Frequency of cleaning: Once
5. Time of brushing: Before meals After meals
6. Frequency of changing the toothbrush: 5 mouths
Reason Haring of bristles
7. Use of other oral hygiene aids:
d) Dietary habits: Wind
1. Source of water: filtu Walu
2. Diet : Vegetarian Mixed
3. Dietary chart:
Time Item
8:00 AM Roti with lap of coffee with spoon of Sugar
12:30 PM Bowl of rice with Curry.
5.00 PM 1 Cup of Coffee with Spoon of Sugar
8:30 PM 1130wl of office + Cum
Staple Diet: Piu Jugar blon = 5x2=10
Sugar Exposure: Twice Good
4. Sugar consumption (per day)
Type: Liquid Frequency: Twice Time of intake After Einslu
Form and consistency: Solid /Liquid/Sticky /Non-stickys Institute of Dental Liquid/Sticky /Non-stickys Institute of Dental Liquid/Sticky /Non-stickys Institute of Dental Liquid/Sticky /Non-stickys Institute of Dental Liquid

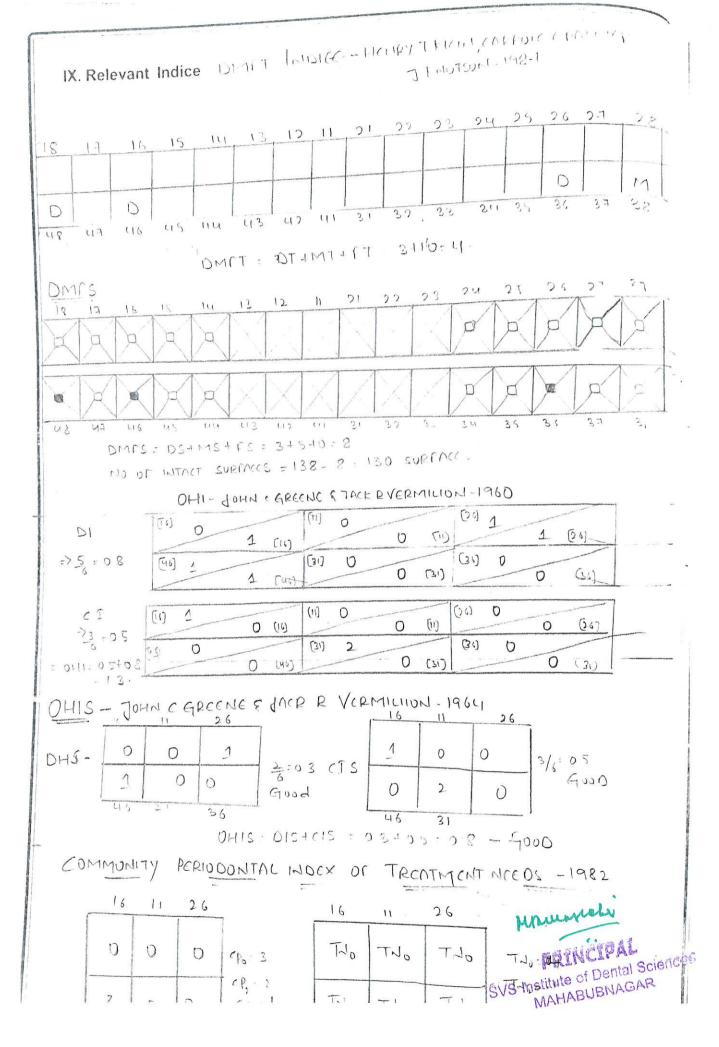
	Built moduately Built
	Built moduately Built Posture Enct
	Gait Nomma
	Vital Signs *
III. Lo	ocal examination
	a) Extra oral
	1. Symmetry: No grow faual Asymmetry noted
	2. T.M.J: Bilatual dynchenous with no clicking on popping bounds are
	3. Lymph nodes: Not palposte
	4. Lip competency Competent
	b) Intra oral
	1. Soft tissue:
	Tongue No Abnormality delicted
	Labial mucosa No Abovernality delicus
	1. Soft tissue: Tongue No Abnormality dituted Labial mucosa No Abnormality dituted Palate No Abnormality ditected Floor of mouth Almormality ditected
	Floor of mouth No Abnormality detected Alveolar mucosa No Abnormality detected
	Alveolar mucosa No Abnormality detected
	Lip Constant
	Gingiva Golor Generalind melanta Dealloped
	when the consistency fum & Ruiliuit Texture expling pricus
	Lip Competent Gingiva Golor Gunalind milania Golor Gunalind milania pignintation Contour dealloped pignintation Contour dealloped pignintation Texture etappling prient svs institute of Dental AR SVS Institute of Dental AR MAHABUBN Bleeding on probing Abjent
	SVS MAHADO

VII. General Physical Examination

Pamanent Dentilion 2. Hard tissue Type of dentition: Number of Teeth present: 29 Teeth present: 765 y 321 | 123 y 567 | 2 765 y 321 | 123 y 567 | . Teeth missing and reason for loss: - 18 (fit action done due to benta)

Root stumps: About porunt Dental caries: Non cavitated (Initial): Cavitated: class-1 86/6 / Top +rc 6 Cavitated (with pulp exposure): Absurt Secondary Caries: About Filled teeth: Absent Any prosthesis: Crown Abreut Bridge Abscut RPD\Implant Abscut a. Generalized V b. Localized Wasting disease: A. Attrition prusuit SVS Institute of Dental Science MAHABUBNAGAR B. Abrasion - Abscut C. Erosion - Abscrit

Enamel Hypoplasia: Absurt		A CONTRACTOR OF THE PERSON NAMED IN CONT			
Dental Fluorosis: Absent		Alexandra March			
Supernumerary teeth: About					
Any other anomaly please specify: About					
Any other anomaly please specify: About Malocclusion: Auglu class-I molar relation bilaterally.					
Fractured teeth +) but					
Dental deposits: stains (intrinsic/extrinsic)					
calculus prum		The contract of the contract o			
		and days			
3. Periodontal Status :		Charles Mills Gold, Nich.			
Gingival recession: About		Common State of the State of th			
Periodontal pocket: localized / generalized 6		See Javasses See			
Mobility of teeth: A breat					
• · •					
4. Oral Hygiene Status :	5				
Dental deposits Calculus - mild Calculus - mild Calculus - Mild Calculus - Mild		The second secon			
RUSSELLS 24 25 26	27	28			
18 17 16 15 14 13 12 11	0	×			
X 0 0 0 0 0 0 0 0 0 0 0	0	×			
	3 1	3 8			
V2 113 116 115 114 113 113 113 2 33 34 27					
Mull 38 moss SIMPLE GINGS					
ethule of Dental AR					
SVS INSTANCES					



Aprical puiodoutitus -6
X. Provisional diagnosis: class- Dental Caries 516
X. Provisional diagnosis: Class- Dental Caries 516 Chronic generalized gingivilus with horalized purodontitu 6
10PA-6 Abscess 6
XII. Diagnosis: cheonic purtipical resics \$16 of hocalised
XII. Diagnosis: chouse puiApseal Abscess 6 class-1 Dental Casies A6 class-1 Dental Casies A6 xIII. Treatment Plan: chouse generalized guignistic with hocalized punodoutilu 6
PRIMARY LEVEL: Advise pateent to boush twose daily with soft bristles Advise modified chilman technique. — Advise modified chilman technique.
PRIMARY LEVEL :- Advise patient to bush home
Advice modified stillman technique.
- Advise palunt to Vust durist Every 6 months. - Advise palunt to Vust durist Every 3 Months.
Adrise patient to
- Advise Dral prophylanis. Det tous (GIC)
- Adrise Ristoration 8/6 (GIC)
- Harrise
TERTIARY LEVEL: Advince Poot Canal treatment of followed by Crown planment.
TERTIARY LEVEL: Pool Canal treatment of
Laurent.
by Chow
When the same of t
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CASE HISTORY PROFORMA - III

Strongers Marke
Park 11 12 2
Pare as spiace of Birth Legarthurson
Pare and place of Both Lagar truescol
Reigian Adriates
Enscation Graduate 6 Occupation Student 1
Total Income of family per month 80,000 - > 6 Ruppuswarung derin family members 5 Sercapita income 20,000 x12 - 1,92,000 - Lower wild like lass
Total number of family members 5
Percapita income 20,000 x12 - 1,92,000 - Lower wildlings
Address and Contact Number
Magarhumool / 9030046836
1. Chief complaint: patent Complaint of (pain) dislodged filling in his hower high back tooth region since Imouth.
medical History
of Earl tooth region which was not - Associated with pain.
III Medical History
No reducated medical lentery or stilled by palent
IV. Past Dental History
2 red Associal Miss
and distal Visit - filling in house hill East both age
1st VIII - Catarlina in Lower right but the off pental sciences SVS Institute of Part ABUBNAGAR June 12

V. Family History	
and the start of t	the same of the state of the state of
VI Personal History	
and timese habits	
a Prosport habits Alusholis	b Past Habits
Number	Frequency Creation allows 11.
1 Smoking	
2 Smokeless tobacco	
a Ghutka	
b Pan with tobacco	
3 Pan chewing	· Afrohalie
3 Pan chewing4 Alcohol consumption Que	CHOMAL
b) Habits related to oral cavity	h Clast
a Present	b Past
1 Mouth Breathing	Present/absent
2 Thumb sucking	Present/absent
3 Tongue thrusting	Present/absent
4 Bruxism	Present absent Present absent
5 Pencinal planning	E1620DE HOUSE
 Challeygene Markets Type of the markets Entre of 	Trunk Trull Angelon
	Mhumahi
Lumber Grandin	Market of Denis And
ta Type of the thirty to the the	SVS Institute of Denis ANA

2. Method of Cleaning: Vertical Horizontal Circular
3. Materials Used: Toothpliste Tooth powder Charcoal
Sand Brick powder Any other
4. Frequency of cleaning: Once Twice More than twice
5. Time of brushing: Before meals After meals
6. Frequency of changing the toothbrush:
Reason Harling of bristles
7. Use of other oral hygiene aids:
d) Dietary habits: Mîma
1. Source of water: filtu Inlalu
2. Diet : Vegetarian Mixed
3. Dietary chart:
Time Item
8:00 AM 2 dosa with chutney & dambas
5.00PM Cup of Tra with spoon of Sugar
8:00 PM 1 Bowl of she with Carry.
·
Staple Diet: Riu Jugar Scon = 5 XI=T Sugar Exposure: Once - Excellent
Sugar Exposure: Once - Exullent
4 Sugar consumption (per day)
Type: higher than The transport of the tour
Form and consistency: Solid /Liquid/Sticky /Non-sticky MAHABUBNAGAR

	Built moduately Built
	Built moduately Built Posture - Exact
	Gait Normal
	Vital Signs *
VIII. La	ocal examination
	a) Extra oral
	1. Symmetry: No grow facial Asymmetry noted
	2. T.M.J: Silatural Cynchronous with no citienty anchean
	3. Lymph nodes: Not palpable
	4. Lip competency Compilent
	b) Intra oral
	1. Soft tissue:
	Tongue No Abnormality detected Labial mucosa No Abnormality detected
	Labial mucosa No Abnormality action
	AL ALIGINAGING
	Alveolar mucosa No Abnormality detected
	Lip Competent
	Gingiva Color pale plink Contour Wealloped Lip Competent Consistency fum & Ruillent Texture Olipphing prime SVS Institute of Dental Science on probing primer SVS Institute of Dental Science on probing primer MAHABUBNAGIBLEEDING DENTAL SCIENCE OF DENTAL SCIENC
	Consistency fum { Ruillent Texture () ippling pros
	institute of Denter ABleeding on probing prisent 32/1 (localized)
	SNO WATER

VII. General Physical Examination

2. Hard tissue	y.	
Type of dentition	Comment Winds	101/
Number of Teeth	present 31	
Teeth present:	\$ 2 5 7 5 2 1 1 3	3 4 5 6 7 8
Teeth missing ar	nd reason for loss:	Entraction done a years back do
Root stumps:	Abunt	to dental cauci
Dental caries:	Prucut	
Non cavitated	d (Initial):	
Cavitated:	class- Mental Caure	sof, Buccal pit st
Cavitated (w	vith pulp exposure): Abu	at
Secondary Cari	es: Priscut 6.	
Filled teeth:	Absent	
Any prosthesis: (Crown About Bridge About RPD/Implant Absen	
Wasting disease		b. Localized
A. Attrition	Absent	
B. Abrasion	Present 3/2	PRINCIPAL PONTAL Sciences
C. Erosion	Absent	SVS Institute of Dental Sciences MAHABUBNAGAR

Enamel Hypoplasia: Abrent Absent Dental Fluorosis: Supernumerary teeth: A-bscut Any other anomaly please specify: About Malocciusion: Auglis class-1 molai relation bilatually. Absent Fractured teeth Dental deposits: stains (intrinsic/extrinsic) calculus - pruscut 3. Periodontal Status: -Absent Gingival recession: Periodontal pocket: localized/generalized Abreut Mobility of teeth: About 4. Oral Hygiene Status: Stains - wild Calculus - mild Dental deposits DMFT - HENRY T KLEIN, CARROLE & PALMER, J KNUTSON - 1987 28 0 M 0

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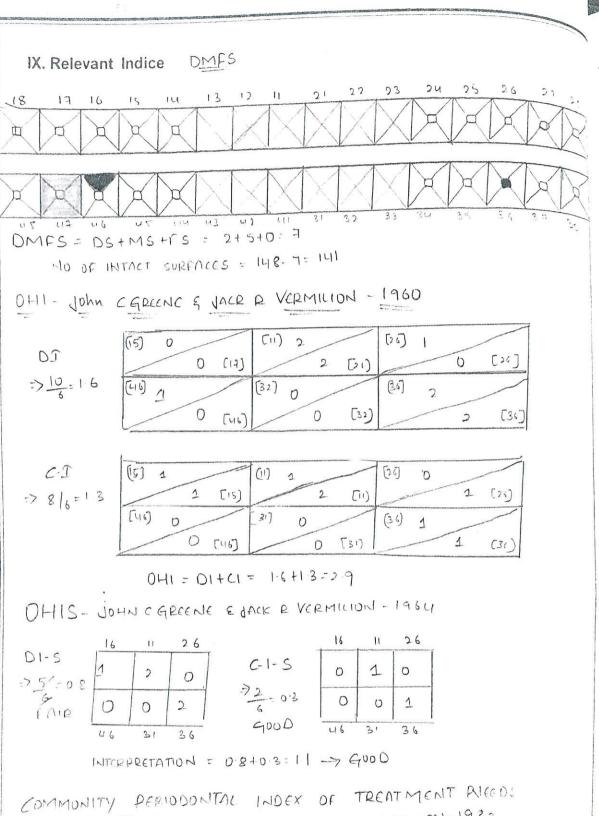
DMFT = DT+MT+FT

= 2+1+0 = 3

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MAHABUBNAGAR



10年世界

TREATMENT HOEV CPIINDEX 26 Musuch 0 0 D TNO TNO TNO PRINCIPAL SVS Institute of Dental Sciences U 0 . TNO TNO TN, MAHABUBNAGAR 45 31 46 31 31 CB: 5 120=5 cp. -1

Class 1 Quital Caries of Geronday Dental Caries 16 Chronic generalised gingwith Dentinal hypomenitivity X. Provisional diagnosis: XI. Investigation: 10PA-16 Jeronday Dental Caries 16 Class - Dental Carries 51 XII. Diagnosis: Denten hypurausitivity XIII. Treatment Plan: cheonic Junualized gung witis - Adulie patient to boush twice daily with soft sistles - Advise to Vist dentist - Guy 6 months, - Advise patient to change brush Every 3 months. Advise Lensensitzing paste & Advise to Quit Andrés Alcohol SECONDARY LEVEL: Adrised Oral prophyland Advised Ristoration (GIC) VEL:
Addilie suplaument of mining teth of =t

Ethis by FPD | RPD | implant. TERTIARY LEVEL:

ORAL HYGIENE INDEX

Name: Naum Jathima

Age/sex: 31/ Frunti

Address: Mahasusnagai
Chief complaint: palual Complaint of pain in hu hower hift back tooth
Ligion Ring | Week

Oral hygiene habits:

Oral hygiene aid used: Tooth brush & paste 1.

Method of cleaning and frequency: huizoutal & one daily 2.

Frequency of changing toothbrush: 2 months (flaming of bristles 3. 4.

Any other oral hygiene aids used: 5.

8765 4321 123 45 67 8765 4321 123 45 67 Teeth present: 30

Debris index John (Geam & Jack & Vamilion 1960

Deplia mack	V	/
	[[1]] 3	(26) 2
(16)	0 (11)	2 [26]
	[31] 2	(36) 1
[E16]	1 (31)	2 (36)
1 (46)		

Score:

Calculus index

		[26]
1 (16)	3 (11)	1 (6)
	(31) 3	(36) 0
(66)		Santa sanarana sananan sananan sananan sanan

Score:

OHI Score= Debris score + Calculus index

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ORAL HYGIENE INDEX (simplified):

Debris index	John Chrime	E don't R Vorm	lion - 19
16	11	26	
١	3	2	
J)	2	
46	31	36	

Score: 15 = 16 dair

Calculus index

16	11	26
l	O	l
. 1	3	1
46	31	36

Score: 7/6=1-3 fair

OHI Score = Debris score + Calculus index =7 1.6+1.3=2.7

Interpretation: Fair

M

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ORAL HYGIENE INDEX

Anjanyulu 45/Male

Age/sex: Us | Male

Address: Venuchiqu Village, mahabubuagar

Chief complaint: palitul Complaint of pain in his happen Lift fruit tooth

in habits:

Ligion Bine 4 days

Oral hygiene aid used: Tooth brush & pasto 1.

Method of cleaning and frequency: hosizontal & once daily 2.

Timing before/after meals: Byon muls 3.

- Frequency of changing toothbrush: 4 months (flaring of bristly 4.
- Any other oral hygiene aids used: 5.

Teeth present: 27 854321 1234567

Debris index

John C Grune & Jack & Vamilion 1960

(5) 1_		(ii)	0		[26] 2		
	1 (15)		/	(117 0		1	[26]
(41) 0		[31]	0		[37] 1	/	
	1 [46]			1 [31]		1	(34)

Score: 9 = 1.5

Calculus index

				(26) 1	
[[8]		[1]		(, 9)	1 000
	0 [15]		0 (11)		
r :		[31]		[3-1] 0	
189 4		0	2 (1)	/	0, (31)
	25417		0 (31)		•

Score:

5 = 0.8

OHI Score= Debris score + Calculus index

penumber

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ORAL HYGIENE INDEX (simplified):

Debris index John C Grun & Jork R Vamilion - 1964

18 11 26

1 D 2

0 D 1

46 31 367

Score: $\frac{4}{6}$ = 11 $\left(\frac{1}{6}\right)$

Calculus index

16	11	26
1	O	1
1	0	0
46	31	367

Score: $\frac{3}{6} = 0.5$ Fair

OHI Score= Debris score + Calculus index → 05+11 → 16

Interpretation: FAIR

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SILNESS AND LOE PLAQUE INDEX (1964)

			LINUEX	(1964)
Name:	Jacketta			
Age/sex:	3 remai			
Address:	3 Temali Siddipet t: Gener	Lot		
Chief complaint	t: Gener	ial chult-up		
Oral hygiene ha	abits:	•		
6. Oral hygie	ene aid used:	colh Brush		
7. Method of	f cleaning and fre	equency: how	ortal foun	daily
	efore/after meals :	1		
9. Frequenc	y of changing toot	thbrush: 3 mo	ulh:	
10. Any other	oral hygiene aids	s used :	18 5-7	
Teeth present :	$28 \frac{7657}{750}$	4321 1235	67	
16		12		24
000		000	Ø	0 0 0
)	D	U		
44		32		36
	0 - 52	000	T = 0 ?	0 110
Score:	0.0 6 = 0		. LV	

Interpretation:

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SILNESS AND LOE GINGIVAL INDEX (1963)

Name: Valiya Begum.

Age/sex:

50 / Fimale

Chief complaint: patient complaint of hoosening of all tooth sense smouth

Oral hygiene habits:

Oral hygiene aid used: Tooth brush 16

- Method of cleaning and frequency: homizontal & once daily 17
- Timing before/after meals: Before meals 18
- Frequency of changing toothbrush: 4 mouths 19
- Any other oral hygiene aids used: 20

Teeth present:

28

8765 U32 1 23 U578 8765 U32 2 3 U567 8

16

_		-
2	12	1.7
	<u></u>	

12

_	2	2
2	2	2

24



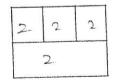
44

	-	0
2	12	1
		1

32

2	2	12
-		
1		

36



Score:

Interpretation:

MUDERATE , AINGIVITIS

RUSSELL'S PERIODONTAL INDEX (1956)

	al	010
. Iamp'	Eshway	anning
Name:		1

Oral hygiene habits:

18	17	16	15	14	13	12	11	21	22	2 23	3 2	24	25	26	27	28
	6	0	О	0	0	0	0	0	0	0	0	0	6	X	0	
				0	n	8	8	8	O	D	0	0	0	0	0	
48	47	46	45	44	43	42	41	~ 4		2 3	3	34	35	36	37	38

Sum of individual scores =
$$\frac{36}{30}$$
 = 1.2

No. of teeth examined

Interpretation:



RUSSELL'S PERIODONTAL INDEX (1956)

Name: Valiya Bıgum

Age/sex: 50 Junale

Address: Mahabubuagar

Chief complaint: Patient Complaints of Loouning of all toeth Sing Twonth

Oral hygiene habits:

31. Oral hygiene aid used: Tooth bunk

32. Method of cleaning and frequency: homental & Dun daily

33. Timing before/after meals: Define meals

34. Frequency of changing tooth brush: 4 moulh

35. Any other oral hygiene aids used:

Teeth present: 28

																ž.
	18	17	16	15	14	13	12	11	21	22	23	}	24	25	26	27 %
	0	2	8	2	8	6	8	8	X	8	\$	8	8	X	8	5
22											***********					
	8	8	8	2	8	8	2	X	X	8	8	8	8	8	3 0	10
	48	47	46	45	44	43	42	41	31	32	3	3	34	35	36	37 8

PI Scores=

Sum of individual scores = 192 = 7.07

No. of teeth examined

TERMINAL DISCASE

COMMUNITY PERIODONTAL INDEX(CPI)(1994)

Name:

Valiya Begun 50/funale

Age/sex:

Address:

Mahasusnagae

Chief complaint: pateunt Complaint of howening of all teeth Show 4 months

Oral hygiene habits:

36. Oral hygiene aid used: Looth baush

37. Method of cleaning and frequency: housontal & Dundaily

38. Timing before/after meals: before meals

39. Frequency of changing toothbrush: 4 moults

40. Any other oral hygiene aids used:

Teeth present:

28 87654321 234578 8765432 2345678

CPI Scores

17/16		
	3	4
		T u
U	3	
		36/37

CP3 = 2

CPu= 4

Loss of attachment scores

17/16	11	26/27
		2
2		2
2	1	
47/46, 3	1	36/37

INDEX(CPI)(1994)

Name:

Age/sex:

Nagaraju Pallounda + 28 Male

Address:

Chief complaint: patient Complaint of pain in bis Upper right bayle oral hygiene habits:

Tooth Brush

42. Method of cleaning and frequency: hougontal motion Eonie daily

Byone Meals 43. Timing before/after meals:

44. Frequency of changing toothbrush: 4months

45. Any other oral hygiene aids used:

Teeth present: 32 87654321 12345679

CPI Scores WHO + FDI-1982

17/16	11	26/27	
		1	Code, = 4
1.	O	0	Coact
47/46	31	36/37	

Loss of attachment scores

11 17/16

26/27

	3	
TNI	TNI	N,
47/48 3	TNO	TN0
41/79	λ	SV

3 Institute of Dental Sciences MAHABUBNAGAR

TJ: 4.

Name:

Age/sex:

Address

Chief cor

place/L

Source

Duratio

History

History

Clinica

Descr

Dean:

DEANS DENTAL FLUOROSIS INDEX

Name: Al Naish Age/sex: 34/Malc Address: Mahabubnagar Chief complaint: patient Complaint of divolvention of twoth sine speas
Place/ Location of living from birth to 8 years of age: Mahasusnagar
Source of drinking water: Well / Bore well / Tap / River / Any other
Duration of exposure: 5 years
History of usage of others forms of fluorides:
History of fluorosis in other family members: Clinical examination: Librate opaque areas in Evamel of feeth are more formula of feeth as much as much as much as solved teeth. Description of enamel mottling:
Description of enamel mottling:
Deans Fluorosis Index Score: 2

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DEANS DENTAL FLUOROSIS INDEX

Name: Nathur?
Age sex: 24 demak
Address: A faliabularga Fodangal Chief complaint: patient Complaint of direction of tooth since 10 years
Place/Location of living from birth to 8 years of age: Kodangal
Source of drinking water: Well / Bore well / Tap / River / Any other
Duration of exposure: 10 years
History of usage of others forms of fluorides : No
History of fluorosis in other family members :
Clinical examination: All Surface teethan Effected boom staining is Description of enamel mottling:
Description of enamel mottling:
Deans Fluorosis Index Score: 3

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DMFT/DMFS/def /defs INDEX Name: Ayfanyulu Age/sex: 45 male Address: Vinuclija Village Address: Vinuchiza Village Chief complaint: palut Complaint of pain in hu upper front tooth ngion Chief complaint: palut Complaint of pain in hu upper front tooth ngion Oral hygiene habits: 6. Oral hygiene aid used: Tooth bush 7. Method of cleaning and frequency: housened & Duu daily 8. Timing before/after meals: before meals 9. Frequency of changing toothbrush: 4 months 10. Any other oral hygiene aids used: Teeth present: 27 DMFT INDEX 53 52 55 54 26 27 28 11 21 D M D 36 37 38 81 71 72 Caries Experience: DT+MT+FT = 3+1+0-F DMFS INDEX 26 27 28 DS+MS+F3 : 5 + 12-13=

Caries Experience

E'S OF INTEST SORFIES

DMFT/DMFS/def /defs INDEX
Name: Valiga begun Age/sex: Go finale
nge/sex: Go finale
Address: Mahasus nagar
Address: mahasus nagar Chief complaint: patunt Complaint of hoocening of all trith Schut 7 moult
oral hygiene habits:
Levaiono aidusod: lette levale
12. Method of cleaning and frequency: houghtal & Dundall
13. Timing before/after meals: before meals
14. Frequency of changing toothbrush: 4 mouths
athor oral hygiene aids used:
Teeth present: 28 8765432 2345638
Teeth piesent. 87 65 432 23 45 6-18
DMFT INDEX
55 54 53 52 51 61 62 63 64 65
18 17 16 15 14 13 12 11 21 22 23 24 25 20 27 28
17 16 15 14 43 42 41 31 32 33 34 35 36 37 38
48 47 46 45 44 45 42
OT+ MT+FT: 3+0+0: 3
Caries Experience:
DMFS INDEX
55 54 53 52 51 61 02 00 24 25 26 27 28
18 17 16 15 14 13 12 11 21 22 25 2.
31 31 32 33 34 35 36 37 38
48 47 46 45 44 43 42 8VS MAHABUBNAGAR 85 84 83 82 8VS MAHABUBNAGAR MAH
Caries Experience DS+MST GURFACES =
NO 0F 17

The second of the second secon

Service and the service of the servi

WHO ORAL HEALTH ASSESSMENT FORM [994]
I the standard form for all oral health accessment is designed
for Collection of all the information needed in planning oral area
for Collection of all the information needed in planning oral area Services and thoroughly monthsing of & explaining of - Encerning Com derices.
darres-
The form Indude the following & center
Qummay Lautification number
2) Genual Information
3 - Entra Deal - Enamination
(5) Onal murora
@ Evanul opacity Phypoplasia
(F) Deutal flurosis
(9) CP1
3 hors of Attachement
(1) Deutition stains & treatment
1 prosttulie Status
(12) Prosthelle med
(13) Dentofacial anomalles
(4) Need for Immediate Care & gifemal
A Notes
This forms can be used for Oureproperticulary as well as
This forms can be used for Duvering Dent Children as well as Abults. SVS Institute BNAGARILDREN as well as

Notes: Topically Applied Houses is used to duribe those Jelivery dystems which provide fluoride for a local chemical grantion indications: Caries active Individual. children shortly after periods of tooth Suption respecially those who are Thou who takes medication to demace salivary flow and or have securived gadiation to head & Neek. After periodontal Surgery when roots of teeth are Exposed. patients with fined or gemorable prosthesis and after placement or suplacement of restorations. - patients With Eating disorder or who are undugoing a change in life Style which may Effect Eating or enallygrene hasits Conducive to Mentally and physically challenged Individuals. Types: - 1 professionally Applied Huorides: 1. Fluveide Vaenishes, Stumphat 2. Sodium fluoride Neutral 3. Channous Humide 14. Acidulated phosphate fluoride 2. Self-Applied Housedes: _ dodium fluveide 1. Dentufius Januar fluoride - monofluro pho i phate Amune fluoride SVS Institute of Dental Sciences stitute of Denres Aphoside Mouth Rives
MAHABUBNAGA Phoside Mouth Rives 3. fluvide Gels.

echiniques Al millar Appointment plush on first should with against presidents isolated with collon follo & direct with Compressed 215 >> / Mot applied with collon lipped application and allowed it oby to a minutes & upont du soch segment > 1/ and, 3rd & with fluoride application schooluled at interval of on well -> Recommended at Ages of 3, 7, 11 & 13 years, Counting with Caption of different groups of primary & permanent deeth. 2. Muhlus technique [8.]. stannous fluorede -> Each tooth Suface is cleaned with pumice of other devial change Agent for 5-10 duonds. > Touth are isolated and defed with all -> SuFz is applied bring the paint on technique and colution type to 4 minutes. Repeat application are made Every 6 months of more fuguently of patient Suscipliste to Carles. 3. Brudevold technique (APF gd) -> prefued method - Aqueous preparation (point on tehnique) & get [tray -> Recommended at 6 0112 months Intervals. - Oral peoplylaxis is done and teelth are isolated and deg. Adisposasti fram lined tray is preferred. After trays are pland Saliva Ejector is used to Evacute the stimulated saliva and -> Reapplied Every 15-30 Seconds as to trep the teeth moist with Euces Huolide. fluoride solution throughout the four minute period palient should be told not to swallow the get but to Emit slight Prissure using cheeks and longue as just with the Liting torces

The fluoride get should be in amounted from the principle of Dental Sciences of Minutes

Scalant "A diesuce Scalar is material that is plant in fit in dissures of teeth in order to prevent or arrest the divelopment. dental Carles" [Empran Academy of pediable Dentedry) Pits: Small pin point depressions located at junction of development dissure hong clifts between Cusp or ridges. Type of fissures OV Type D'U'type @'Iktype @ Invuted / type @ 1'40 dassification of Scalant:

1. Resimbased Scalants @ Based On Curing method: first generation: UV light Basid on ponume Gerand generation: self Courd ordning Course

of filler filled

Lunfilled. Jourth Generation: Hunside-whening to a

Co Bared on their to (e) Bared on their transluency: * Opaque + Transpor * Transparent 2. Glass lonomes dealants 3. polyacid modified rulu band bedonts. Steps: -> Polish the tooth Surface. -> check Declusion -> Isolate and day tooth surface -> follow-Up [Ricall and -> Acid Etching. Repair) -> lalaching and during. -> I solate and day the footh. PRINCIPAL -> Gealant placement and Evaluation MAMABUBNAGAR

COMPREHENSIVE HEALTH CARE

Notes:

Comphiensive health Care is meeting of arcumulated deutal needs at the time a population group is taken into the Program (witeal Care) and detection & Correction of new houments of deutal direction on semiannual lov) other periodic basis.

* priventive measures asmed to minimize disease are put of the Comphensive dental Care.

* Duvius are provided not only to Eliminate pain & infection

* Restore Serviceaste teeth to good functional form * Replace missing teeth

* provide maintainence Came for Control of Early husions of deutati disease.

* Provide prurentire masures / Educational & other wire

Co that population - Enpirience a lower privalence of discard Dental Care from INLOMB TO FOMB , Ithis Comphrensive dental Care Per true Sense.

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CAMP (A REPORT)



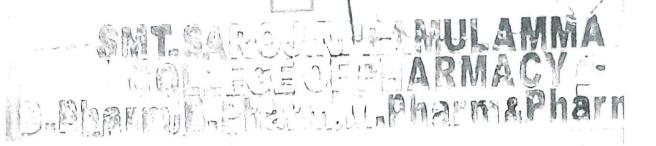


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Lat 16.757202°

Long 78.04948°

15/12/23 03:38 PM GMT +05:30





Mahbubnagar, TG, India

Shah Saheb Gutta, Mahbubnagar, 509001, TG,

Lat 16.741990, Long 78.004700 06/1572023 12:26 PM GMT+05:30 Note: Captured by GPS Map Camera

with safety muhanism that automatically stops addition of florido

of the flow of Water through the treatment plant is suddenly 2 Pminished The apparatus should spurate between 20/ 8 80/ of total capacity In Each fluoridation System, autistofilm machine should be installed in pipes that distributes fluorides entuing distribution dystan * Houride Compounds used. a) fluorspar (b) Jodium Huonide c. silie fluorida d. Jodium silico fluoride e. hydroilico fluoride. + Ammonium silico fluoride Types of Equipment: Principle A 41. Caturated solution of sochum fluoride is produced & (9) saturator System: lyected at desired Concentration of Water distribution source with aid of pump. - Wodium Auskide Cor) silves fluoride in John of producti Introduced into dissolving beam with aid of automatic mechanism to Introduced into dissolving beam with aid of automatic mechanism to Introduced into dissolving beam with aid of automatic mechanism to Introduced into dissolving beam with aid of automatic mechanism to Introduced into dissolving beam with aid of automatic mechanism to Introduced into dissolving beam with aid of automatic mechanism to Introduced into dissolving beam with aid of automatic mechanism to Introduced into dissolving beam with aid of automatic mechanism to Introduced into dissolving to automate according to a supply of fluoride according to automate according to a supply of according to a supply of according to a supply a of Water to be delivered unwerth principle - Volumetrie pump punottentestitute of portal sciences C Volution freder

Venturi fluoridator System _ It is non-electrical, system which was developed by JN-keo - It is activated by flow of water in main water line. The tank Containing fluveide is made of clear acrylic thumsplassic and this enables operator to make a Visual inspection of herel of chemical, morder to explands hit. Caturation Unspension Lone This System was developed by Water and Dewage authority
of state of Rioaeandosul, Brazil. It Consist of an upside down Com changed with bag of sodium siluo fluoride through which Constant flow of The Wolution is Collected at top of horizontal perforated plastic pipe, which form outlet.

Munuly Science

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VISIT TO PRIMARY HEALTH CENTRE (REPORT) The Bhose Committee in 1946 gave Concept of PHC as a basic heart (with unit to provide as close to people as possible an Integrated audie and preventive health can to pural population with Emphasis on preventive & promptive aspect of health Care *A typical PHC Cover population of 20,000 in hilly, tribal 1941 difficult areas 30,000 populations in plain ana, with 4-6 bour tridos Observation beds * It acts as suferral unit for 6 dubuntres & sefer out Cases to Comm -unity health Centres * PHC may 2 types depending upon delivery case load: Type A-PHC. + OPD duvices - 4 hours in mouning 1 2 hours in afternoon (or) Evening. * 24 hours Emergency desince. * Leferral Ouvilles + maternal Echild health Cove including Jamily planning. + Management of health Education for prevention of Reproductive SVS Institute of Dental Sciences * Nutrainal health Sources MAHABUBNAGAR promotion of date desiring Water & Bash Wandstion it Adolucent health Care

- midical lumination of pugnancius using Mannual Vacuum Aspirations technique (Idher-trained pusonnel and the facility faists)
Vacuum Aspiration fechnique (Idher-trained puround and the facility faists)
faulty faists
- Uchool health childrens & appropriate heatment
- Oral health promotion and chukups
Appropreate referral on identification
- prevention and Control of locally endemis ducase like making,
- Prevention and Control of locally endemis du care like modan's, kalayar, papanere encephalitis.
Dirace Juvilleance and Control of Epidemics.
Collection & Repuling of Vital Events.
- Education about health Schaviour change.
Communication
Primary health Sentin - staft pattern:
Medical officer - MBBS -1
phaimacist - 1
Munic med wefe (staft nuice) - 3
Health Worker (fimale) [ANM - 1
flialth Educator - 1 mounts
Health Ariestant - PRINCIPAL Sciences Health Ariestant - (Male gvs Institute of Dental Sciences MAHABUBNAGAR
ffealth Hallstant (funde) 1 HV - 1

Ausuntant Cum data Entry operator -1 Laboratory technician - 1 Multeskilled John Worker - 2 Driver [suspect to availability - 1 of Vehicle Galitary Worker Cum watcham -1 Total =15 Pinnayhealth Centre = 6.2km 25 Villages 30,000 population Damarias 20,000 tribal defoculty areas

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VISIT TO SEWAGE TREATMENT PLANT (REPORT)
Triatment of Dewage is divided in to 2 stages.
1) primary treatment
1) primary treatment 2) Ociondary treatment.
\bigcap $I = 1$ 1.
Wolids are deparated from sewage partly by
Wolids are deparated from sewage partly by Summing Epartly by Wasimulation & Suspected to anomally digustion.
The Efficient to Ouspealed To amon
Layout Viwage Virens Dinnfeelion
Virens Direction
Grif chamber
Brimary dedimentation - anation -> Venonday sedimentation
slandge -
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SVS Institute of Denial AMAHABUBNAGAR

TEACHER FOR

Primary triatment. Donuning Dewage activity into (or) disposed on fined plastered through a midal Gerein, which Intereps lavage floating objection to prevent Slogging. -to allows settlement off heavy solids which present organic Grit chamber: enable to pass through it. Frimary Vedimentation: -It is auompained by use of large tank called primary sedimentation fant. Efficient from primary Sedimentation tank is detected have Accation tank from juther treatment Quidise d' Dewage is deposited ento Decondary sudimentation Dewnday Sidementation. tank, Where it is classified for 2-3 hrs. -This is followed by whidgs digistion & disposed of effluent PRINCIPAL SVS Institute of Dental Sale MAHABUBNAGAR

ORAL HEALTH SURVEY (REPORT)

* Basic Deal health Survey are used to Collect information about the oral health status & treatment needs of a Population & figurally monitor changes in levels, pattern ofdirace * There are Operific factors associated with the most Common oral

Ricase which have enabled to a practical economic survey sampling methodology to be defined , called path findul method

I The finder method is stratified cluster sampling technique, which asse to luclude the most Important population on subgroups Pkely to have diffuing disease herels.

* It also progresse appropriate no. of Outject in specific index age groups în any one locators.

+ In this way i dinically orderant information for planning in Obtained at Eupress.

Classification.

-path funda Ouveys can be classifued depending on no. of & type Sample sites & age groups Included.

Pilol Ourrey. H is one that Includes only one most import. Jut Dubgnoups like in population & only 1/2 under gnoups, usually la years & on other age group.

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Path finder Gurvey. It incorporate Sufficient informations sites to Come all Important subgroups of population that may change differing disease (v) treatment nuds and atteast of 3 of age of group 60 Indon ages. of the no. of & distribution of sampling sizes depend upon the Operafic Objections of study. The ferommended Index age groups & ager are 5, 12-15, of Outjects in each Tonoups to the Gramined range 35 - 44, 65-74 years min. of 05-50 for each cluster (or) sampling site, depending on accepted prevalence & Soverity of Oral disease.

PRINCE AL
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PROJECT WORK

IMPLANT MODEL!

Defination' Implant is prosthetic durice (or) Alloplantic material Implanted into oral House beneath muioral (or) purosteal trum and or within Bone to provide reference and Capport for fined and Runwast prostheris.

danification

1 Endomous Implant

2. Cusperiortial Implant

3. Transosteal Implants

Baccol on atlachement mechanism:

- Osseolutegration.

- fibrolutegration.

Advantages.

1. Designed to be permanent

2 presure the Bone

3. Donot damage the adjace

4. Look & feel like natural teell

5 Improves - Appearance.

6 Improves Spech & Sold Eileen

Bandon matulal.

1. metallic Implant [Ti, Ti Alloy], Co-cr, Mo Alloy]

2. Non mitallie Implout [Cuanie, Carbon].

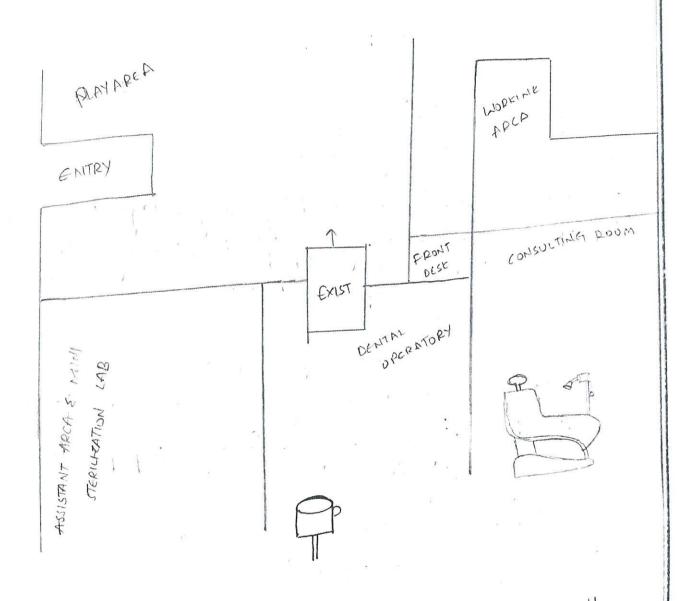


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SEMINAR PRESENTED
SAMPLING
Of adequate six and appropriate characturities. A dand is part of population is parent industries.
Advantages It reduces the lost of Investigation items significant no of promote allow Involved units of observation. It also thorough buvestigation of units of observation. It also provide adequate and indepth Coverage of sample units I deal Requirements of Dample. Goal Onentation 1. Size 6. Economy & Lost Efficiency.
- It also provide adquale and inacqui
Ideal Pequizements of dample. 1. Size 3. Measurasilatity. 6. Economy & Lort Efficiency.
1. Size 6. Economy & Lort Efficiency.
2 statity.
3. Efficiency 4. Size & Courage Gample setation is Accomposite had into ways g. Pandon delection. Cample setation is Campling method: Nonprobability Jampling 1. Duota Sampling
Cample setation is Gampling methods Nonprobability Sampling 1. Quota Sampling 1. Quota Sampling
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SETTING UP OF DENTAL CLINIC (REPORT)



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SETTING UP OF DENTAL CLINIC (REPORT) The Dental office Setting - Selection of Locations: The place for private practice is selected depending upon the no. of dentists practising in that place. It is preferable to move to a place believe their are fewer dentests preferrable to move to place While there are few doutests *In a town, which is Vuyounded by many villages, the location new busstops has great advantage as people from hearby Villages Can Come Easily for freatment. Gelection of Building. It is better to select dental office in a new building when an old building is celeuted one may face Cutain situation like: + old building has dangend hakage, Improper elubrical Insulation gnounding etc. * The owner of building may decide to demolish the buildings Construct a new one (or) sell the building. Wesigning a dental office: - A Spacions waiting and work are with dental chair funits, X-vay goom plaboratory pusting plans when the strouted so Incorporated into

The (functions) functions in Reception must be durable resthelies,

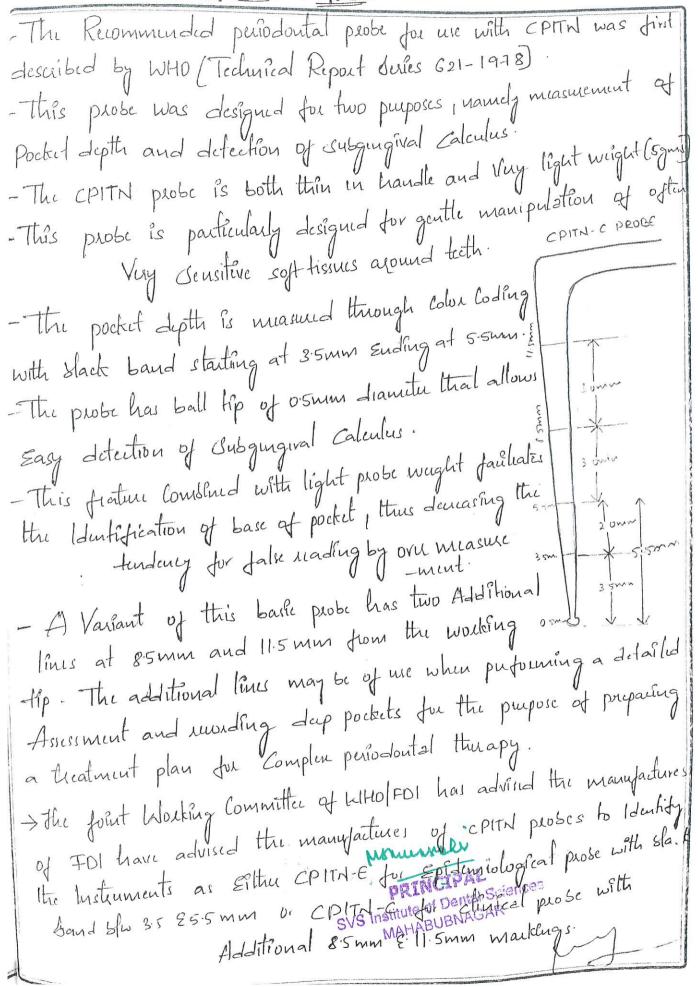
Confortable, otherwise partent may wonder if quantily of dental

work is cheap. + Yound proofing is Important Consideration in pediatric dental Management of Deutel office. - private practer Can be Cavied out in 3 tollowing Ways: O solo practise 2. Group practice Oolo practice using specialities A deutist may appoint a full fime scuptionist, deutal arrichant (or) 9 Two of the most desirable totats in dental team member are Warm 1 puson Who Can Work. Empathetie pusonality & Coquitive ability edefined Suplitude tool leauring & Capacity to Leave from part Experience in new situation. A training puied of 60-90 days is nuessary to ditumine whither's match between office needs & new Employed skills & personal style. -The dentist should have good Communication with his patient is should see that patient's are aware of temmings, weekly holidays ste. - If the patient fails to keep an appointement, he must be listed in Computer: financial aspects of deutal practice. -Maintain partient reward along with fee charged on day to day basis in Computer. - Maintain genords of all Expenses on day to iday basis - Approaches a chartered account at system of setting up profession Helf

- Start filling tan return from 1st year of practice deely since this would help in being how complement. Roduction & Collection: - Jos dental practise to opnate high quality dental treatment must produced in an efficient manner. - A production goal is Important for any Duccessive entupière. It détunine amount of money Ital must be changed to much buak team point ? Enjoy Cutain amount of profit. -office Supplies & deutal supplied amount for Considerable bulk of - propu control methods, helping in saving quites an amount of in gron lucoma. - An Inventory Control Card should be maintained for each stem

purchased. The Cord Contain Information such as name I address I phonen of each preferred wieder can afternative Vender & there Vender. - Thurstory Control & proper timing at purchases can Considuably reduce total cost of Supplies indirectly helading Musula PRINCIPAL SVS Institute of Dental Sciences

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ATRAUMATIC RESTORATIVE TREATMENT:
ART-minimally Invasive Care approach in preventing dental Canes and stopping it further progression.
and stopping it further progression.
Principles: 1. Removing Carious tooth tissue using hand instruments only. 2. Restoring the Cavity with restorative material that slicks to tooth.
2. Ristoring the Cavity with ristoralive malural mai such
ludications:
-only in Small Cavities > prosence of Gwelling or fished
to hand Instruments. > pulp of tooth Enposed.
- only in Small Cavities - In those Cavities that are Accessful man Cavity. to hand Instruments. - In uncooperative I fearful palents on - Footh has been parental for long - Found health Care meds
Special health Care nuds . the traction of and
Special health Care meds: - public health programs. - Public health programs. Carious Signs present.
- Biological Approach that uguin uninimal Cavity proparation that Common Cound tooth and less teamns.
Cound tooth and less teauna.
MIG OF THE MILE
- Simple infection Control and No Electrically definer Instruments are mud.
- Cost Effelive and fliendy processing
- mone accesible for all population groups.
Limitations. Hand latique from use of hand instruments over long pariod.
- Hand fatigue from use of hand instruments over long puriod. - Missoneption by public that while filling are only fungeray fillings. Matulalused.
Malulalund.
- Mouth Mirror - Cause in must spiliolium Jely
- Hatchet - mining pad the strips Explorer & Spatulevs managar Wedgy
_ Tweete - Cotton wool rolls - Gass lonongu Cement.

WORK COMPLETION CERTIFICAL

has completed the stipulated exercises in III B.D.S. Clinical Conservative Dentistry satisfactorily This is to certify that Mr. / Ms. Malaini Redde

Year of Admission (1st BDS): 2018.....

Signature of HDD

Verified by Staff

**Dartment of Conservative Gentato
& Endodonitics

**VYS 'nstitute of Dental Science

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DepartmentSeal

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Instrument list for CLINICAL POSTING [3rd and 4th Year]

Instrument list for III BDS

(All Hand instruments should be either API or GDC make only

For Typodont Exercises 1. 2. 3. 4. 5. 1 6. 7. Large spoon excavator 1 8. 9. GMT-mesial1 10. GMT - distal 1 11. 12. 13. Round Amalgam condenser 1 14. 15. 16. Ball burnisher (Anatomical) 1 17. 18. BP handle (small) & with No. 12 blades 1 handle and 5 blades 19. Steel cement spatula 1 20. Plastic cement spatula (GC company) 1 21.1 22. Glass slab Tofflemire retainer and bands 1 23. Ivory No-1 retainer and bands (Imported) 1 24. Dappen dish1 26. Cardide burs & Daimond point For Airotor Hand Piece i) Round Diamond Point (Size 009).....2 ii) Straight Diamond point (Size 009)......2 iii) Tapering Diamond point (Size 010 or 012).....2 iv) 24 bur2 B) For Contra angle Hand Piece Samil Round Cardide bur ______sys institute of D2 near Tapered Fissure Buru For Polishing Composite.....1

1 Box
27 Wooden wedges 1 Box
(Grand with small head)
1: (
and bandniege W&H or KAVU of NSK with on oping
Well MIDWEST or NSK
to keep all instruments

24 Disposable mouth masks
to a consider the first the state of Nylon)
A
37 Autoclavable cloth (green or blue)
38 Antoclavable Drane
39 Cotton Holder1
40 Kidney Tray2
41 Protective Eye Wear1
Extracted Teeth Exercises
Diamond disk & Mandrel for tooth sectioning (for Contraangle handpiece) 1
Extracted Teeth to be mounted on plaster base (14 teeth) (archwise arrangement)
Vertical sectioning: Maxillary 1st premolar
Mandibular molar
TATMITITE Process

Carbide burs & Diamond point For Airotor Hand Plece



411	the Instruments mentioned in III year Instrument list
Ins	addition to the above the following instruments to be brought for extracted teeth exercises.
1.	Root canal files - 25 mm length K - files - size 15 to 40
**	size 45 to 80 1 pack
	Barbed broach
2.	Barbed broach
3.	2 cc disposable plastic syringes
4.	Extracted teeth mounted on plaster base (14 teeth) archwise arrangement.
5.	Extracted single rooted tooth for Root Canal Treatment (Maxillary Central Incisor preferable)

Endo. Box ______(Autoclavable)

Endo. Scale_

S. Spreaders ____

(Autoclavable)

25mm length, Size 15-40

and SF14 straight bur

9. Endo access bur (or) no.4 Round bur____



III BDS Exercises

Exercises on Patients

1.	Class I - Silver Amalgam	-	15
2.	Class III (distal of canine) - Silver Amalgam		l
3.	Class III - Glass Ionomer / Composite		2
4.	Class V / Buccal Pit - Glass Ionomer	i en	3

Exercises on Extracted teeth

1.	Class I - Silver Amalgam		4
2.	Class II - Silver Amalgam		2
3.	Class III, Class V/Buccal pit - Glass Ionomer	-	2
4.	Class I - Composite	•	1
5.	Class IV - Composite	m	1
6.	Vertical sectioning of 2 extracted teeth	•	2
	(a) Maxillary 1st Premolar - Bucco - Lingual section	ing	
	(b) Mandibular Molar - Mesio - Distal sectioning		

Note: (Vertical sectioning to be done in the Pre-clinical conservative lab only using diamond disc or carborandum disc mounted on a Micromotor Contrangle handpiece)



WORK COMPLETION CERTIFICATE

This is to certify that Mr. / Ms. M. Hashni

has completed the stipulated exercises in IV B.D.S. Clinical Conservative Dentistry satisfactorily

Year of Admission (1st BDS):......

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Signature of HDD

-N-Parlinent of Conservative Lentless & Endoemnthes MS YESTITUTE OF DES Departure

Verified by Staff

IV BDS Exercises

Exercises on Patients

LX	CII	cises on I attend	
	1. 2. 3. 4.	Class IV Composites (Rubberdam mandatory)	4
Ex		cises on Extracted teeth	2
1.	Cla	ass II Silver Amalgam	
2	Cla	ass III or Class IV Composite (Rubberdam mandatory)	2
3.	Cla	ass II Inlay on Molar (Maxillary or Mandibular molar)	1
	_	Direct wax pattern, Investing, Cutting of Sprue, Metal tryin & Polishing to be done	
		by the student. (Only casting procedure will be done by the technician)	
4.	Ro	oot canal treatment in Maxillary Incisor (Tooth mounted on stone block)	
		Access cavity, Working length, Biomechanical preparation, Obturation and Access	
		cavity closure with Composite.	



Cavity Design's for Composite Restoration

cavity preparations for composite resins should be as conservative as possible.

conventional cavity preparation:

They are typical amalgam cavity preparation dusign with uniform depth, flat, floor, joint & retention growes in dentin. This design indicated on root surfaces & large class I & class I composite restoration.

Beveled conventional cavity:

It is indicated when composite resin is used to replace on Existing restoration with a conventional design indicates in class III, IV & V calcity restoration.

Modified cavity preparation:

They have scooped out appearance without definite interval line angles indicated for initial & Small Carious defects. Box only cavity preparation:

Indicated to proximal caries in posterior teeth when occideral surface is not modived.

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Stot cavity preparation:

Indicated for posterior teeth with proximal caries when access can be achieved from facial or lingues aspect.

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Steps in Cavity Preparation For Composite

clinical Techniques for composite recin restoration:

preliminary sleps:

1. local ancibedics: This is performed in most patients as

II reduces apprehens & salivation administering local

anesthetics makes potient relaxed & comfortable these

contributing to better operative dentistry, especially while

placing bonded restorations.

2. prophylaxis: Oral prophylaxis is necessary before Composite restoration. This will creak a operative site that is more respective to bonding pumic prophylaxis is recommonded to remove plague, solivary pellicle & surface stains.

3. shade selection: Selecting the appropriate shade of teeth is very essential to achieve optimum esthetic with compositeresing 4. Isolation: proper isolation as operative site is very important for composite resin restorations as contamination of saliva as moisture decrease bonding strength also physical properties of composite material may be affected. The best mans of isolation for composite restorations is by rubber dam.

Alternative method are cotton roll of saliva ejector.

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proparation assessment of occlusion has to be come out proparation assessment of occlusion has to be come out so that carrier preparation may be done a such away so that carrier preparation may be done a such away to keep margins away from area of occlusal coding

General Concept for carry proparation for composition.

1. Minimal Extension:

The preparation is kept as minimal & conservative possible only to extent for caries on defect & for convience form

2-Rulpal & axial wall of varying depth:

The wall need not be that & can be of varying depth.

3. Enamel level:

This is indicated in some callify preparation for better etchin bonding & to merge restoration with tooth.

4. But joint on root surface:

Cavosurface, margins on root surface should be 90.

5. Tooth preparation walls must be rough:

This is to increase the serrface area for bonding. Generally diamond abrasives are used to adhesive the margins.

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Kraffor & Rankow's laws of Access opening.

- · law of contrality: The floor of pulp chamber is always located as centre y touth at level of CET.
 - · law of concentricity: The walls of pulp chamber are always concentric to External arrace of tooth at bevel of CGJ.
 - · law of CEJ: The distance from External surface of clinical crown to wall of pulp chamber is some throughout crown ference of tooth at level of CET. The CET is most consistent repetable landmark for locating the position of pulpchamber
 - · law of symmetry: Except for maxillary molar the orifice of canals lie on a line perpendicular to a line drawn in a mesio distal direction across center of floor.
 - · law of wlour change: The colour of pulp chamber floor is always located at junction of walls & floor-
 - · law of orifice location 1: The orifices of voot canaly are always cocated at junction of walls & floor.
- . law of orifice location 2: The orifices of vout comal cire located at angles in floor wall junction.
- , law of orifices location 3: The orifice of root canal are located at terminus y root development fuin

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Access Cavity Preparation & Laws of Orifice Location

Goals of access cavity preparation:

- · Removal of all Carious tooth Structure.
- · Conservation of sound tooth structure.
- · Complete devooting of pulp chamber.
- · Removal of coronal pulp tresue.
- · location of root canal orifices.
- · Straight line access to root canal.

Clinical guidelines for a Access cavity preparation.

- I . Preoperative Considerations.
- A) Armam entarium for Access cavity preparation.
 - · Aront surface mouth mirrors.
 - · Arotor & slow speed rotary handpieces.
 - · Burs-Round carbide burs, diamond burs with round cutting ends, fissure carbide burs, extended long shank burs burs burs of mueller burs & LN burs.
- · endodontic spoon excavator
- Endodontic Explorer Eg- OG-16
- -Additional aids-magnification & illumination aids, vitrasonic micro
 openers & microdebriders.
- B) Assessment of occlusal tooth anatomy.
- -presence of an aditional cusp
- · Abnormality in the size & shape of tooth.

major principle of endodontic cavity loutline form. Internal anatomy



tooth dicheles external outline form. eige & shape of enduly carrily / canal preparation relates to size & shape of pulp chamber · Complicating factors:

· Rotated teeth /mal positioned teeth.

- -Tipping [mestal tilting of tooth.
- · Grossly decayed teeth
- . Teeth will full coverage vestorations.
- . Teeth with Extensive Calcifications.
-)-Radiographic assessment: The most important prevaquisite for sul access cavity preparation is having a sound knowledge of root card. anatomy & its variations visualisation of internal anatomy of took be done using preoperative perhapical radiograph.

II · Clinical Considerations.

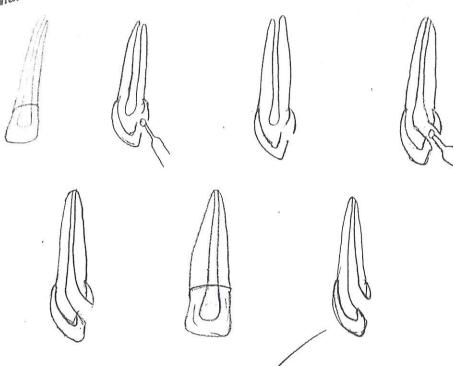
A) complete removal of corrious teeth str & other restorative making owhile preparing the access Cavity in a carrious involve took start removing the carious tooth str mens of location of ain lesion. This would invariably lead into pulp chamber.

· Hence in case of tooth with distal carrious tooth str access opening comences from distrib do mesial pulp chamber

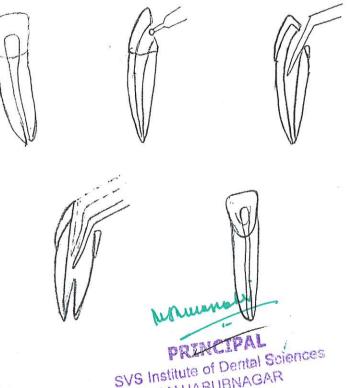
B) complete Deroofing & Removal q Dentinal shoulders: The overhanging roof of pulp chamber missirect instrument which result in ledge formation in caral tence complete denoting must be done to obtain unrestricted access to carrols will a round bur & working from inside out will accomplish this end. Removal of dentinate shoulds orifices will help in all properties of Dental St SVS Institute of Dental Science Areant blue orifices will help in alling

MAHABUBNAGAR Scanned with OKEN Scanner piagramatic reprasentation of access cavity preparation

1) Maxillary Incisor



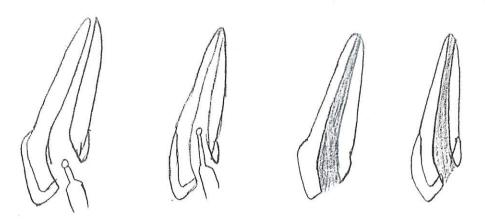
2) Mandibular Incisor



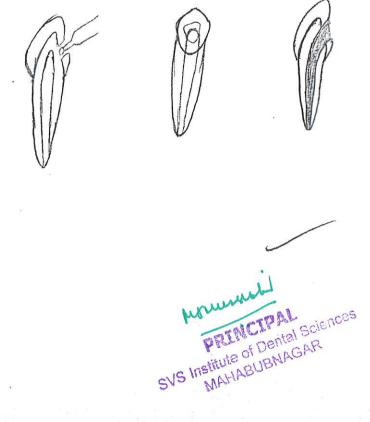
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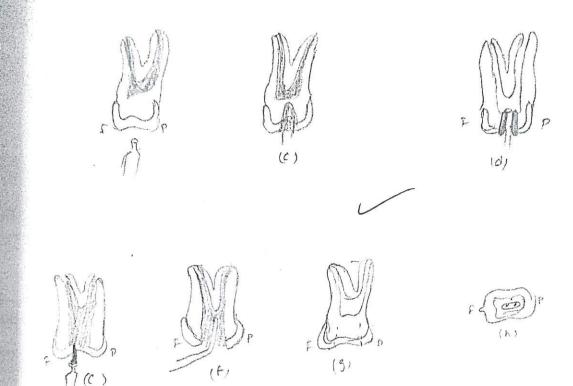
3) Maxillary canine



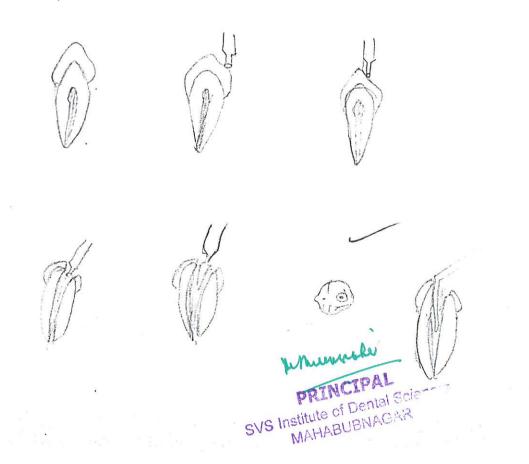
4) Mandibular canine



5) Maxillary Premolar

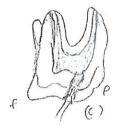


6) Mandibular Premolar



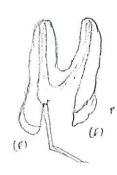
7) Maxillary Molar













8) Mandibular Molar



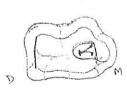






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Various Isolation Methots

Isolation from moisture: Direct method

pubber dam & isolation

, cotton Roll isolation q cellulose waters

. Throat sheilds

. High volume excavators & salva ejectors

Isolation from soft tissue:

Mirror & Evacuation lip retraction

Isolation from moisture: Indirect method

. Drugs

. comfortable position of patients & relaxed

· local an estusia.

2

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Rubber Dam Isolation in Detail

pll restorative & endodontic applications require mandatory ux of

- To achive the first porinciple of endodentic freetment a safe

Es aseptic operating techniques needs to be maintained.

reputation.

Advantages: 1. Dry aseptic field.

- 2. protects patients soft tissue from sodium hypochlorite irrigation & other counties medicaments.
- 3. prevents aspiration 9 endodontic instruments.
- 4. Improves access & Visibility.
- 5. Prevents contamination of root canal with brad microbialogic flora.

components of Rubber dam kit.

Rubber donn material

Rubber dami clamps

Rubber dam clamp carrying forceps.

Rubber dam punch.

Rubber dam frames

Rubber dam template.

wedget cord

Dental Silk floss, Rubber dam napkry.

only s damps are needed for applying the nubber dam to most teeth - for anterior teeth: UFQ

-for premolar teeth = 1+f1 q +1+2

- for molar 1 HF2 & HF a.A.

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Isolation Technique: 1-Anterior tooth isolotion: The dam is stretched a placed over incison placement of clamp The jow of clamp must rest on sound tooks str. palatally saw of clamp engage to troth gingival to anguly 2- Posterior tooth isolation: Darn is placed on rubber dam templates & took to be Bolated 15 marked thole is punched wing nubber dam punch. wings of clamp engage the dam through punched hade Dam is secured with rubber dam frame Dam is gently teased away from wing of clamp using ablunt hand Dental floss is plaised mestally a distally 3. Multiple tooth isolation: lesting & lubricating proximal Dam is strectched & passed Clamp is engaged using foreps. below teeth contact area with dental floss. jans must engage tooth gingiva to contour height socure dam on anterior check the stability of rubbers anchor dam is carefully dam with finger on clamp placed around clamp. bow Mumoh Dam is pushed over sono PRINCIPAL SVS Institute of Dental S.

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Write in detail about Access cavity preparation for maxillay central incisor

Avirage tooth length: The average length of this tooth is 23.5 mm.

pulp chamber: The pulp chamber of maxillary control incisor is located in center of crown equidistant from dontinal walls. It is broad music distally I with its broadest part incisally aligned. The pulp chamber usually follows contour of crown & has 3 pulp horns that correspond to developmental mamelons in young tooth. The chamber is ovoid mesodistally Division blw root canal & pulp chamber is indistinct.

Root & Root canal: The maxillary central incisor has one root with me noot canal. The root canal is broad labiopalatally, large & simple. In outline, canical in shape, & contrally located. A definite apical constriction is present in mature root canal. In cross section, canal is ovoid mesiodistally in cervical 3rd, ovoid to almost round in middle 3rd & round in apical 3rd.

Elinical significance: Although the majority of roots are straight (75%) may curve labially (on palatelly (14%) - Root canal usually follows direct of aurved root. palated & labial curvatures may not be seen in routine radiograph unless taken at different horizontal angulation.

· lateral canal may be present usually in apical 3rd.

lablal surface of root by maxillary control incisor lies under lablal surface cortical plate of roaxilla & may fuse withit. Beause of proximally of lablal root surface to cortical plate, fenestrations the

labial contical plate,

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The relationship blu appx of maxillary central more a servery plate of floor of matel country depends on height of face 4 length of root a weally, naved fosses of root apex are seperated sufficiently to that curutuge of granuloma lissue within the surrounding cancellous bore does not result in perforation of ploor of nasal fosses. In some patients apex of root is close to nasal floor.

Access opening. The shape size & coronal extension of pulp chamber are estimated from a diagnostic radiograph. Internal anatomy strong pulp chamber of maxilla central incisor. Lietetes shape & size of access opening.

· The enamel is perforated in center of lingual surface at, an angle perpendicular to it kenter of linguish with No. 2 round bur at high speed contra-angle after peretration of enounel, the bur is directed along the axis of tooth until pulp chamber is reached. A" drop of bur into Chamber may be felt if camber is large enough overhanging enamel & dentin & palatal root of pulp chamber are removed including pulp horns, with round bur in slow speed contra angle. by working from inside to outside following internal anatomy. · A gates - glidden drill of appropriate size or any other suitable orifing enlarger is used to remove palatal shoulder by working from inside to outside with light strokes. The patatal shoulder is not an anatomic entity Helf, but rather prominance of dentin created when polatal roof & palatal shoulder of pulp chamber in anderior tooth direct area access can be renified by placing straight end of endown Explorer into canal orifice. Explorer canal without impedance from the walkenginute of Derivations access prepared?

Define working length & Methods to determine working length

pulinition: Working longth is defined as distance from a coronal reference point at which cound preparation is obtained from a coronal reference point at which cound preparation is bould terminale.

And tomical considerations: Theoretically the canal preparation should extend apically to comendo-dentinal junction. This junction is located at or rear greatest construction of apical. Foramen The comen to dentinal junction does not always coincide with apical constriction is is located out -0.75 mm short of anatomical apex. Thus it clinically recommended to terminate instrumentation is obtained of 1.00 mm short of vadiographapex. Kuttler's study: The apical foramen does not normally exist of anatomical apex it deviates by 0.5-0.3 mm. This variation is more marked due to continuous deposition of comentum in older patients.

Terminologies:

Anothernic apex: It is defined as tip or end of root determined morphological, padiographic apex: It is defined as tip or end of root determined radio graphically.

Apical foramen (Major diameter): It is the main aprical opening of root conal . It is frequently centrically located away from anatomical/ radiographic apex.

Apical Constriction (Minor diameter): It is apical purtion of root canal having narrowest diameter.

Comentoderational junction: D) is the region where the dentin & armonum are unified. It is his pologic landmark.

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Radio graphis:

Radiographs plays an important role in chaning a shaping because it permits the operator to town visual emaptional internal troth str & perivadicular tissue. It is an exact road map of anticipated journey blu the access opening in to pulp chamber a apreal root foremen.

The clinican must learn to interpret or rather read a Radiograph to asist instrument selection for exploration by complicated root canal system.

Method of Defermining Goorkinglength:

I · Electronic apex locators.

II · Padiographic method 1. Ingl's technique

2. others. a) Best's method

- b) Bergman's method
- c) Bramonte's technique
- d) grossman's method.

3. Reithler's method.

4. x-ray grid method.

5. radiography.

III. Non-radiographic method.

1. Tactile

องที่มีเลิ้มให้สายเรียนสามารถสาย

2. Apical periodontal sensitivity.

3. paper point method. Mount

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Write in detail about ingles method of working length Determination

linical porcrequisites:

mowledge of average length of teeth . The setting of an instrument stop to a longth short of anticipated working longth for each comma is valuable in contining instrument to root comal to prevent trouma or forcing of debois a backeria into periradicular tissue

Instrument precurving: The desired instrument curvature is attained by grasping blade with gauge sponge & bonding instruments in a gentle slope. An instrument that aids bending tile approx has been introduced a known, as endoblender.

estable occlusal reference point. Anterior feeth - Incisal edge posterior teetn -> cusp fips

The reference point must be adefinite & reliable point (cr) surface to ensure Exactness in all subsequent measurment.

esilicone Stopper on file is set to these reference points & extent of like from bottom of stopper to tip of instruments is used to determine estimated working length.

These stoppers also value for added advantage because they do not have to be removed from instrument during sterilization

Clinical technique:

· Diagnostic (on Exploratory instrument usually No. 6, No. 10 is files. There instruments are flexible enough to follow not canal arrealists to follow into fine turnous canal exare known to be inserted through debris a tissue until they reach root apex. Initially the k-file is insirted into the rosot canal through access anily with slight motion to bypan any Obstruction I debris is the works Sciences along entire and length.

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The Estimated working longth is tept as I min short of longth of troth measured on radiograph. This is done to compensate for radiograph may distortion a for fact that miner diameter always present short of anaboured apel.

"The precormal enlargement of canal is completed with help of either only on larges/glidde drills. This step recommend before taking working longing in my

· A worting length instrumentation radiograph is taken to compare exact position of instrument in not canal.

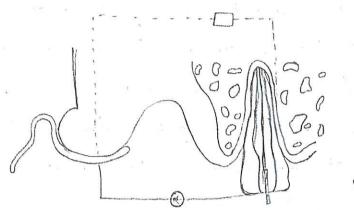
. It change of tactile sensation during exploration of root canal suggest that instrument is at apical constriction even though it seems short of estimated working length.

The ciorting length should be arbitrarly established 0.5-1 mm shown than radiographic canal length because the actual length of rooth is leg than radiographic canal length because image is apical, foramen is approx 0.3 mm short of actual root tip certain anotomical studies. has reported the CDJ situated about 0.4-0.7 mm away from root apar. Two length - determination radiographs may be necessary at times, one at normal angulation & other at 20 mesial (on distal horizontal angulation). The tridimensimally glained from these two views allows better visualization of the configuration of twoth root canal & its deminus. When two root canals are present in single root & g. musial root is mandibular molar of two root aligned, in same plane, such y maxillary first premolar, two radiographs from different angulations:

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APEX LOCATORS

currently an electronic apex locator is the most optimal & accurate method to establish the noot canal working length.



The working length is determined by comparing the Electrical resistance a periodontal membrane with that of gingiva surrounding tooth i both of which should be similar. A probe, such as tile, is attached to an electronic instrument with an electric Cord & is inserted through the root canal until it contains the currounding periodorital ligament when probe touches soft tissue 9 periodontal mombran, the electrical resistance gauges, for both gingiva & periodortal ligament would have similar reading. By measuring the depth of insertion of probe, one may determine Exerct length of root canal. The clinician should note that Electronic apex locators are not alternative to use of radiographs in endodontics but they are powerful & useful adjust to accurate clinical measurement of roof radiographs in the canal working length.

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classification of electronic apex locations:

First generation - resistance based electronic apex locator.

These are first generation of apex locators which developed boy resistance principle. They worked best in dry canals thowever the principle . They worked best in dry canals thowever the principle. 1 pus, pulpal fissue, blood, & irrigants lead to inquirate reading. The first locator based on this principle was root canal meter.

Second generation - Impedance based apex locator:

In order to overcome the possible root associated with vestilance bould appe locator, Inne introduced concept of impedance -based apex locators, sono Explorer aper locator. This device would indicate the aper when two impedance values approch each other. This apex location had to although with periodontal sulars prior to each use. This procedure was thing sensitive edachi o & emorprone.

Third generation - multiple trequency apex locator.

These apex locators determine by canal terminess as difference b/w the impedance values at two different frequencies of 18 5 KHz. This was introduced as endex apex locator.

Fourth generation - multiple frequency ratio-based apex locator. A Newer open locator was introduced that uses two wavelingths whose impadance could be compared as a rectio . These are superior to other apex locators in presince of fluids & Electrolytes, The other apex locator which follow the similar principle include proper IQ & element diagnostic PRINCIPALEAL. SVS Institute of Dental Sciences

Standardization of Endodontic Instruments

Ingle & levine's standardization of endodontic handingtoment.

Instruments chall be numbered from to to 100, the numbers to advance by 5 onthe to size 60 & they by 10 units to size 100.

This has been revised to include numbers from 6 to 140.

Leach number chall be reporestative of diameter of instruments in hundreths of a millimeter at tip; y no. 10 is 10/100 (on 0.1 mm of tip, 10.25 is 25/100 (on 0.25 mm at tip) & 110:90 is 90/100 or 0.9 mm

one working blade (flutter) shall begin at tip, designated site Do q shall extend exactly 16 mm up the shall , terminating at designated site Dib.

The diameter of Dis Shall be 32/00 or 0.32 mm greater than that of Do ey - a NO 20 reamer shall have a diameter of 0.20 mm at Do E, Diameter of 0.20 plus 0.32 (or) 0.52 mm at Dis.

The sizing ensures a const increase in taper of 0.02 mm for every instrument regardless of six

- · The tip angle of an instrument should be 75±15°.
- Destrument size should increase by 0.05 mm at De blu No. 10 g 60 eg No. 60 to 150.
- · No. 6 & 8 have been added for increased instrument relection.
- 'In addition, instrument handles have been color, coded for casier recognition.

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Components of Endodontes file: Toper: Taper denotes the permillimeter increase in file diameter trans the tip towards the file handle it is denoted either in numerical or procentile. Topered inshument help in preparing carals of wider dramen without over enlarging the Canal at working lingth.

Tip design: original stainless steel root canal instruments usually posses a sharp, cutting tip, thowever notary instrument currently are manufacture with modified non cutting tip as there noncutting tips cause less and transportations remove debois better than traditional instrument.

flute: It is groove or relief on the working of file which collects debris as file cuts through substract.

Chip space: The Chip space denoted cleaning effectiveness of instrument of an increase in chip space denotes improved ability to remove debut out g root canal.

Blade: It is working area of file & is surface with greatest diameter that follows flute as it rotates.

Cand: In certain file designs a surface projection axilla from central core of aiting edge blu flak.

Pitch: It is distance from one cutting edge to next. A file with chart pitch will have more spirals than File with larger pitch. Pate angle: on perpendicular sectioning of a file angle which will Helix Angle: It is the angle the authorited grant with long all systems with long all systems.

Classification of Endodontic Instruments

plassification of endudantic shaping instruments.

Group I: Hand-Operated endodontic instruments

- 1. Barbed broaches & rasp.
- 2. K-type reamers & files.
- 3. Hedstroem files

Group II: low speed stainless steel endodontic instruments

with latch-type attachments

- 1. Gattes- Glidden drills
- 2. peeso reamers.

Group III : Ultrasonic & sonic instruments

Group IV: Engine-driven Nickel-titanium endodontic instrument

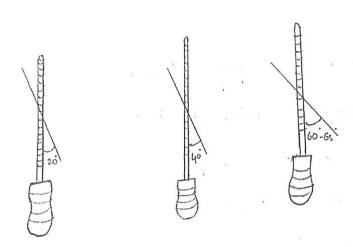
- 1. Rotary instrumentation
- 2. Reciprocating instrumentation
- 3. canal adaptive instrumentation

a) self adjusting file (sof)

6) Ap-endo shaper & finisher.

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Various Filing motions

endodontic hand instruments can be employed in any one of following motions:

Reaming: The instrument is used with a clockwise rotating pushing motion.

Imited to a quater -to half-turn & disengaged with a mild pulling motion

when bound.

Filing: filing indicates a push pull motion with Instrument. The instrument is placed into coural act desired length, pressure is exerted against conal wall, a rare of flutes rasp the wall as instrument is withhow without turning pressure is mainteined throughout procedure watch winding: The instrument is reciprocated back & forth in clockwise countriclock wise motion & than retracted for more debris.

circumferential filing:
following cleaning & shaping of noot canal with a small reamer &
reaming the root apex the same size file is inserted into root canal
to apex, laterally pressed against one side of canal wall & withdrawn
with pulling motion to file dentinal wall. The file is reinserted &
procedure known as circumferential filing.

Anticurvature filing: This motion was described by abouters & Jostras. The fureal wall of canals in mestal root of molars is prove to prevent this error or articurvature filing is advocated where in top of the handle of instrument is pulled into curvature while the shank end of nandle is pushed every from the inside of curvature. This motion balances the cutting flutes against part of nout.

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Schilders Objectives of Cleaning & Shaping

Mechanical Objectives:

should have a continuous tapering comical shape with the narrow cross-sectional diameter apically & widest diameter commity in walls should taper evenly toward apex & should be confluent with access cavily.

To give the propared root comment quality of flow shape that permis plasticized gutta-percha to flow against walls without impedance. Should keep the apical foramen.

Biologral objectives:

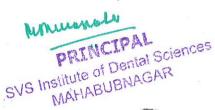
· Continement of instrumentation to root themselves.

. Ensuring that necrotic debris are not forced beyond foramen.

e Removal of all fissues from root canal space.

·creation of sufficient space for optimal obburations of radicular space.





glep back techninque (Draw diagram) gier step back preparation of root conal the canal is enlarged first in the appeal 3rd to at least ano 15 or 30 instrument & pull each consecutively larger root canal instrument is used for shaping the middle third & coronal part of root cand. ichaning & chaping of root canal begins on completion of gross debridement à determination of exact working bright, 2. The size to file followed by size is file is inserred directs through the canal vrifice to deserved length. The file is engaged against the dentinal wall with lateral prossure a is withdrawn. 3. The apical third is serially enlarged to develop an apical stop & size 25 file, 4. The next stage is step-back poreparation which achived by

increasing the size of files & by decrossing the langth to Produce coronal taper

5. To prepare, the body of a canal each sequentially larger file is inserted until it makes unforced contact with the walls g canal & the walls are filed circumferonatially once at this viceo length.

6. The patency of apical canal segment which has been enlarged to size 25, must be ensured by continued use of this file offer each step back.

Monument PETMETRAL SVS Institute of Dental Sciences MAHABUBNAGAR

7-circumsterratival filling using the moster apical file can be used to smooth out a turther refine the steps created by step back.

Thes preparation allows an adequate amount of commal space in that canal for Cateral compactions.

- 8. All instrumention is performed in combination with capious imagetion to prevent blockage of canal with dentinal (on pulp debris, but cautiously to prevent forcing of irrigating solution beyond the apical foramen.
- 9. Instrumentation is finished when walls are smooth clean when preparation shows continuous taper in an apical direction.

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crown Down technique (Draw Diagram) The concept of Ars. Instrumenting the coronal third of root conal before apical chaping was first advocated by Goerigetal! fraun Down (step-down) technique: 1. patency of canal is first established with a size 8 or lox file. 2. This procedure involves the pore paration of coronal two thirds of conal using Hedstreem files of SIX #15,#20,#25 to 9 working length depth of 16-18 mm or to point where the 3. This is followed by flaving the Coronal segment of canal with the help of gates-Glidden drill was 2 & 3 Sometimes No.4 with each drill being used sequentially shorter. care should be taken in drecting gates drill from the forcation to avoid strip perforation 4. The next phase involves apical instrumentation with smally size 10 or 15 k tile followed by working length determination. 5. A large file is then placed in canal to level of sinding

the canal is instrumented using worth winding motion ontill resistance is encountered.

Onthe process is repeated with sequentially speakerstily onthe working length is reacted institute of Donard MAHABUBNAGAR

7. The gpical partion of conal is now enlarged to appropriate MAF six. which would vary from canal to canal & from truth too troth.

8. The final canal toper is accomplished by the MAF used in a circumferential filling motion.

Modifications:

The three modifications of this technique are as follow

- 1. crown down presureless technique
- 2- Double flare technique.
- 3. Balance d force technique

Advantages:

- 1. Shaping of conab is subjectively easier than stop-back technique.
- 2. The removal of coronal obstruction allows removal of bulk of tissue. debris & microcorganism before apical shaping.
- 3. This technique minimizes extrusion q debris through aprical foramen, tureby preventing post operative.
- 4- It allows better access & control over apical enlarging instrument thus decreasing incidence of 3 ipping.
- 50 allows better penetration of imagants
- 6. worting length is less likely to change while employing the

DESCRIBE VARIOUS IRRIGATING SOLUTIONS

It is important to appreciate that while hand & rotary instrumnt ation produce shape , it is the glingithan irrigant that clean & disintent root camb system.

Imigant not only are important for removal of debris a dental chips produced during shaping & cleaning but also are of civil critical importance in eradicating internadicular con microbial infection.

classification of root canal irrigants:

. Most commonly used migant

-sodium hypochlorite (Naoca)

- Ethylendiam metetra acetic acid (EDTA)

-chlorhexidine digluconate (CHX)

other recently introduced irrigants.

- -1-ty droxyethylidere-1, 1-bisphosphomak & also called as Etichonic acid
- Rodine potassium Rodide (IFI)
- Antibrotic containing inigants
 - · MIAD
 - · Tetraclean

- QMIX

Objectives of migation:

- Remove debris created during shaping of not comal
- hubricate root canal.
- Dissolve organiz & morganiz tissue.
- Remove & prevent formation of smear layer.

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Endodon's Ideal requirements of an · Anti microbial activity. - Mechanical flushes out debris from root comal. -Nontoxiz & non irritating to periapical tissue - Dissolves nenotic & vital pulp tissue. -serves as lubricant - Easy to use & Pronomical Most commonly used irrigants: . sodium Hypochlorite: sodium hypochlorite a reducing agent is a clear straw colored solution containing about 5%. of available chloring. It is most widely used migating solution History: Dakin (1915) : recommended 0.5%. Na Dall for trouting wounds during coolidge (1919): Introduced Nabel in endocontics Mechanism of action; Nauch on ionization produces hypochlorous acid & hypochlorite lon they are responsible for antimicrobial activity of NaOch. Destruction of bacteria take place in two phase. 1. peretration into backertal cell wall. 2. chemical combination with protoplasm of bacterial cell & destroption of DNA Synthesis. Acc. to estre la ct mechanism of action of sodium hypochlorite 1. saponificiation reaction

2-ammoacrd neutralization

3. hypochlorous acid formation

4. chlorammation reacting

· High alkalme p4-711

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DESCRIBE VARIOUS IRRIGATING SOLUTIONS

The pulp dissolving ability of this irrigant is useful during the chaning & shaping of maccessible areas such as isthmus region & c-shaped canal.

Draw back of NaOch:

It does not remove the marganic component of endodontic smear layor.
It has an unpleasant taste.

The solo should be kept in cool place away from sunlight. Ethylundiaminetetro acetic acid (EDTA):

The chelating agent ethylenediamine tetra acetic acid commonly colled EDTA was introduced into endodontic proceduce by Algorid - dellay.

Mechanism of Action:

FOTO EDTA is relatively nontoxic & only slightly irrigating in weak solution. It form highly stable soluble, metal chelaks in combination with heavy metals lon alkaline earth ions. EDTA functions by forming a calcium-chelake solution with Ca ions of dontin there by becomes more triable & easier to instrument

- EOTA is effective in softening dentin.
- -irrigation with EDTA remove inorganic part of smear layer.
- The Extent of demineralization by COTA is proportional to exposure time.
- -when it is difficult to introduce a file into canal due to introcond culci-fication or latrogenic blockage, EDTA get can be used of one should try to negotiate such canals with instrument easted with EDTA get.

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- Real- anal of posterior tooth is narrow s. It was risks breaking a line Instrument, it is better to pump EDTA into comal 4 wall for 1 mm before attempting instrumentation.

Chlorhexidine Digluconale (24):

chlorhexidine digluconate (CHX) is a Contion bisbiguanide which is will get as irrigating soln as well as an intracanal medicament. The structure consist of two symmetric four—chlorophenyl rings 4 two bisquanide group held together by central hexamethylene chain. It is less toxic compared to other commanly employed irrigants.

Mechanism of action:

CHX possess a broad spectrum antimicrobial activity against most commonly extido dontic parthogens. It is also possess backeristatic & backerically activity: 2x CHX is capable of electrostatically binding to negatively charged backerial surface. The antimicrobial activity of the against gram-positive backeria & yeast of attributed to its ability to permeate the microbial cell wall & cause coagulation of explaining components.

Limitations:

- CHX lack tissue dissolving ability

in conjugation with other irrigants.

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MENTION VARIOUS INTRA CANAL MEDICAMENTS WRITE IN DETAIL ABOUT CALCIUM HYDROXIDE

Commonly recommended Intracanal medicaments

, calcium hydroxide

, chlor hexidire dig uconate

, Anti brotic

-Triple antibrotic pask

- Double antibrotic puste

.sterords

- Ledermix

1. calcium hydroxide >

calcium hydroxide ca(04)2 has been used by endodontist through out the world since thermorm introduced it to dentistry in 1920.

Mechanism of action:

It is highly alkaline substance with a ptt of approx 12.5 Caloth), has antibacterial properties & has ability to induce repair & stimulate hard tissue formation. The bactericidal effect is countried by its highly alkaline ptt. The release of hydroxye long in an aquebrus.

thy drowyl tons are highly oxidizing free radicals that distroy backering by.

- Damaging the cytoplasmiz membrane.

- proteins denatorate.

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Grossman's requirement of an ideal root canal medicarnants.

- -It should be an effective antimicrobial agent
- -It should be non irritating to periradicular sissue.
- -It should remain stable in solution.
- -It should be active in presence of blood, serum a protein derivatives of Hissue
- -It should have low surface teneran.
- It should not stein tooth structure
- -It should not induce a cell mediate immune response.

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perine & Mention objectives of obturation
obturation: According to american association of "obturation is
the method used to fill & seal a cleaned & shaped root canal
using a root canal sealer & core filling materials.

Grossmon's requirement for an ideal root canal filling makerial.

- of should seal the canal laterally as well as aprically,

The material should be easily introduced into not conal.

-It should not shrink after being inserted

-Ct should set slowly

- It should be impervious to moistore

- It should be bactericidal or at least should discoverage grank of bacteria.

- It should be storile on Easily, quickly sterilized immediately before insertion.

-De should be Easily removable from not canal if necessary.

Obturating materials.

A. Gutta percha - The material used most often.

friedman's composition: 20%. gutta percha (Matrix)

66 % Zina oxide (filler)

10 %. heavy metal sulfate

-5-1. waxes or resins-plasticity.

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- B. Resilon
- C. MTA (Mineral trioxide aggregati).
- * Objectives (criteria for obbration.
- 9 steeding (on discharge of strong fluids.
- achieved in tooth with vital pulp tissue.
- 3. failure of treatment is common in teeth with pre-existing perioodicular radiolucinay than in teeth with no perivadicular changes
- 4. In a multi sitting not canal thoropy case , care should be taken to ensure that there is no break down (or) leakage of temporary filling material during obstruction visit.





obturation techniquies

prohniques of obtoreation: , cold lateral compaction

a engle-cone obturation technique.

1. warm compaction (warm gutta-percha)

a warm vertical compaction technique.

5- warm lateral compaction technique.

3. continuous wave compaction technique

+. Thermoplasticized gutta-percha injection

s. Mespadden thermo mechanical compaction.

6. carrier-based gutta - percha

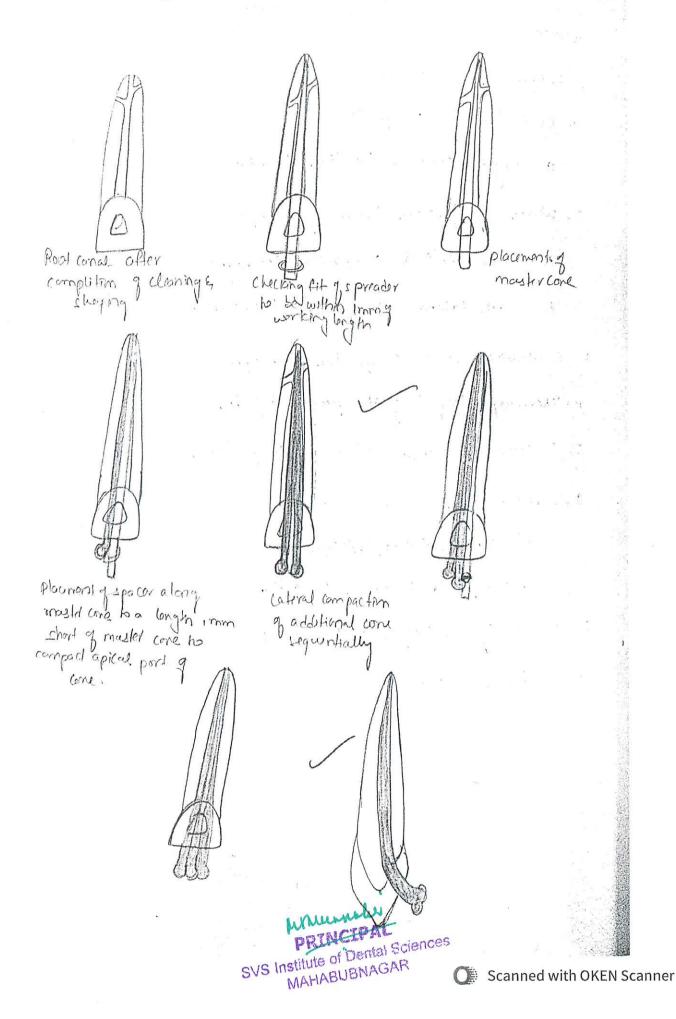
· Thermafil Hermoplasticized

. simplifil sectional obbration

7- Chemically plasticized gutta-percha

P. custome cone.

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Lateral condensation replations & drying the selection of made with paper -> checking for apical masprone TUG BACK Coane size of master apical files Radiographic Verification of moster constit -Inadequak Atbayond apex Al working I Aadequak #1 lingth Beyond the open Thort of apex charty apex of moster come extends byond working longto the It the mittal tit is short up should be cut of so so that of working length the paterny reinserted primary cone fils how to be established to at working length or next corrected length followed by larger size gutta percha coneis sequential irrigation recept watern & shaping of carnel to mserted mouter apical tile size.

scalar manipulation a coat the

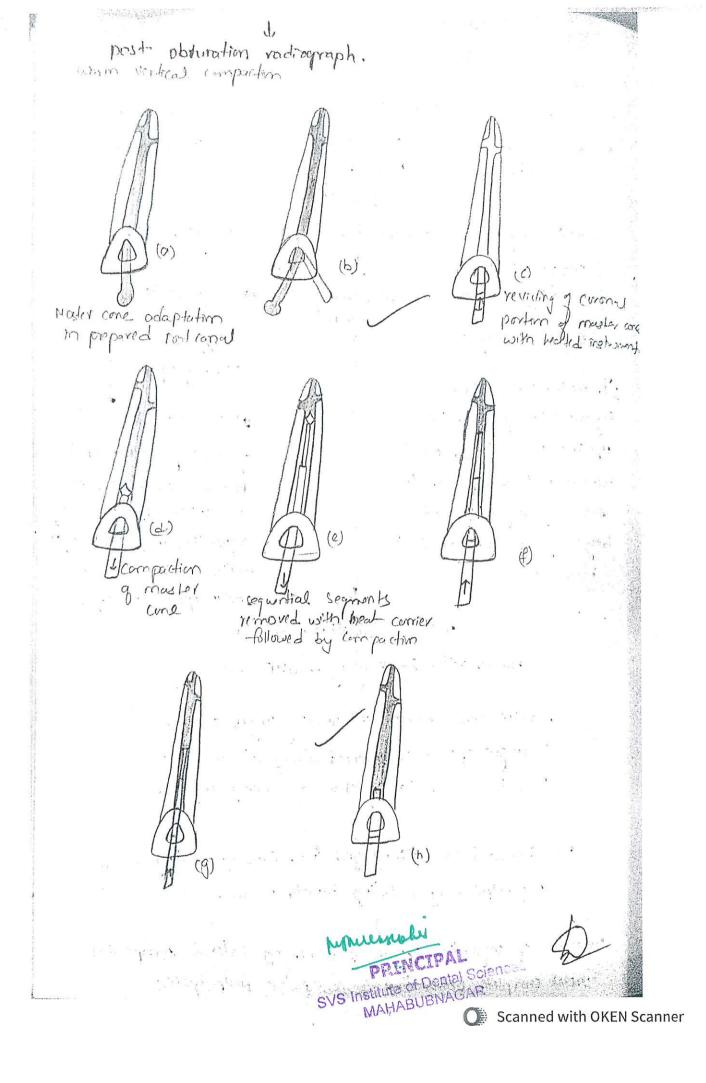
canal with scalar wing master come.

Mouster cone inserted till working longth & hand or finger sporaud is inserted along side mouster. Cone to a level 1 mm short of working length.

The spreaded is disengaged from cone by notating it blu fingertips or by notating handle in arc.

placement of sequential excessory comes by lateral compaction unital compute observation of radiocular pulp space.

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Warm Vertical Compaction

principle.

The warm verticle condensation or warm guttapercha technique. Of filling not canal was introduced by schilderwith objective of filling main root canal as well as lateral a accessory canals using heated pluggers, one applies pressure in a vertical orections to fill entire lumen of canal.

Technique:

The steps in warm vertical compaction are as follows

- 1-A primary non standardized or greater tapor gutta percha Come corresponding to lost instrument used to fitted in canal in usual manner.
- 2. The corral walls coated with thin layer of root corral sealers
- 3. The primary guttapercha cons/master cme is inserted upto working length.
- 4. The coronal end of come is cut of with heated Instrument.
- 5. warm vertical compaction technique can be divided into clinical steps.

step 1: Down packing:

A 'heat carrier's such as not canal plugger is heated to reduce & is immediately pushed into 3-9 mm of coronal 3rd of gutta percha.

The heat carrier is deactivated a removed after a paux of 2-3 seconds inside the canal matter of the area gutta-percha

gets removed along with heat corner. -The heat corner is now again activated & placed to further distance of 3-2 mm into remaining gutter porcha. This is again Adlawed by pausing & removing another regmens of guller percha.

-This process of down processing compacting of thermoplastized guty percha seperatly using alternative application of heart corrier & condensers repeated untill smallest plugger compacts with gutta percha to som from working length care should be taken he not remove goical 5 mm q gutta percha during the down -porocedure.

Step-2 Back, filling.

- once the down packing is completed the rext step is to fill remaining canal with thermoplasticized gutta-percha. This can be achieved in two way.

schilder techniques: The remaining portion of canal is plugged with additional pieces of gutta -percha that is located with heat earrier & the compacted with approx size pluggers,

Thermoplastic back fill techniques!

This can be achieved with devices that heat gutter percha to a specific temp & allow operator to extrude the termoplastic guttan percha Mb canal apico-coronally mice you fill 3-4 mm of canal, back fill devices is removed & plugger is used in compact gutta-percha. finumbly

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Thermoplasticized Gutta percha technique

principle:

This technique imprises a pressure apparatus consisting of insulated

electrically heated syringe barrel & a selection of needles ranging

from 18 to 25 gauge size-plunger is designed to present backward

flow of guitter percha.

Technique?

The termoplastic backfill systems are used in this technique. They nor heat guilter-percha to 2060. The canal preparation is similar to any other technique. After drying canals sealor is coaled onto canal walls.

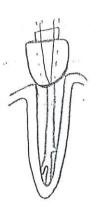
- The injections method the canal preparation is restricted apically with floring of body of canal toward access opening
- -Torabinajed & collegues found that injection of plassicized gutta-percha from pressure syrings produced satisfactory obtavillar as compared to cold lateral compaction.

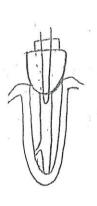
Limitations:

- one common defect in all injection techniques is lack of precision in delivering gutter-percha a near the aprical foramen & not beyond through it may till canal laterally in all its interstices.

Percha to flow apically with minimal compression when compared to force (or) pressure is used productions sometimes and sometimes and sometimes and sometimes are sentential and sente

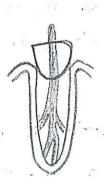




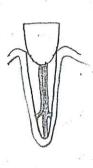














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ENDODONTIC SEALERS

Root canal scaler:

poot canal scalor are used in conjugaction with biologically acceptable somsolid on solid obborating material to establish an adoquak each of root canal system.

classification:

commonly word sealers

- 1. zinc-oxide Eugenol-based spalers.
- 2. Epoxy resin-band sealer
- 3. calcium silicate based sealors.

other available sealors

- 1. Calcium hydroxide realers
- 2-silicone scalers
- 3 glass ionomer based kaler
- 4. other resin based scaler
- 5. Medicated sealers.

Grossman's criteria for an ideal root canal sealer:

- e. provide an excellent seal when set
- 2. Be vadioopaque
- 3. Be dimenstionally stable
- 4. Be non staining
- 5. Be Easily mixed & introduced into canal
- 6. Re insoluble in Lissue thirds. when
- 2. Be non irritaing to periradicular tisturcIPAL

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- 8- Be slow setting to ensure sufficient MAHABUBNAGAR

1. zinc oxide Eugenol Based crolors:

· My have long history of having been used successfully in endodontry

'Grossman's Cement, Roth's tol Scaler

· Rickert's scaler: pulp canal xaler

p. Gross man's cement hardens in approx 2 hrs at 32°C 4 wy. relative humidity.

2. Epoxy Resin - Bould Scalers:

Atta6 is an spoxy vesin containing a nontoxec hardness radiopaly is imported to it by bismut oxide. It has drong adhesive poroportry; contrack slightly while hardening.

Advantage 1- Good sealing ability

2. biocompatibility to pariapical fissue.

3. Moderate antimionobial activity,

4. Dentinal adhesion.

3. Calcium Silicale -Rand cealey!

Tricalcium silicate is one of man components of NITAGIS now tocus of new generation of crommil vales.

Le example q' popular calcium silicake secules are

BioRoot Res. Composition - zirchonium oxide, dicalcium siliat tricalcium silicak aleium phosphak monobase, calcium hydroxia, Liller & thicking agent

Total fill Be sealer:

Composition - pawdor, Tricalcium librate, jrochonium ovide Liquid: Aqueous sit of calcarm chloride & polycorboxylest.

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WHO clasification & Traumatic injuries

Ellic & Davey classification (1960):

1. class I Engrand fracture

2. class I Enomes & dontin fracture without pulp exposure.

3. class II fracture involving cramel, centin & pulp

4. class I non vital

5. class V. Aulsim.

6. class VI Root Fracture outhors involvement of crown etrocture

of class VII Displacement of tooth willrout fractix of onen.

8- Class VIII 1055 y crown & mays

9. Class IX Prairma to deciduous teeth.

Andrewers modified classification of soft tissue & bony injuries!

1-lacceration of gingiva or oral mercosa! A shallow order wound in mucosa resenting from a team wouldy produced by sharp object 2-contains of gingiva or oral mucosa: A buse usually produced by impact with blunt object & not accompanied. by break in mucosa, usually origing submucosal hemmorkage.

3 - Abrasion y gingva or oral musica: A superficial wound produced by wbbrny or scraping of musica locating a bleeding serface 4. Fractive of mandibular/Maxillary alreolar socket was: A fractive

of alveolar process which involves the alveolar societ.

Fracture of mandibular/maxillary alueolar socket wel: A fracture of alueolar process may/maynot moder socket.

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6. Frocture of mandible Imaxillar: A fracture involving to box. of maxilla Imandible & often already process.

There and of Practure may I may not involve already socrat.

2



ENDODONTIC MISHAPS The scope of endodontics surgery has extended bayond root end perform to include other forms of periodicular surgery - fatulative surgery, corrective surgery & intentional replantation. Indications:

1. failure of non surgical endodonties treatment.

2. failure of porchious curgery,

3. Anatomical problem.

9. latrogeniz error.

s. periodontal considerations.

contraindications!

- 1. Inadequate periodontal support & active unantiolable periodontal
- 2. poor restorability with a post endodontic restorations.
- 3. systemize complications of patients such as bleeding discretes, severe. heart disease such as a partient recuperating from myo cordial infarction & immuno compromised patients.

4. partitioners still & experience with microsurgical treatment plays an important role.

stages in surgical endodentry:

Mandatory Investigations prior to curgory

- Meding time

· Clothing time

· Programbin time

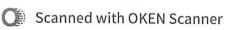
Actuated particul throm boplastin time sys institute of Dental Sciences Partia i

-disease with defeative coagulation - Harmophilia - Throm bucy hopenia. eleps mendosurgery Case diagnoso preoperative surgical notes Anesthesia / hemostasp Management of soft & hard tissues surgical access or osteolorny. perinadicular currettage Access to root surface Dust end rexcfin Rust end preparation Root end filling Soft tissue repositioning & suturing post surgical care. Endordentiz micro sirgen, Magnification illum matron Guttman's classification of endodontie surgey, Inspurants 1 - Fistulative, surger 2 - perioadicular surger a-Incision & drianage a-Cureffage b. Cortical trephination 6- mut end resection c. Decomposession procedure C- Rept end proparation I Rout end fill PRINCIPAL SVS Institute of Dental Sciences Scanned with OKEN Scanner MAHABUBNAGAR

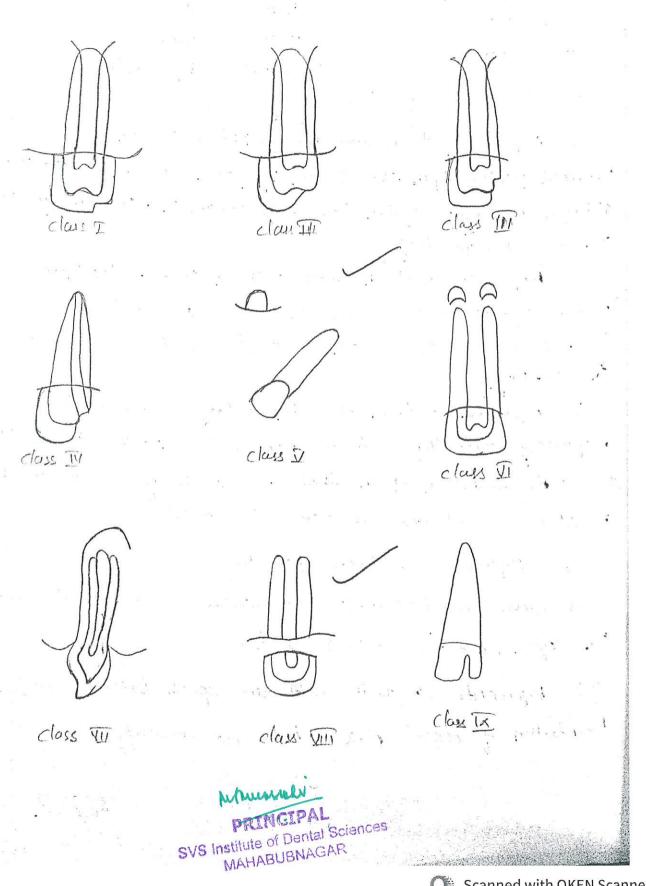
ENDODONTIC SURGERY correduce curgoy: a perforation repour b- pernodontal managment, 1. Michanicy 1. Rust resection ii. Resorptive 11. Tooth resection 1. xims classification of rollin surgery races L C. Intentional replantation. (lass A: Represents a tooth with no perioddicular lesion, no mobility, Inamal pocket depth . The clinical symptoms have not resolved, although nonsurgical options have been Exhausted. Winited symptoms are only reason for surgeydus B: Riporcunts a tooth with a small periradicular lesim with United symptoms. The tooth has normal periodontal probing depth & no mobility. The feeth is in this class are ideal candidates classic: Reportsent a tooth that has a large permadicular lision progressing coronally i without periodontal pocket a mobility. This D: Reports or tooth that is clinically similar to that in class c, but has deep periodontal pockets. The E: Reports a tooth that has a large permidicular win with an Endodentie - periodental communication to the apex, but no obvious fractive,

budation of beceal plate, but no mobility.

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Ellis & Drieg classification



I'Y PREPARATION & RESTORATION ON	PATIENTS

ZO	Restoration		B	(E)	Q	(24)	*			
ORATION	Base & Matrix	1	\	\ .	\					
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	ALLIAN	

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	Base & Matrix	J)				J			-	Ø	7	w.
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Y PREPARATION & RESTORATION ON	SLATE
CAVIT	

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OOT CANAL TREATMENT ON SINGLE ROOTED EXTRACTED TOOTH MOXIMON Cenhal Praison secavity & pulpextitipation	ngth of tooth 25. 25. 25. 25. 25. 35. 35. 35. 35. 35. 35. 35. 35. 35. 3	nner

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REATMENT ON SINGLE ROOTED EXTRACTED TOOTH	20 20 mm 20 20 mm 20 20 mm	ersa 20 mm 20 20 mm	diograph 40 35 (size)	Date of Con
ROOT CANAL TREATMENT ON	-operative radiograph (Diagnostic) -ss cavity & pulp extirpation -king length determination (Ingle's technique) - operative radiographic length of tooth - Tentative working length	oh with instrument and if 7 1.5 mm, add 1.5 mm & Vicev termination (minus 1mm) th tion (master apical file) ion (yes/no)	tion of guttapercha master cone & confirmation radiograph 40 35. (size) ration (lateral condensation technique) 7. Final post obturation radiograph ost both radiogra	PRINCIPAL /S Institute of Dental Sciences MAHABUBNAGAR

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ROOT CANAL TREATMENT ON SINGLE ROOTED EXTRACTED TOOTH Mond: birdow Molar	

CAST METAL RESTORATIONS The ast metal restoration is an indirect restoration that involves. numerous steps & dontal moderial with medicalay attention to detail. The class I in lay is an intra commed cast metal restoration that produces the occlused & proximal Eurfaces of pasterior feetin. - The partial enlay is a cost motal restoration that involves occurred a proximal service of posterior & corners & retores at least one but not all cusp tips of posterior tout. Cost metal alloys: At poresent four distinct group of alloys Gx in use for cost restoration 1. Madifional high gold alloys. 2. 100-gold alloys. 3- Palladium - silver allay. 4. Bak metal alloy (most commonly used). Indications: 1-large restoration 2. superior contact & contour. 3. Endodontically treated tests 4. Dental Rehabilitetion with cast motal alloys. contraindication; 1. tugh corries rate 2- young patients 3. estretics 1. small restorations. Advantages Discidvantage Number of apposite Strength cheir the MAHABUSWAGAR Bro compatibility bourboar Temporary restorations Condro list bog That Afrond abidres contacts and it produces the blood 2 ratechnique consitivity out only

K. Programme at the

bland wife gother sample gothing or start

Clinical Hops in tooth foreporter Initial preparation 1. occlused steps = step 1: orienting the being step 2: occlusal pench cul step 3: occlusal extension step 4 : Dovetail retention steps: occlusal outline form. 2. proximal box i - step 1: proximal ditch proparation Step 2: proximal box preparation Step 3: planing the walls stopy: placement of retention groover. final preparation! 1- Removal of infected carious dontin & pulp protection. stop 1: Inspection. step 2 : Romoval of infected caries. step 3 : Romoval q old restorative roaterial. step = : Pulp protection with light cure GIC. Steps: Uning with calcium hydroxide 2. porporation of barel & flares: Step 1: Preparation of occlusal bevel step 2: Bevelling the axiopulpal line angle Stip & : Poreparing secondary Linguis Place Step 9: Be velling gingival margin. steps: preparing secondary facial flare. I. Initial preparation! 10 occusal step 1500 money Paretter ! Step 1: Orienting the bar: No-120 carbide berris held parallel to long

Step 1: Orienting the bar: NO-124 carbide bent is held parallel to long axis show tooth crown with being bent should be notating at high speed before application to tooth Elishald not stop notating until it is removed.

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CAST METAL RESTORATIONS step 2: accusal punch out: enter the fosser (ir) pit to involve marginal ridge using punchout to depth of 15 mm establish depth of pulpal walls. Step 3: Occhused Extension: Mountaining 1.5 mm imital depth & same Der orientation, dentist extends preparation outline along control

groove (ur) fresure to include mesial fosca (ur) pit.

step 4 > Dovetail Retention: use slender 169c carbide but to create facial & Engual Extension into mestal pit region . There by Creating destred dovetail refertion from distal de placement of inlay.

Step 5: occlused outline form: we 271 carbide but to extend occlused step distally into distal marginal ridges.

- Increased factolingual width creables facial a lingual walls of box to project perpendicular to proximal surface at positions that clear the adjacont tooth by 0.2-0.5 mm.

2. proximal step! step 1: proximal Litch, porparation: containing with no 2 -> 1 carbide bur, distal enomed is exploited by cutting proximal diten mesiodistal width of ditch should be 0.8 mm & porepared approx 45rd of expense of donton & me third atexpused enamel.

Step 2: poroximal box proporation: with no. 271 carbide enamel make 2 outs once at facial consist of proximal distant a other at longered Comit-

Steps: planning the walls: planning distrofacted Listolingual & genginal wall is accomplished by hand instrument in order to remove all undermined enamel. Depending on access operative can use a bin angle chisele co step 4: placementing Retention grooves: - Challow retention grooves may be out in fercrowral bearingual axial the angles with no. 1892 carbide.

There growns are indicated especially into an short.

1. Removal of infected carious domlin & pulp protection: I Amal proximani. step 1: Inspection: After initial poreparation has been completed dentist Evaluate internal walls of proparation visually a tactility for indication gary remaining carious dorston . If carious dontin vernains & if it is judged to be infected but shallow (or) moderate cots factory Rolaton for removal of which earlies i's done with using cotton rolls, salvey sjection step 2: Removal & infected caries 1- A-struly revolving round ber (No 49) or spoon excavator is used to remove carious infected dentin. Step3: Removal of old restorations materials in condition like old restorative material is judged to be thin, non retentive. - Radiagraphic scribence of caries under old material is - Reil Pusas symphomatiz pre operatively step 4: pulp protection with light cure GIL: - placing base takes little time & should be considered because it result in working dies that have preparation wall with no undraits. - Applying base at this time romininges additioned initation of pulp doing subsequent procedure recessary for completion of restoration, - eight cure GIC adhere to proth structure à Loesnot require retentre undercuts when base is small to moderate. step 5: Lining with calcium hydroxide + - It the excavation closely approaches to pulp (m) direct pulpis indicated dents to should 1st apply crining of Ca(OH) wing following techniques. calcium hytoxide line should over a protect any possible (on near exposeire & extend over major posting of excavated dentined our face

- calcium hydroxide treatment of an exposed houthey pulp promotes formation of donton bridge which probable viloxing pull exposure.

Manual Bredance fairly PRINCIPAL SVS Institute of Dental Sciences MAHABUBNAGAR

SRI VENKATA SAI INSTITUTE OF DENTAL SCIENCES
Appanapally, MAHABUBNAGAR-509 001.
Affliated to NTR UNIV. OF HEALTH SCIENCES ANDHRA PRADESH.

DEPARTMENT OF ORAL AND MAXILLOFACIAL SURGERY

Certificate

This is to certify that Mr./Miss ALAMURU PURNA CHANDRA REDDA's completed the clinical exercises and training in Oral Maxillofacial Surgery prescribed by the NTR University of Health Sciences for B.D.S. course during the year 2023 to 2024

Date: 21/12/2023

Univ. Regd. No.: 1902106006

Professor & H.O.D.
Dept. of Oral & . Maxillofacial Surgery

Sys Institute of Dental Sciences

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IV BDS DISCUSSION TOPICS

1)	Day1	Case History and Clinical Examination
2)	Day2	Sterilization & Asepsis
3)	Day3	Techniques of Maxillary anaesthesia - I
4)	Day4	Techniques of Maxillary Anaesthesia - II
5)	Day5	Techniques of Mandibular anaesthesia - I
6)	Day6	Techniques of Mandibular anaesthesia - II
7)	Day7	Local Complications of LA
8)	Day8	Systemic Complications of LA
9)	Day9	Transalveolar Extraction & Elevators
10)	Day10	Complications of exodontia
11)	Day11	Surgical removel of impacted mandibular third molar
12)	Day12	suture materials & Antibiotics
13)	Day13	Fractures & Principales of Mangenment and wiring techiques
14)	Day14	Biopsy
15)	Day15	Analgesics & Antibiotics
16)	Day16	Prescription Writing & IM, IV injections
17)	Day17	Synscope, Anaphylaxis, Emergency durgs & Equipment
18)	Day18	Medical Emergencies in Dental Office - I (Cardiovascular)
19)	Day19	Medical Emergencies in Dental Office -II (Respiratory)
20)	Day20	Medical Emergencies in Dental Office - III (Endocrine)
21)	Day21	Medical Emergencies in Dental Office - IV (GIT & CNS)
22)	Day22	Medical Emergencies in Dental Office - V (Renal & Organ transplant Patients)
23)	Day23	Medical Emergencies in Dental Office - VI (Bleeding & Clotting discorders)
24	Day24	Medical Emergencies in Dental Office - VII (HIV and Hepatitis)
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3)	12. 30 sadras	2358431	Sarawathi	65 years	Female	Chronic isonevide pulpitis 1:34		Extraction Interior clonc atversion L.H. nceve int block 136 e. Loug buck	
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The trigeminal neave is so called because its three main branches ie Optholmic, Maxillory and Mandibular Nerves.

- It is the largest of the cranial nerves
- It is the fifth cronial nerve
- . It is the mixed nerve
 - It is sensony to the greater part of the scalp. the teeth, and the oral and nasal cavities
- . Moton supply is to the Muscles of Mastication. Proprioceptive nerve fibres wrise from the mastratory and extra-ocular muscles.

MOTOR ROOT!

It arises separetly from the sensory most in the motor nuclei of pons. At the semilunar ganglion it passes inferolaterally under the ganglion towards for ovale through which it leaves the middle cranial tossa along with the mond division. After it exits the skull, it unites with the sensory moot and forms a single nerve torunk. It supplies the

- 1. Muicles of Mastication.
- 2. Mylohyoid
- 3. Anterion belly of digastric
- 4. Tenson tympani
- s. Tenson veli palatini

SENSORY ROOT!

The fibres of the sensory noot arise from the cells of the trigeminal ganglion. The branches of the unipolar cells of the trigeminal ganglion are divided into central and poripheral branches.

- The central branches leave the concave surface to enter mumul the pons,

The peripheral branches are grouped to form the sinstitute of Depthalmic and maxillary horres and sensory party MAHABUSThe mandibular neme.

THE TRIGEMINAL GANGLION

- Sensony most fibres of the trigeminal henve comprise the central process of cells located in the trigeminal ganglion. Two ganglions one inervoting each side grace located in meckless cartilage cavity, on the anterior surface of the petrous portion of temporal hone.

-It is cresentic semilunar in shape.

- Medially it is related to 1.C. A and covernous sinus interiority with the motor rook withe greater petrosal and the apex of the petrosus temporal bone of foramen lacerum.

- Blood supply of the ganglion is through the ganglionic branches of the RCA & the accessory meningeal anterly which enters through the tonamen ovale.

Various nuclei assosiated with the fifth nerve are situated within the pons. They are

1. Motor nucleus

2. Sensony nucleus

3. Mesencephalic nucleus

4. Spinal nucleys.

The 3 Main divisions of the trigeminal nerve are;

VI 1 Optholmic division
V2: Maxillary division
V3: Mandibular division.

OPTHALMIC NERVE :-

- . It is the superior division of the Inerve & is the smallest
- · Leaves the examium and enters the orbit through superior orbital fissure.
 - . 2+ is wholly sensony

. It has 3 bonanches. All 3 of them passed the superior orbital fissure into the HABUBNAGAR They are:

foursald

- 1. Lacrimal Nerve
- 2. Frontal Nerve
- 3. Nasocilliary Norve.

1. LACRIMAL NERVE :

- 2t is the smallest-2t supplies the localmol gland and the conjuntivo.
- 2t pineces the onbital septum and ends in the skin of the upper eyelid.

2. FRONTAL NERVE :

- -It is the largest branch & appears to be the first direct Continuation of the optnalmic division. It enters the Onbit through the Superion Onbital Fissure divides into 2 branches:
- (i) The supra Onbital branch: It is larger & more laterally placed. It supplies the skin of the tonehead & scalp as for back as the vertex. It also Supplies the mucous membrane of the frontal sinus and pericionium.
- (ii) The Supria trochlean bronch: It is ismaller and more medially placed. It curves upward on the forehead, close to the bone : It supplies the sking the upper eyelid and lower porty the forehead.

3. NASOCILLIARY NERVE!

It is intermediate in size and nuns more deeply. Its branches are divided as following,

- (1) Branches in the Onlife
- (ii) Branches in the Nasal Covily
- (iii) Branches on the face.

OBRANCHES IN THE ORBIT:

(i) Long noot of the ciliony ganglion: It is sensony & posses through the ganglion without synapsing and supplies the eyeball Mound

SVS Institute of Minkel Egong's ciliary nerve & Supplies the Pris & Conneg. MAHABUBNAGAR (iii) Postaion ethmoidal newle. It enters the postaion ethmoidal canal & supplies to the mucous membra (iv) Antonion ethmoidal nerve: 2+ supplies to the lining of the Antethmoidal & frontal paranasay ain cells.

In the upper part of nasal cavity, it further (a) Internal nasal branches, supply nasal conchace the antinonal wa

(b) External nasal branches skin on the tiperala,

BRANCHES IN THE NASAL CAVITY:

The branches arising here supply the mulous memberane of the nasal cavity.

(III) TERMINAL BRANCHES ON THE FACE:

They supply sensony nerves to the skin of the media parts of the both eyelids, the lacrimal sac. They also supply skin on the bridge of the nosc.

MAXILLARY NERVE !-

- . This is the second and intermediate division of the trigeminal nerve.
- · It is wholly sensony
- · COURSE 1 2t begins at the middle of the trigeminal ganglion as a frattened, plexitorm band, passes horrizontally forwards along the lateral wall of the cavernous sinus.
 - It leaves the skull through the foramen notundern & becomes more cylindrical & firmer in texture.
 - It conosses the upper part of the pterygopalatine tossa, inclines laterally on the posterior part of the onbital process of the maxilla and enters the orbit through the interior orbital fissure.
 - It is now termed as thousand on bital nerve. It passes through the intra onbittal groom & Canal in the floor, of the orbit ssappeans who to face though

The branches of the maxillary nerve can be divided into the following 4 groups:

is In the Cranium: Meningeal branch

2) In the pterrygopalatine tossa: Ganglionic, Zygomotic, Post superior official news

3) In the intra Onbital conali

Middle Superion alveolar Nerve Anterior Superion alveolar News

u) On the Face: Palpebral, hasal, superior labial.

Branch given off on the cranium:

1. Meningeal branch: 2t is given off near the foramen notundam. It supplies the duromater of the anterior and middle cronial tossac

2) Branches in the pterygopalatine tossa:

1. The Ganglionic branches 1 They connect the maxillary nerve to the pterijgopalatine ganglion.

· They contain secretomoton fibres to the lacrimal gla

. They provide sensory fibres to the oribital peniosteum & mucous membrane of the nose, palate and phonynx.

2. The Zygomatic Nerve,

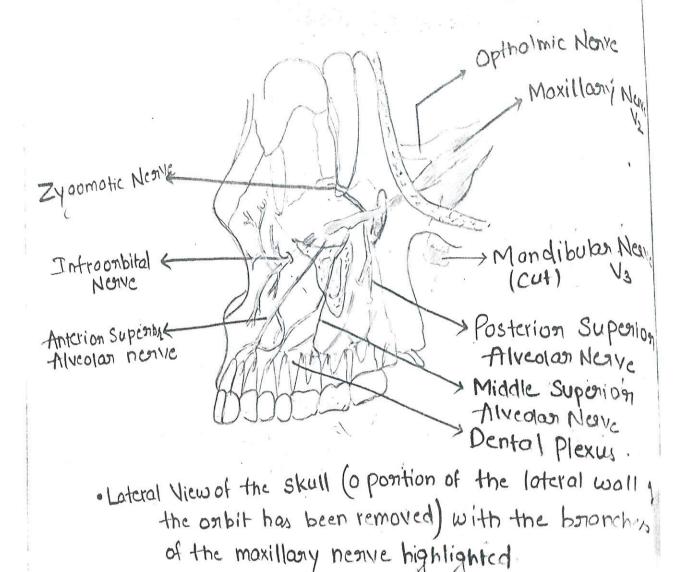
It arrises in the pterygopalatine fossa from the maxillary herve and travels anterionly entering through the interior orbital fissure where it divides into 2 brancha

- Zygomaticofacial Neve

- Zygomatico temponal Norve.

parlostenion Superion Alveolar Nerve:

svs institute the begins in the pterrygopolatine toss a but divides into 3 branches which emerge through the pterygo maxillary fissu 2 branches enter the posterion wall g the maxilla above the tuberosity and supply the molours (except the mesiobuccal noot of the 1st Molari). The third branch pierces the buccinator and supplies the adjoining part of the gingiva & cheek along the huran side a upper motor teem



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sp Branches in the intrabibital canal (Intraonbital Newe)

Middle Superion Alveolon Nerve:

It anises from the intro oribital foromen nerve & runs downwards and forwards along the intraorbital groove along the lotual wall of the maxillary sinus.

It divides into bronches which supply the Maxillary premolars and mesiobuccal root, the first molar teeth.

2. Antenion superion alveolar nerve:

It also anises in the introonbital canal near the midpoint.

It nuns in the anterior wall of the maxillary antrum.

It nuns interiorly & divides into the branches, which supply the canines &incisons.

A nasal branch from the nerve, given off from the superior dental plexus supplies the murous membrane of the antas part of the lateral wall & floor of the nasal cavity. It ends in the nasal septum.

u) Branches given on the Face,

1. The palpebral bronches: They arise deep to the orbicularis oculis

and pience the muscle, supplying the skin over the lower eyelid & lateral angle of the eye along with the zygomaticofacial & facial nerves.

2. The nosal branches:

They supply the skin of the nose & tip of the nosal septer and join the External naval branch of the anterior ethmoidal nerve.

3. The Superion labial bronches: These are large and numerous they supply the skin over the anterior part of the numerous cheek & upper lip including the mucous membrane & labial glands.

They are joined by the facial nerve & form the intraoribital plexus.

MANDIBULAR NERVE 1 It is the third and largest division of the trigeminal new , torcownf

It is made up of two rook:

- Lange sensory most which proceeds from the lateral part of the trigeminal ganglion & almost immediately emerges out from the foramen ovale

-> Small Motor Root which passes below the ganglion & unites with the sensony root just outside the fonomen.

* Immediately beyond the junction of the sensony and moto: moots, the nerve gives the meningeal branch and the new to the medial ptergoid. Now the main trunk divides into. small anterior and a large posterior branch.

* As it descends from the foramen, the mandibular non lies of a distance of ucm from the surface & a little in -front of the neck of the mandible.

The branches of the mandibular nerver

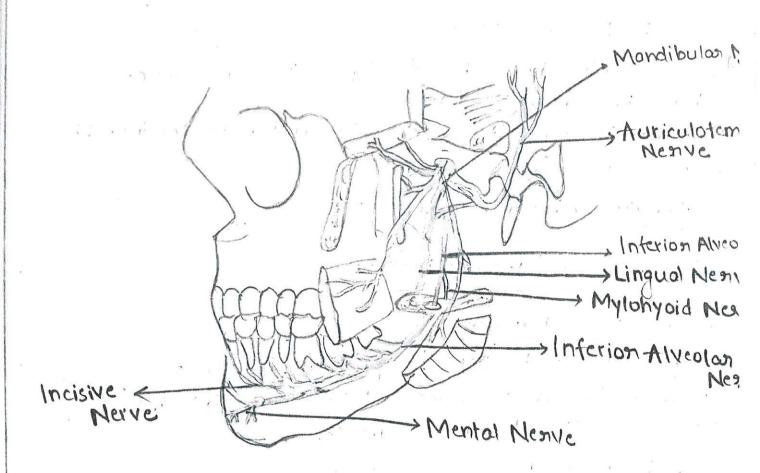
- 1. Branches from the undivided nerve:
 - i'il Meningeat bonanch | nerveus spinosey
 - (ii) Nome to the medial ptorygoid
- 2. Bronches from the divided nerve:
 - (0) Anterior division,

(B) Posterion division.

- (i) Buccal nerve
- (ii) Massetric neave
- (iii) Deep temponal nerve
- (iv) Nenue to the lateral Pterygoid.
- (i) Auriculatemponal nonvo
- (ii) Lingual nerve
 - (iii) Inferior alveolor new

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THE PATHWAY OF THE POSTERIOR TRUNK OF THE MANDI



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NEUROPHYSIOLOGY, MECHANISM OF ACTION OF LOCAL ANESTHESIA.

Loss of sensation in a cincumscribed area of the body caused by a depression of excitation in nerve endings (on) inhibition of the Conduction process in peripheral herver, no loss of consciousness occun.

(Malamed). Properties of local anesthesia:

It should not be isvitating to tissue which it is applied.

It should not cause any permanent alteration of nerve structure

. Its systemic toxicity should be low

- 4. Duration of action must be long enough to permit completion of the procedure yet not so long as to require on extended.
- 5. It should be relatively free from producing allergic Reactions.
- 6. The time of onset of anesthesia should be an short as possible
- 7. It should be stable in solution & should readily undergo biotransformation in the body.
- 8. It should be sterile capable of being sterilized by heat without deterioration.

fundamentals of impulse conduction:

> They come 2 basic types & neurons.

They are sensory (afterent), motor (efterent) from CNs impulse Molonen conducted towards periphery. Dendrites plaid

PARTS OF NEURON

1. Cell body

2. Dendrites

3. Axon

CNS .

V CEll POUN Nucleus

-Axon

Synapse Wila

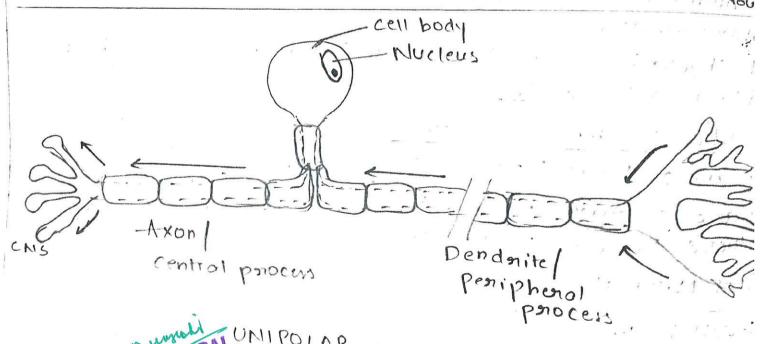
和州

another neuron

SVS Institute of Dental Sciences MUNTHABOLBARDATEUFON

· Classification of penipheral henves according to tiben and physiologic properties:

•				n I mare tra	conduction	Location
Fil	ben class	Sub class	Myelin	Diometer	velocity	Tanch
Á	Alpha +	6-22	30-120	Afterent to efferent the muscles s	Toinh	אורקסונק , ורסלטא
	Beta +	6-22	30-120	Afterent to		Motor , berobyic
	Gammo	3-6	15 - 3 ⁻ 5	Efferent to	muscle spiralle	Pain to
	Delta .	4			*	10 ach
B	, "L	+ <3	3-15	Priegargio	nic sympathetic	c Various autonom function
**************************************	sympot	hetic -	0.3-1.3	0.7-1.3 Lm	postganglion/ sympother	dulono funci
C	donsal gam	Root -	0.4-1.2	0.1-2.0 um	Afterent Sens nerves	Ony Vanit
				wi)	o E	Francti Pain,



PRINCIPAL UNITPOLAR SENSORY NEURON

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Electrophysiology of Nenve Conductions

A nemue possesses a mesting potential. This negative potential of -70 my that exists across the nemue membrane, produced by differing concentration of ions on eitherside of membrane. The interior of nerve is negative relative to the exterior.

Step 1:

A stimulus excites the nerve, leading to following sequence of events.

- A: An initial phase of slow depolonization. The electrical potential. within the nerve becomes slightly less negative.
- B. When the falling electrical potential neaches a critical level, termed
- c. This phase of napid depolarization negults in neversal of electrical potential acrossnesse membrane interior positive in nelation to exterior.

Step/21

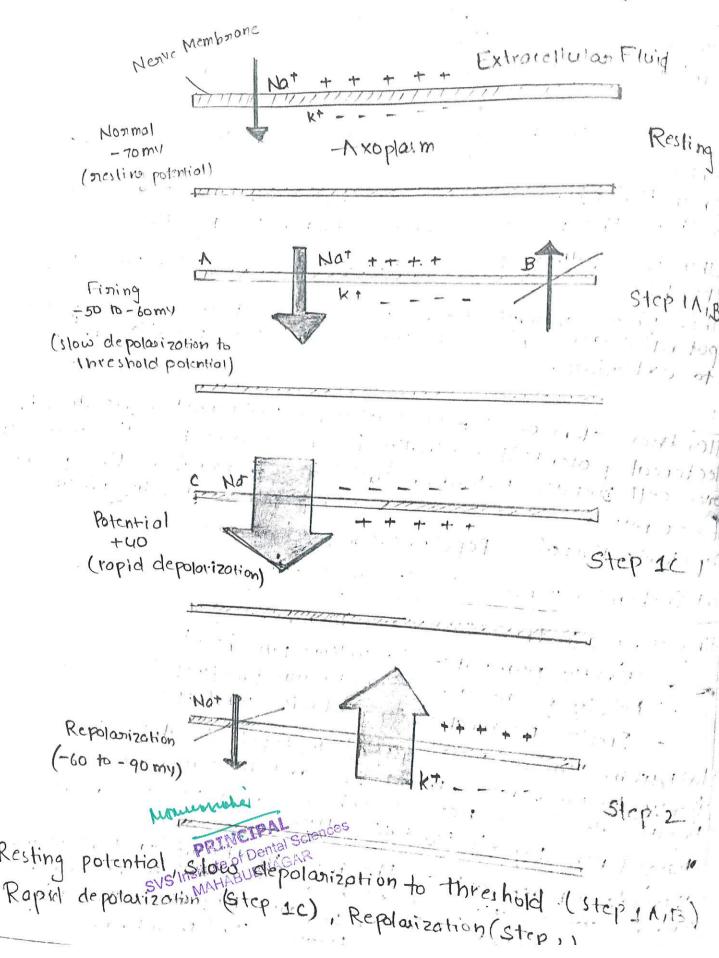
After these steps of depolarization, repolarization occurs, the electrical potential gradually becomes more negative inside the nonve cell relative to outside until the original resting potentia of -70 my is a gain achieved. Entire process require imillisecond Depolarisation: 0.3, Repolarisation takes 0.7 m.sec

Electro chemical 9 news conduction:

Resting stage: In this state, newe membrane is

- Slightly permeable to sodium ions (Nor)
- Freely permeable to potassium ions (K+)
- Freely permeable to Chlonide ions (CI)
- -> Poterairum temains within axoplasm, despite its ability to diffuse freely through nerve membrane and its concentration quadier negative change of nerve membrane nestrains the positively changed ions by electrostatic attraction,
- olong its concentration gractient because the apposing nearly equal electrostotic influence tonces outward migrations of result is no diffusion of chloride through ATABURNAMED anc.

- sodium ions influx occurs because both the concentration quadient and electrostatic quadient favour such migration.



Mechanism of Action of Local Anesthesia!

It is possible for local anesthesics to interfere with excitation

process in nerve membrane in the following ways:

1. Altering the basic nesting potential of nerve membrane.

2. Altering the threshold potential

3. Decrease rate of depolarization

4. Prolong rate of repolarization.

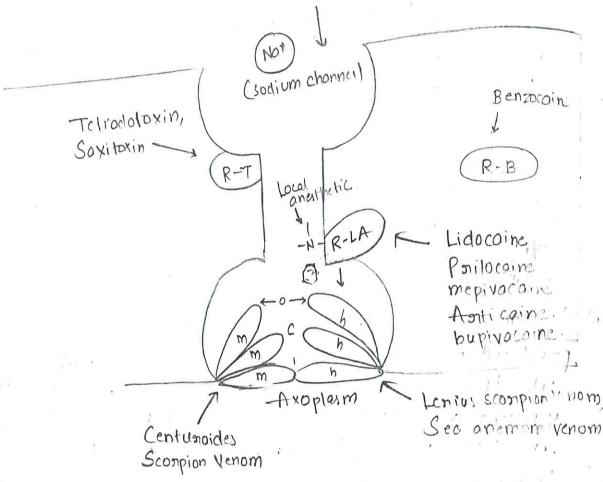
Theonies explaining mechanism of Local anesthesias

- (a) Acetyl choline theory: Stated that acetylcholine involved in new conduction, in addition to its note as neurotransmitton at now synapse. No exidence indicates that acetylcholine is involved in neural transmission along body of the neuron.
 - (b) Calcium displacement theory: Local anesthesia nerve block was produced by displacement of calcium from some membrane site that controlled permeability to sodium. Exidence the varying concentration of calcium lons not affected local anesthetic potency has diminished the credibility of the theory.
 - nerve membrane and changing the electrical potential at membrane surface. Evidence indicates that resulting potential of marke membrane is unoffected by local anotheria.

(d) Membrane Expansion theory,

States that local anesthesia molecules diffuse to hydrophobic regions of excitable membrane, it prevan increase in permeability to sodium ions. Local anesthetics are highly lipid soluble, it easily penetrate the lipid portion of cell membrane, producing change in configuration. This results in decreased diam of sodium channels, leads to inhibition of both sodium conductance and neural excitation.

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- Tentiony amine local onesthetics inhibits the influx of sodium cluring now conduction by binding to receptor within the sodium channel per

(e) Specific Receptor theory:

Most favoured today proposes that local anesthesia act by binding to specific receptors on sodium channel.

or specific neceptors site for local anesthesia exists in the sodium channel either on its external surface or on the interna axoplasmic surface. This causes had permeability to sodium ions and new conduction is interrupted.

The daug after neave conduction in atteast 4 sites within sodium

Channel

2. At the outer surface of Sodium channel

3641 At the activation (07) inactivation gate

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a SYSTEMIC COMPLICATIONS OF LOCAL ANAESTHESIA

Local anesthetics are extremely salednugs when used as precommended tohdoses, whenever any drug including LA is used, the potential for unwanted and undesimable mesponses exists. Wheneva the drug is administered two types of actions may be observed pardesirable actions (b) Undesimable actions.

Principle -1: No drug even exents a single action

Principle. 2: No clinically useful drug is entirely devoid of toxicity Principle - 3: Potential toxicity of drug rests in the hands of the

classification of adverse drug reactions:

- Labeled as side effects, odverse expeniences drug induced diseases, secoundary effects and intolenance.
- Toxicity caused by direct extension of unusual pharmacologic effect of drug 1. side effects 3. Local toxic effects, 2. Overdose Reactions
- Toxicity caused by allengic gresponses to the drug
- Overdose reactions rationary and idio syncrosy are important in Itelation to local anesthesis and pain control.
- Overdose Reaction due to over administration of the dange
- LA ovendose, depries excitable membranes [CNS & myocardium a
- Allengy: hypersensitive state acquired through target organi]. exposure to particular allergen reexposure brings heightened capacity to react clinical manifestation are fever, wrticaria, dematitis, bronchospasm, anaphylaxis

PREDISPOSING FACTORS - FOR LA OVERDOSE:

(a) Patient Factors.

Age Genetics Musyale Mental attitude & Envision Mark CIPAL Weight SVS Institute of Dental Sciences Other drugs MAHABUBNAGAR Sex

Prescence y disease

(PIDEOR FACTORS.

Varoactivity Concentration Dosc

Roule of administration

Route of injection Voicularity of injections 12 Prescence of varoconstrictory.

BM Dropellar

CNUSES :-

I sed blood levels of local anesthesia results in

- · Biotransformation of drug is usually plow
- · Slow elimination by the kidneys from the body
- · Absomption from injection site is usually mapiq
- · Intravascular administration.

CLINICAL MANIFESTATIONS :-

Target organs ton LA include CNS and myocardium

- CNS i's extremely sensitive to the actions of LA as celebral levels of LA Ises, clinial signs & symptoms observed.
- LA cross the BBB, producing CNs depression. Non-overdose levels of Lidocaine 25 mg/ml - has no cus effect.
- CNS toxicity appear at lidocaine cerebral blood level > 4549/m il shows agitation, talkativeness & ignitability.
- Tonic clonic scizures occur 77.5 mg/ml with truther De seizure activity ceases & CNS depression & aprica are manitested.

Minimal to Moderate Overdose levels: -

SIGNS:	Symptoms
Talkativeness	Light headness & dizziness
Sturred speech	Restleisness
Furthonia	Menvousness
Dysanthria mumuli	Numbress Sensation twitching before twitching is Metallic task Observer.
Dysanthia sweating	Sensation runting betone twitching is
Vomiting SVS Institute of Dent	Metallic task Observer.
SVS Institute of Dent	Metallic taste Observat.

Moderale to high Overdose levels.

signs: Tonic clonic seizure octivity followed by generalized CNS

Depressed blood priesure, heart note, Respiratory Rate.

CUS ACTION -

. CVS, specifically the myocandium, less sensitive to actions of LA advenue CMS actions have appeared.

. LA. Primarily lidocaine use in management of coudiac dysorbthm priemature vientricular concentrations & Ventricular tachycaidia.

. Minimum effective level of lidocaine fonthis action is 1.8 ug/ml and maximum is 5 ug/ml. The level of which undestrable actions become more likely.

Lidocaine at >10 ug/m1 - cause massive peripheral vasodilation neduction in my ocandial controlity, severe briady cardios

possible cardiac arrest.

LOCAL AMESTHETIC BLOOD LEVELS & ACTION ON CVS, CNS:

- Macornelle	Proop Ferers & VI	27.012 371 311
CNS	lidocaine blood	CMS
Normal blood level atta introoral injection	0· O 0· 5 1· O 1· 5	Normal blood level after intro and injection.
1.8 - 5.0	2.5	-Anticonvulstant Actions
-Antidysnhythmic actions	3·5 u·0	
5.0-10.0 ECG alterations	5·0 5·5 6·0 6·5	U.5-7.0 CNS deprotsion monitest as excitation
Myocardiol depression Peripherol brodilotton	7.0 7.5 8.0 8.5 9.0	7.5 - 10.0 CNS depression Monited as tonic-clonic
Massive polpheral vasorilles antensive myorardideprod. Cardiac arrest	9.5	Seizures. 10+ Generalizarene Marianoe SVS Institute of Dental Science MAHABUBNAGAR

BASIC EMERGENCY MANAGEMENT

P - Position

Unconscious - supine with-leet elevated Slightly Conscious - based on patient comfort They

C - Cinculation

Unconsious - assers & provide chest compression 24 necessary conscious ... assers airway

B-Breathing

Unconscious... assers and ventilate if necessary Conscious . - assess breathing

D - Definitive Cave

Diagnosis

Management: Emergency drug and on assistance.

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ARMAMENTARIUM FOR LOCAL

and EXOPONTIA

The essential components of animamentanium from LA are as tollows.

1. Syringe

4. Additional Armomentaium.

Calendaria.

2. Heedic

3. LA cartilage Multidose Vials.

The Syringe 1

The syninge is one of three exential components of the LA armomentarium. It is vehicle where by the content of the anesthetic cantilage is delivered through the heedle to the patien

Types of syringers

1. Non disposable Syninger

(a) Breech loading, metallic, cartilage type, aspirating

(b) Breech loading, plastic, caetilage type, aspirating

(c) Breech loading, metallic, cartilage type, self aspirating

(d) Pressure syninge for paiodontal ligament injection

(e) Jet injector.

2. Disposable Syninges

3. Safety Syringes

4. Computer Contorilled LA delivery systems.

The Needle

It is vehicle that permits local anesthetic solution to travel from the dental contridge into the tissues surrounding the needle tip. - All needle used in dentistry are Stainless steel & disposable. Components - bevel, shoft, hub a cartilage penetrating end.

Selection of Needle

2 Factors < Gauge Length.

Moumoly

GAUGE - Diameter of the lumen 1 Systinstitute of Dental Sciences Smaller the number, the greater the number dismeter ; fu lumen.

ARMAMENTARIUM FOR LOCAL. ANESTHESIA

and EXODONTIA

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Selection of Needle mont Pactons < Gouge Length.

Smallender of the lumen of the needle smallender of the greater the number dismeter of the lumen.

of larger guage needle over smoller gauge needles Less deflection as the needle advances through tissues Greater accuracy of injection Les chance of needle breakage Easier aspiration No perceptual difference in patient comfort.

LENGTH :-

Dental needles are available in three lengths - long short & ultrashort - ultrashont needle are available only as 30 guage needles.

Length: Measured trom hub to tip of short needle is blue 204 25 mm, with standard g'about 20 mm.

- Dental long needle measures blw 30 & 35, with standard g about

- Along needle is preferred for all injection techniques in which penetration & approximately 20mm | more of soft tissues.

Short needles may be used for any injection in any patient who doesnot orequine penetration of significant depth of

DISPOSABLE SYRINGE

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ARMAMENTARIUM FOR CLOSED EXTRACTION :

- 1. Equipment for LA
- 2. Periosteal elevation com moon's probes for sucflection of soft

CLEP COM

- 3. Elevator convict type of elevator should be selected of each other.
- 4. Fonceps each type of tooth has different type of toleps designed for patient
- 5. Gauge, saline, suction etc.

Periosteal Elevator



When an incision is made through the periosteum, ideally the periosteum should be retlected from the undulying continuous bone in a single subperiosteal layer with a periosteal elevation

- The intrument that is most commonly used in onal surgery is the No.9 Most periosteal elevator.
- This instrument has sharp, pointed end and broader, moundy
- The No.9 Most periosteal elevation is typically used to tissue by 2 Methods.
- Prying motion to elevak soft tissue, most commonly when to be called by teeth | attached ginging abound
- 2 not Methodia Sciences

 2 not Methodia Sciences

 SVS Institute that and 1 instrument is slid under heath the periosteum seperating It from underlying bon.

pental Elevators

pental to luxate (loosen) leth from sumounding bone

By elevating teeth betone the application of forceps, to minimize

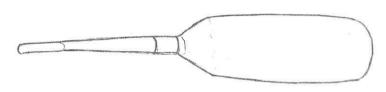
The incidence of broken crowns, mosts suborr

components of dental elevators - Handle, Shank and blade.

Side that placed towards the tooth to elevator.

application of tonceps.

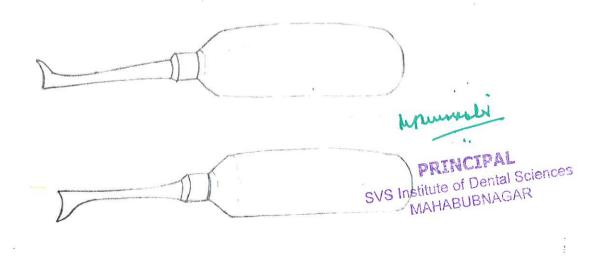
sockets & to luxate teeth that are more widely spaced.



2) TRIANGLE PENNANT SHAPED TYPE,

. It is provided in pairs - left & Right. It is useful when a broke noot remains in the tooth socket & the adjacent socket is empty.

- Cryen elevation is the most commonly used type.



pental Elevators

Used to luxate (loosen) teeth from surrounding bone.

By elevating teeth before the application of forceps, to minimize the incidence of broken crowns, noots & bone.

components of dental elevators - Handle, Shank and blade.

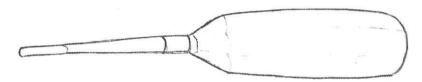
Types of elevations

STRAIGHT TYPE: - But has blade with concave surface on one side that placed towards the tooth to elevator.

· Used for beginning the Iuxation of an enupted teeth, before application of tonceps.

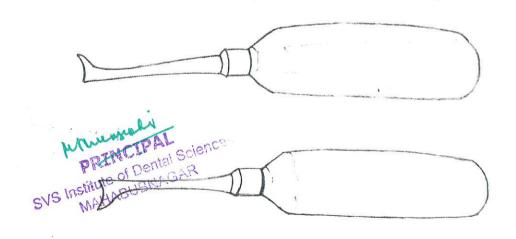
· Larger Straight frances elevations used to displace noots from the sockets is to luxate teeth that one more widely spaced.

Egi- Coupland elevation.



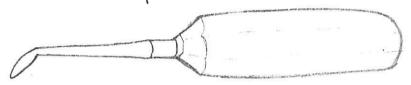
2) TRIANGLE PENNANT SHAPED TYPE,

- It is provided in pairs letter Right. It is useful when a bri noot remains in the tooth sockete the adjacent socket is empty.
- Conyen elevation is the most commonly used type.



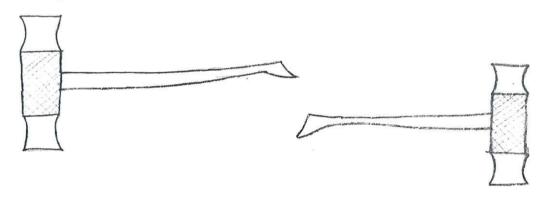
3. PICK TYPE ELEVATOR :

- · It is used to nemove noots heavy version of craine pick.
- · Used to elevate a broken most from took socket
- . The second type of pick is noot tip pick the apex elevator. It is the delicate instrument that is used to tease small noot tips from their socket.



CROSS-BAR ELEVATOR 1-

- Blade is at right angle to the shank and handle, blade is curry triangular in shape-
- cross bar handle is used on certain elevators. Type of handle can generate large amount of tonce & therefore must be used with greater caution.



-> DENTAL EXTRACTION FORCEPS:-

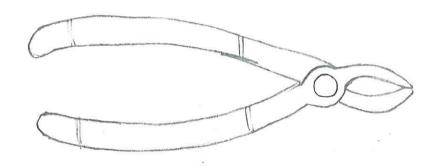
Components of dental extraction tonceps: Handle, hinge and beak.

Maxillary Anterion foncepsi

- They have identical beaks, that are closely principal.

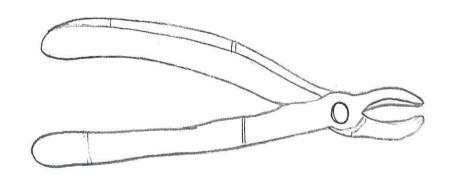
 Handles are straight
 svs Institute of gents straight

 MAHABUSNAGAR TO BE Droad
- Used for the extraction of maxillary incisors & conines.



Maxillary Penemolar forcepsi

- They have identical beaks that concave on side tacing the
- The beaks are broad and open. The curvature of blade is to accesses to priemolars placed posteriorly in arch.
- Rotation and buccal movements are given ton maxillary and only buccopalotal movements given for 1st PM.



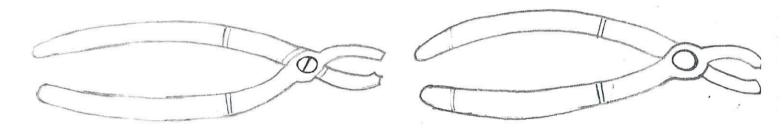
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Moullary Molan forceps

· Maxillary molar teeth are three mooted teeth, with single Palatal proof and buccal piturcation.

· Theretone, torceps that are specifically adapted to fit maxilla molars must have a smooth, concave surface for polatal proof and a beak with a pointed design that will fit into buccal biturcation.

· Molan tonceps come in pains: alett and night.

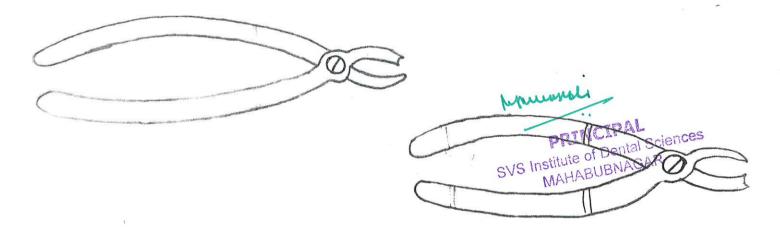


Maxillary Cowhonn fonceps: (Right and left)

. The forceps have widentical beaks one of which has single point and other bifid pointed tip. The single pointed tip engages funcation blw two buccal noots and bited tip engages pala 700H

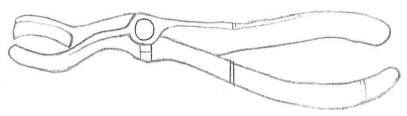
· Pained forceps

Used for maxillary teeth with excessive destruction of conoun, but trucation is intact.



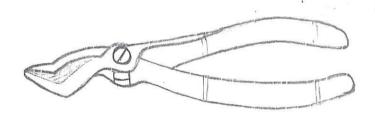
Maxillary third motor forceps 1-

The handles agre extra long a beak are angulated when viewed from side.



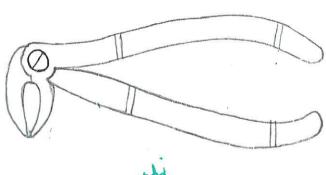
Bayonet Fonceps!

They have identical, pointed, angulated & closed narrow beaks-2tis, used to remove broken maxillary molar roots.



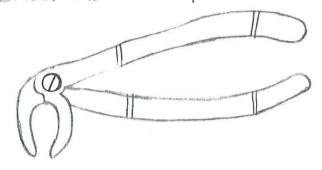
Mandibulan anterion forceps:

- They have identical broad, short & closed beaks, they are used for extracting mandibular anterior teeth. The joint is river joint unlike most forceps that have box joint. They are used to pextraction of mandibular incisors & canines.



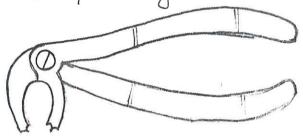
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Mandibulan Priemolan fonceps 1-They have identical broad open beals that are longer than beau antenion tonceps. - They are used to extract mandibular priemolar.



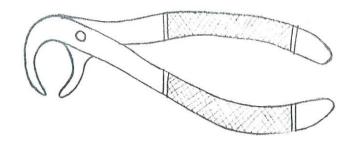
Mandibular Molan Forceps 1-

- They are straight handled, beaks are set obviously downward. The beaks have pointed tips in center to be set into the bitwication at buccal & lingual surfaces.
- They are not paired
- All molar are extracted by buccolingual movements.



Mandibular Cowhorn Forceps (-

- They have identical open short & pointed beaks that mesemble the horins of cow, the beaks are nound and tapens to a point
- The forceps guips the tooth at biturcation between mesial & distal mook.
- Use => Grossly decayed carious mandibular molan. SVS Institute of Liental Sciences MAHABUBNAGAR

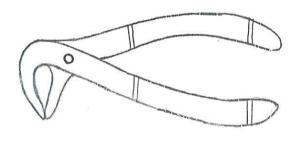


Mandibular Root Forceps:

wayiyaya V.

They have identical stender beaks that are closed, beaks are longer than that of priemolar torceps.

Use: Removal of most stumps of all mandibulary teeth.



XB.

PRINCIPAL

PRINCIPAL

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Oral Surgery Case History & Treatment Exodontia

Name of the patient Balaiah

Date: 15/10/22 O.P.No. 2 2 2 8 0 83

65

Sex: M

Farmer Occupation

Mahabubnagar Address

Patient complain pain and loosening of tooth in Chief Complaint years. Posterion negion fon the past two

History of Present illness Patient was apparently assymptomatic 2 years back, later he noticed loosening of teeth and pain in upper right posterior region. Pain is gradual in onset, continuous throbbing type g pain which aggrevates on eating and neleaves after some time.

Medical Histrory Known hypertensive patient, undermedication since two years.

Dental History 1st Visit

Diet: Mixed Appetite: Normal

Personal & Family History

Bowel & Bladda mout : Normagus Institute of Dental Sciences Habils: Noadvoue habib

General Physical Examination

Built - Moderate

Gail Normal

Ganosis - No abnormality detected

Icierus - No obnonmality detected

Skin Eruptions - No abnormality detected

Lymph Nodes - On palpation, no abnormality detected

Vital Signs

Blood Pressure 120 90 mm/tg

85 bpm Heart Rate

Respiratory Rate 18 (ycles) min

Atchnile Temperature

ASA Classification

Tick the oppropriate	Class I	Class II	Class III	Class IV	Class V
	-				

Extra oral examination:

Symmetry: No gross tociol assymetry

Month opening Adequal

Bilateral Synchronous Property with no clicking & Pupping sounds.

Y acal	Evan	ination
LIVERIE	MIASSES	BHHISTEROID

Soft Tissue Examination:

NO Competent

Buccal Mucosa

Normal

Nonmal

Tongue

Floor of the month Normal

Hard palate Nonmul

Mosmal

coral pink, Generalized Recession

Hard Tissue Examination

No. of teeth present 2.8

No. of missing teeth $\sqrt{7}$

Decayed Teeth — b

Root Stumps

Grade II: 3/68 Grade III: 76

Chronic generalized Periodontitis in. + PROVISIONAL DIAGNOSIS INVESTIGATIONS Intraorial peciapical radiograph in 71.125

FINAL DIAGNOSIS Chronic generalized periodontitis

TREATMENT Extraction in 71-1 876

POSTOP MEMO:

Menue Supply

16: Buccal: Posterion Superion Alveolar Nerve Pulp: Posterion Superion Alveolar Nerve, Middle Su Palatal: Careater Polotine Nerve

17: Burral: Postaion Superion Alveola Newe Pulp: Posterion Superion Alveola Newe Polatal: Greater Palatine Newe

18: Buccal: Posterion Superion Alveolar Neve pulp: Posterion Superion Alveolar Nunc Palatal: Greater Polatine Neve

Neure Blocks:

Buccal intiltration in 1 76 |
Greater Palatine New block

Theatment Done:

Extraction done 1 LA (2% Lignocaine) i. n. 1 97 6

Post Extraction instructions given & medications prescribed.

Po BID 3 days after meals.



Oral Surgery Case History & Treatment Exodontia

Name of the patient KONDANA

Date: 2/2/23 O.P.No. 2228702

Age 60

Sex: M

Occupation Farmen

Address Kurumurthy Nagan

Chief Complaint: Pattent complains of lossening of teeth in upper night and left tooth region since 14ear.

History of Present illness Patient was apparently assymptomatic one year back, later he noticed that loosening of teeth in upper night elett back teeth negion and not associated with pain and swelling. No aggrevating and neleaving factors.

Medical History NO known medical history

Dental History

1st Visit: Extraction

and visit: Extraction

3rd Visit :

Personal & Family History

Mungahi

General Physical Examination

Buit - Moderate

Cait - Nonmal

ganosis - No. abnormality detected

Idenus - NO abnonmality detector

Skin Eruptions - No abnomality detected

Lymph Nodes - On palpation, no palpable lymph nodes tound.

Vital Signs

Blood Pressure · 120/80 mm Hq

68. ppm Heart Rate

Respiratory Rate 13 Cycles min

Temperature Atebnile

ASA Classification

Tick the oppropriate	Class I	Class II	Class III	Class IV	Class V
	V				

Extra oral examination:

Symmetry: No gross focial assymmetry

Month opening Adequate

T.M.J.: Bilatual synchronous movement with no clicking

Local Examination

Soft Tissue Examination:

ips - competent

Buccal Mucosa - Nonmal

Tongue - Nonmal

Floor of the month - Nonmal

Hardpalate - Nonmal

Soft Palate - Nonmal

Gingiva - comonal pink, Generalized necession.

Hard Tissue Examination

No. of teeth present

No. of missing teeth 76 5 U 3 2 1 123 U 5 6 7 8.

Decayed Teeth

Root Stumps

Grade 8 1 85

PROVISIONAL DIAGNOSIS Chronic generalized periodontitis int

INVESTIGATIONS OPG

TREATMENT Extraction of $\frac{85}{8}$

POSTOP MEMO:

Name supply: Pulpal innervation: Interior alreador nerve Buccal: Long buccal nerve Lingual: Lingual Nerve.

Newc blocks Given;

Interior alveolar nerve block Long Buccal herve block Lingual Norve block.

Treat done

Extraction done JLA (2/ Lignocaine) in 1.7.1.

Post extraction instructions given & medication preservibe

TAB. COMBIELAM ____

(hoomg) + Paracetomos (325 mg)

PO | BID | 3 days | attermeds.

SVS INSTITUTE OF DENTAL SCIENCES

APPANPALLY, MAHABOOBNAGAR.

DEPARTMENT OF ORAL & MAXILLOFACIAL **PATHOLOGY**

Certificate



This is to certify that Hassni Bodapalla	has	satisfactorily
completed the record work that has been prescribed by		

NTR UNIVERSITY OF HEALTH SCIENCES in DEPARTMENT OF ORAL & MAXILLOFACIAL PATHOLOGY,

for III rd year BDS During the year 20 23 to 20 24

Date: 9/12/23

Reg No: 2002106010

Contraction of the Contraction o

Staff Incharge

Dept of Oral & Maxillofacial

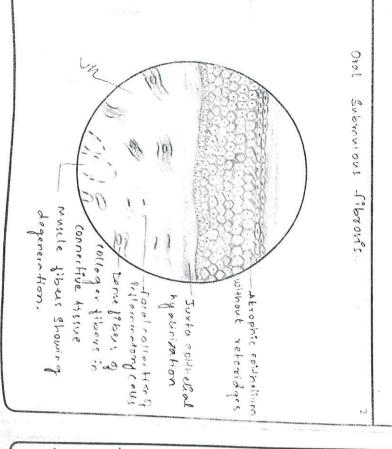
Pathology

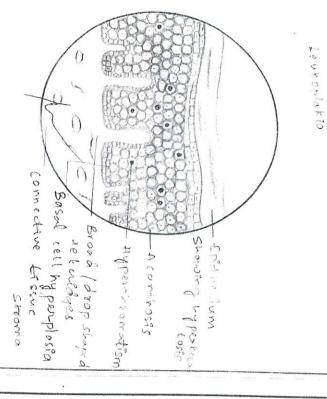
Prof & HOL

PRINCIPALDept of Oral & Maxillofacial

SVS Institute of Dental Science Pathology
MAHABUBNAGAR

No.	INDEX	Signature
I.	Premalignant Lesions & Conditions :	
	1. Leukoplakia	0
	2. Oral Submucous Fibrosis	
II.	Benign & Malignant Non - Odontogenic Tumors:	
	1. Squamous Papilloma	
	2. Well Differentiated Squamous Cell Carcinoma	11 28
	3. Verrucous Carcinoma	1 \ 11 3
	4. Basal cell carcinoma	1/
	5. Peripheral giant cell granuloma	
	6. Central giant cell granuloma	
	7. Capillary Hemangioma	
	8. Lymphangioma	
	9. Ossifying Fibroma	
	10. Lipoma	
	11. Hodgkin's Lymphoma	
m.	Tumors of Salivary glands:	$\left[\wedge \right]$
TIT!		
	•	
1		
	3. Adenoid cystic carcinoma	
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.	5. Mucocele	11 11 2
IV	Odontogenic Cysts:	11 110
	1. Odontogenic Keratocyst	
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V	Odontogenic Tumors:	
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1	3. Acanthomatous Ameloblastoms	()
	Adenomatoid odontogenic Tumor (Pindborg's Tumor)	
vi	Infectious Lesions:	
	1. Pyogenic Granuloma	
1	2. Tuberculosis	
1	3. Actinomycosis	
VII	Dental Caries :	Ι
122	Smooth surface caries	1) UNV
	2. Pit & fissure caries	
vm	Diseases of Pulp & periapical tissues:	
YAAA	Periapical granuloma	
	2. Osteomyelitis	
IX		
TV.	Diseases of Bone: 1. Fibrous Dysplasia Diseases of Skin:	\
\mathbf{x}	Diseases of Skin:	
	PRINCIPAL	
1	SVS Institute of Dental Sciences	
1	2. Pemphigus MAHABUSNAGAR	





-) Bulbows drop shaped seteridaes > by splastic changes - disordered growth -> connective time thoughts - try perkeratoris is seen on the surface agent except use of tobacco. -> -Cp 1 thetial changes - 1. Acenthoses of epithelial cells. a Basal cell hyperplasions 3. Vacuolar degenerations

cannot be characterized chinically or participants as any other distance and is not associated

is a waitish patch or ploque that

LEUKOPLAKIA

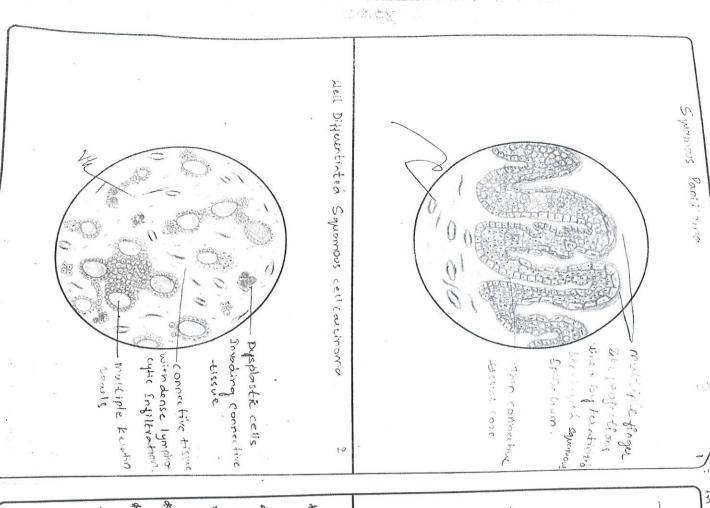
ORAL SUBMUCOUS FIBRUSIS

preceded by vericle formation as it is always anociated trismus and difficulty in eating. with juxta epithelial inflamatory accution followed by atrophy leads to stiffers of oral mucosa cousing fibroblastic changes in lamina peopeia with epithelial Advanced stages - homogenization and typienization of oral epithelium is a traphic with tous of relevilages tibroblastic activity. Early storges - connective there exhibit timely dibriller collagen intercellular eduma and increase

collagen tibers

Degeneration of muscle fibers

MAHABUBNA



Rance Okolotion

surface of the mucosa reach motor up of or stratifical equamous expiration tinger like projections extending (hospacteristic and consist) and containing a tain, central connective tissue core that supports the nutrient blood Venels. perinuction clear spaces and nuclear pylinosis) kilontes (MPV) altered epithalial wells with the microscopic appearance of the papillama is may or may not be bound in the superficial SQUAMOUS PAPILLOMA. of many long, thin

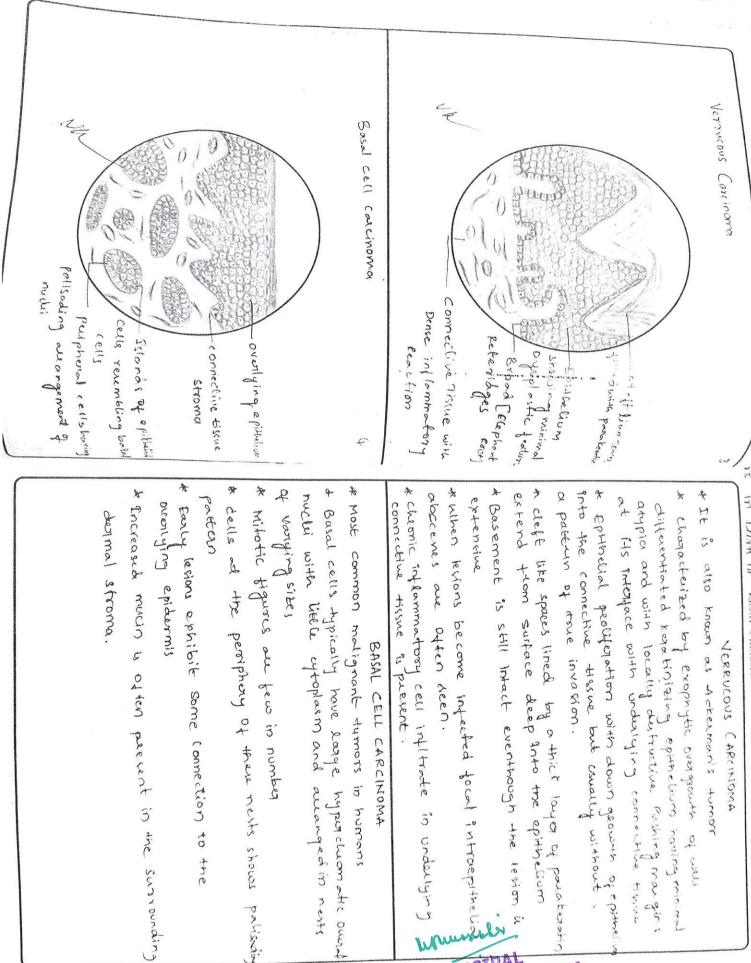
the connective time present is only a suppositive stroma and is not corriduod - Part be variably noted payors of epithelium. neoplastic dement. presence of cheanic inflammatory cells may in the connective tiskue.

* It consists of sheet and nests of cells with obvious ortgin from squamous epithetium WELL DIFFERENTIATED SQUAMOUS CELL CARCINOMA

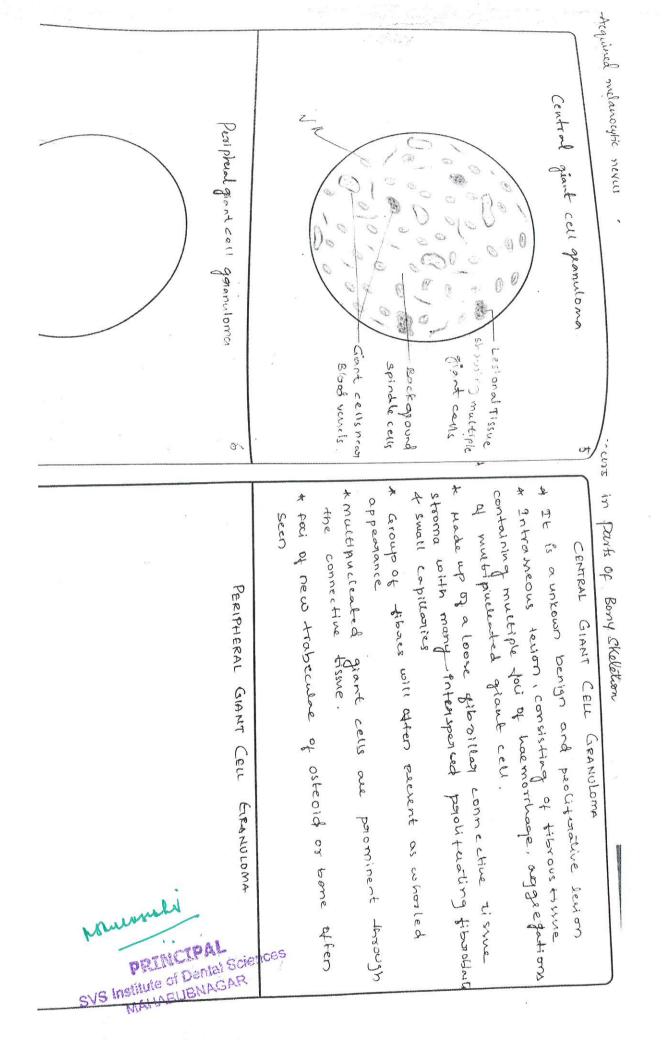
or cellular to nuclear ple amorphism is high * characteristic feature is presence of individual cell authorgh intucerlular bridges or tongibrile are demonstrated keantinization or kennthn pearls of ranging sizes Cells are longe and shows a distinctive cell membrane

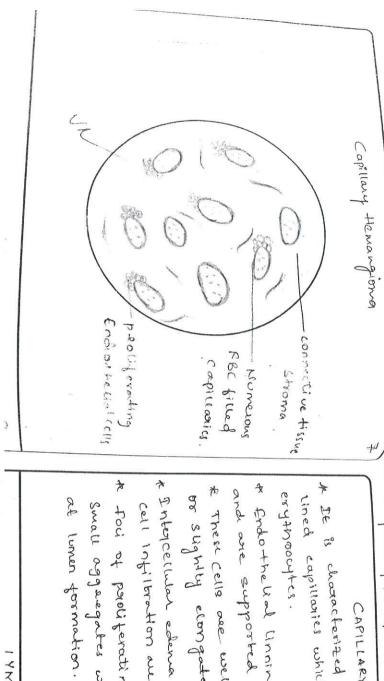
I Mitotic activity may be may not be seen * malignant cells can be found actively invading a connective tissue

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* withen texions become intected focal intracpitation * cheonic inflammatory cell inflorate in underlying * Basement is still intact eventhough the lesion is a deft like spaces lined by a thick layer of parateration extend thom surface deep into the apithelium Into the connective these but awally without a paterin of the invasion. abocienes are often seen. A It is also known as Ackerman's tumor * characterized by exophytic overgrowth of well at its interface with industrying connective time in Dark or Room choloten differentiated kerationizing epithetion having mangin; atypia and with locally destructive Pushing mangin; connective tissue is present BASAL CELL CARCINOMA VERRUCOUS CARCINOMA





just in Parts of Bony Skeleton

-xcdminn

CAPILLARY HEMAMGIONA

Lined capillaries which are densely packed with
exythogocytes.

* Endothelial linning cells are single layued and one supported by connective theme strong and one sughtly clanged and plump.

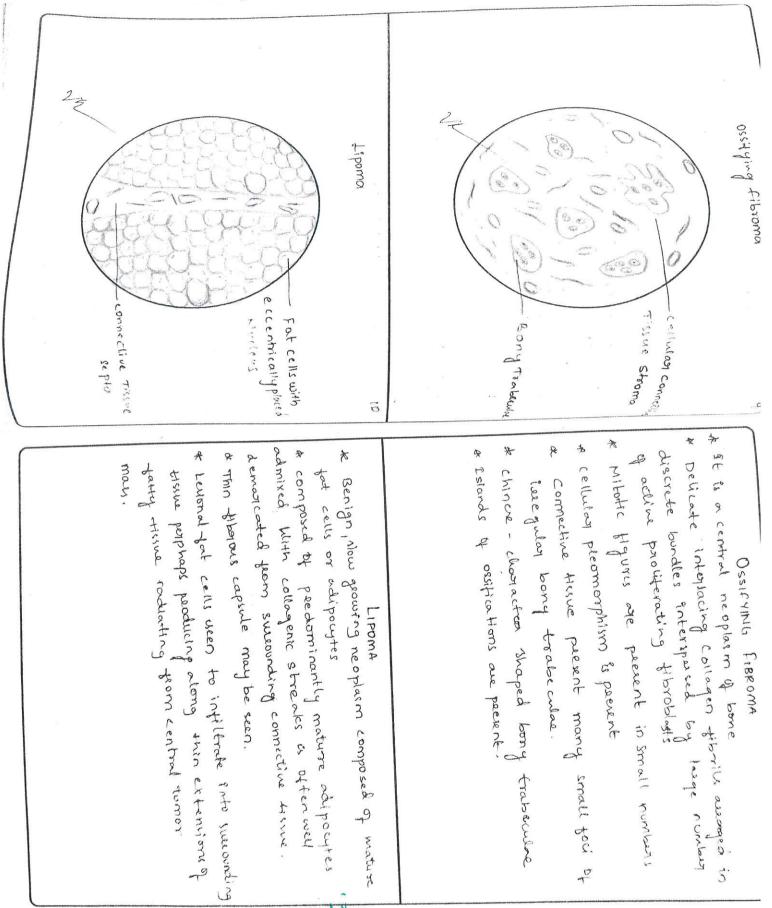
* Intercellment edence and chronic inflammatory to shoped and plump.

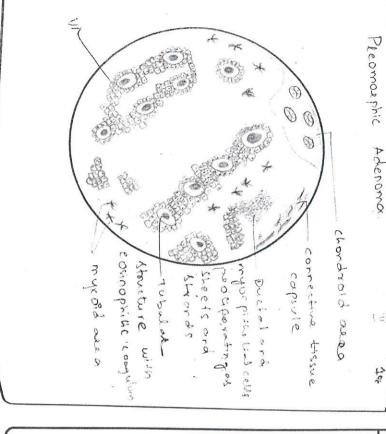
* Entercellment edence and chronic inflammatory to shoped and plump.

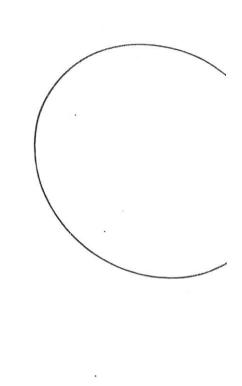
* Small aggregates which lack in their attempt small aggregates which lack in their attempt.

- YMPUAGIOMA

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PLEOMORHIC ADENOMA.

- Mell - circumscribed & encopsulated man.

- shows glandular epithelial and mesenchymol

- shows 3 main components

- cpithelial components

- myoepithelial components

- forms duck or small cylitic space that may contain

- forms duck or small cylitic space that may contain

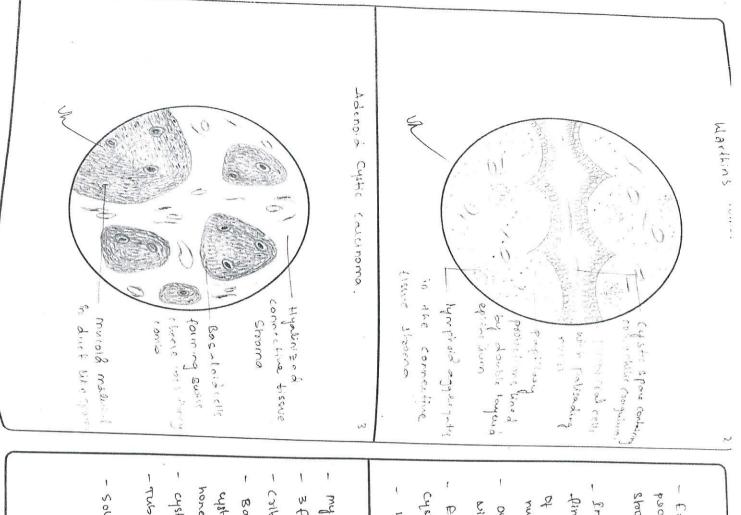
- some one sound with ecentric nuclei and hyaliniped

- some one sound with ecentric nuclei and hyaliniped

- some one sound with ecentric nuclei and hyaliniped

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MARTHIN'S TUMOR

. Inner layers of cells - tall columnar, cosmophilic - Exhibit west formation, with ductal epitation finely granular cytoplasm du la preune stroma showing germinal centres. projection into cystic space and lymphoid

of mitochordula and sughtly hyperchromodyc nuclei. with unicellube nucleus. outre - layer cells are cuborded to polygonal.

cystic spaces Esoinophilic , coo-gulum present within tymphoid stroma - germinal centre formeties.

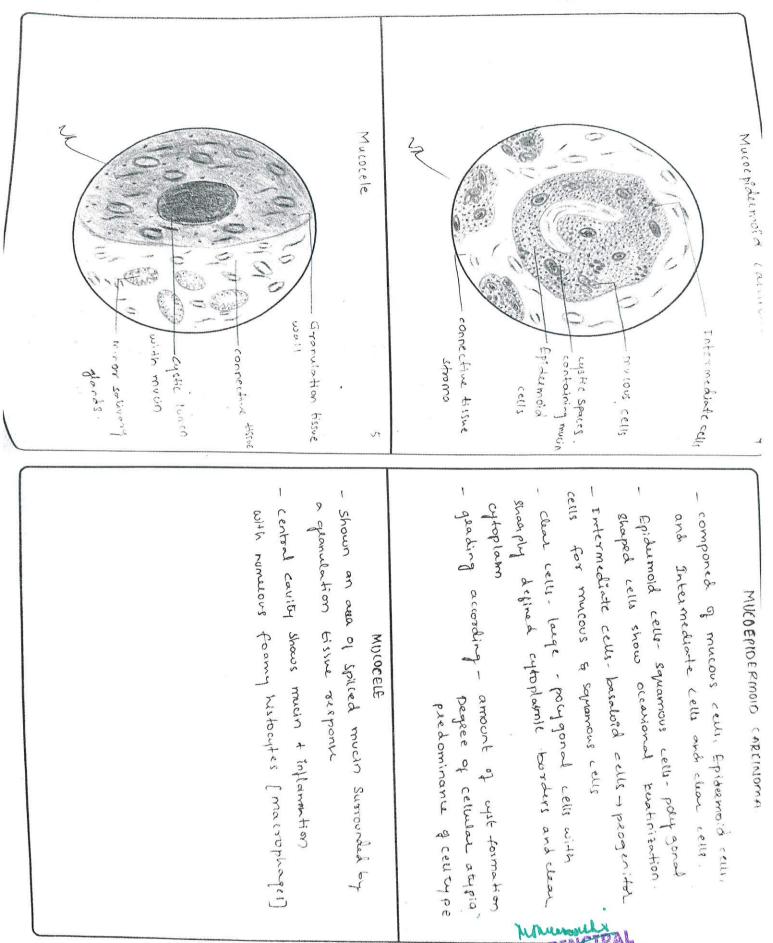
ADENOID CYSTIC CARINOMA

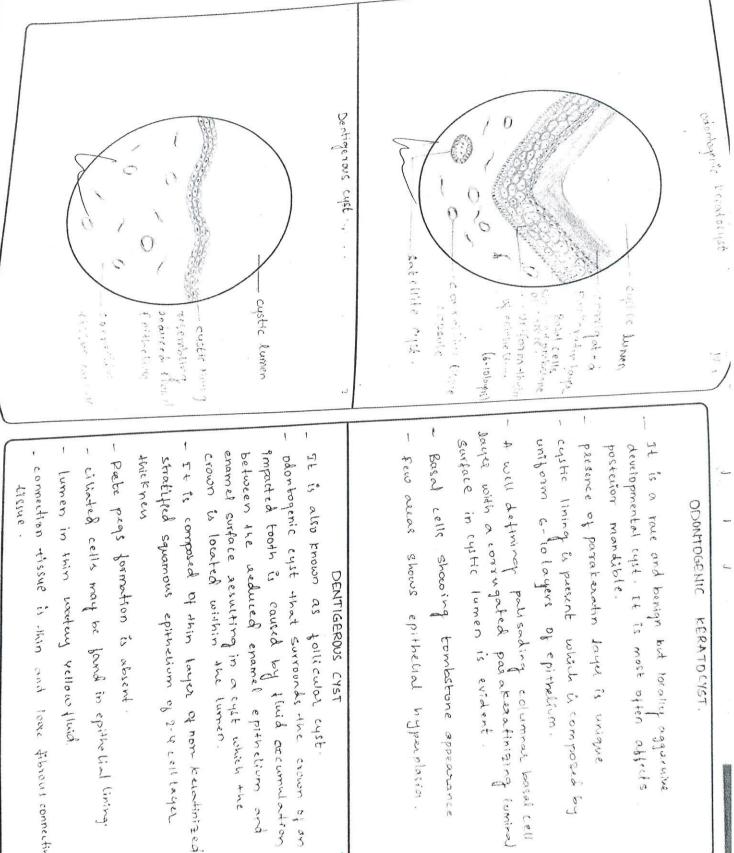
- cribiform patter: (classic type, most common) honey comb pateress my originated cells, Ductor cells in varied autoingments 48ts like + spoke demember Swiss - cheese (0x) 3 forms: cribiform, tubular, solid (basaloid) Basadold cell in nuti-form multiple cylindrical

- cystic spaces contains PAS due mucopoly granhaide - tubular pattern: lined by stratifica cuboidal - solid group of euboided cells with little tendency Epitalium

towards eyst (or) dust formation.

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ODONTOGENIC KERATOCYST.

egitic lining is present which is composed by unitorm 6- to layers of epithelium. It is a rove and benign but locally aggressive presence of parabonatin layor is unique developmental cyst. It is most often affects posterior mandible.

It is also known as follicular cyst. DENTIGEROUS CYST Basal cells showing tombstone appearance

sew areas shows epithelial hyperplasion

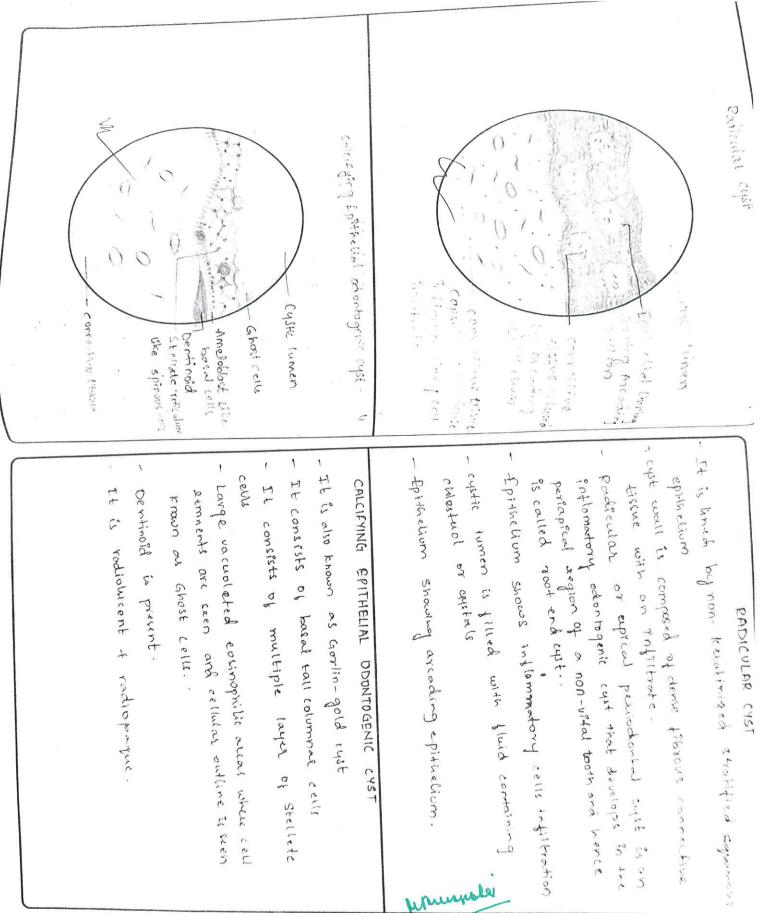
crown is located within the turner. Impacted tooth is could by this accumulation between the arduced enamel epithelium and odonbogenic cyst that surrounds the excum of an

stratified squamous epithetium of 2.4 coll layer thick new It is composed of thin layer of non- kellotinized

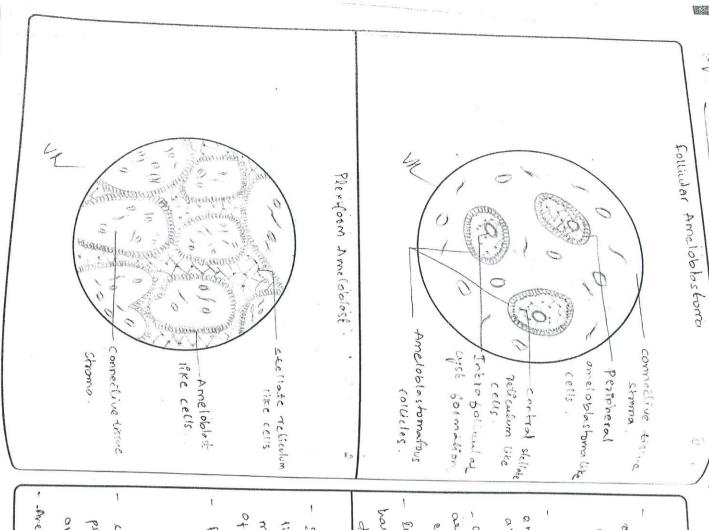
- Paste page formation is absent. citizated cells may be found in spithetial living. connection tissue is thin and loak fibrous connective lumen in thin working yellow fluid.

Tisine

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FOLLICULAR AMELORLASTOMA.

The contains of mony small discrete Estends
of tomor composed of a peripheral layer of
of tomor composed of a peripheral layer of
cuboided or columnate cells whose nuclai
cuboided is a central man of polyhedral tomely
enclosed is a central man of polyhedral tomely
enclosed is a central man of polyhedral tomely
carranged cents reumbling stellate reticulon.

arranged cents reumbling stellate reticulon is
excited and examined cruefully.

excited and examined cruefully.

excited and examined cruefully.

excited and examined cruefully.

the order tissue
complete breakdown are with the tissue
degeneration.

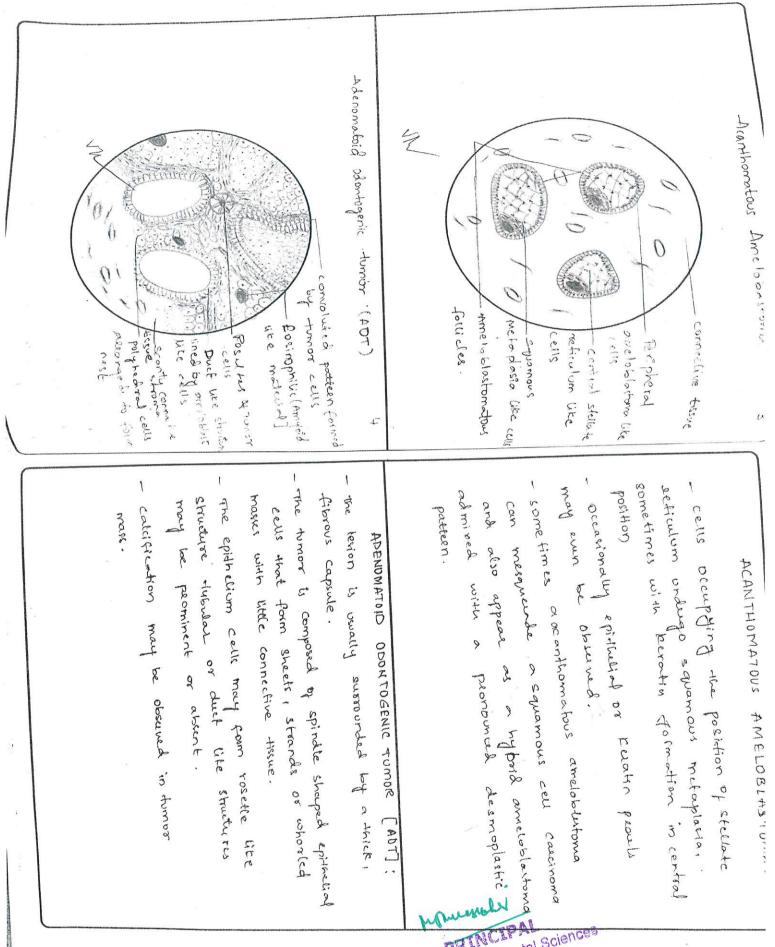
- In plexiform ameloblashoma the ameloblash the tomor cells are arranged in irregular tike tomor cells are arranged in irregular of interconnecting stronged in irregular of interconnecting stronged in irregular of a layers many be found stellate reticulum like cells.

Like cells.

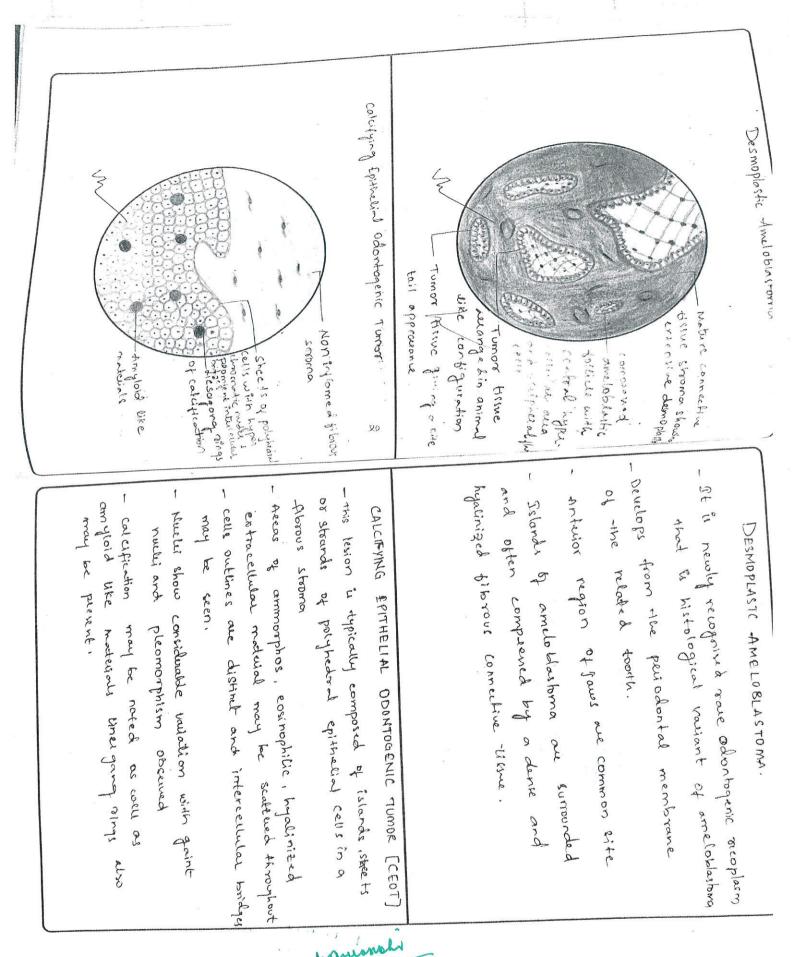
Like cells.

Like cells.

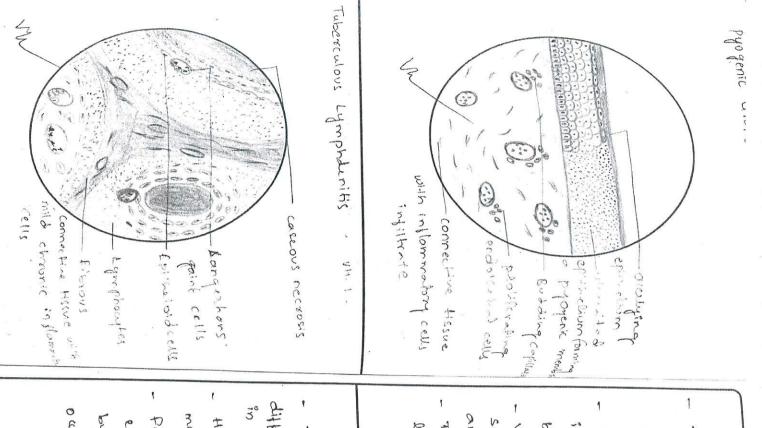
Areas of cystic digeneration of strong are also common ameloblashome.



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PYDGENIC GRANIJIOMA.

Histological appearance of progenic aronaloma
is similar to tent of granulation tissue except
is similar to tent of granulation tissue except
that it is exerberant and is well localized.

is similar to that of granulation the is similar to that of granulation the overlying epithelium progenic granulament the overlying epithelium present is generally thin and atrophic but may be hyperplastic.

- vast numbers of endothelium lined vascularspaces and extreme proliferation of tibroblastic
and budding endothelial cells.

There is intense intiltration of polymos phonuclear

leuko upter lymphocytes 4 plasma cells.

TUBERCULOUS LYMPHOENITIS

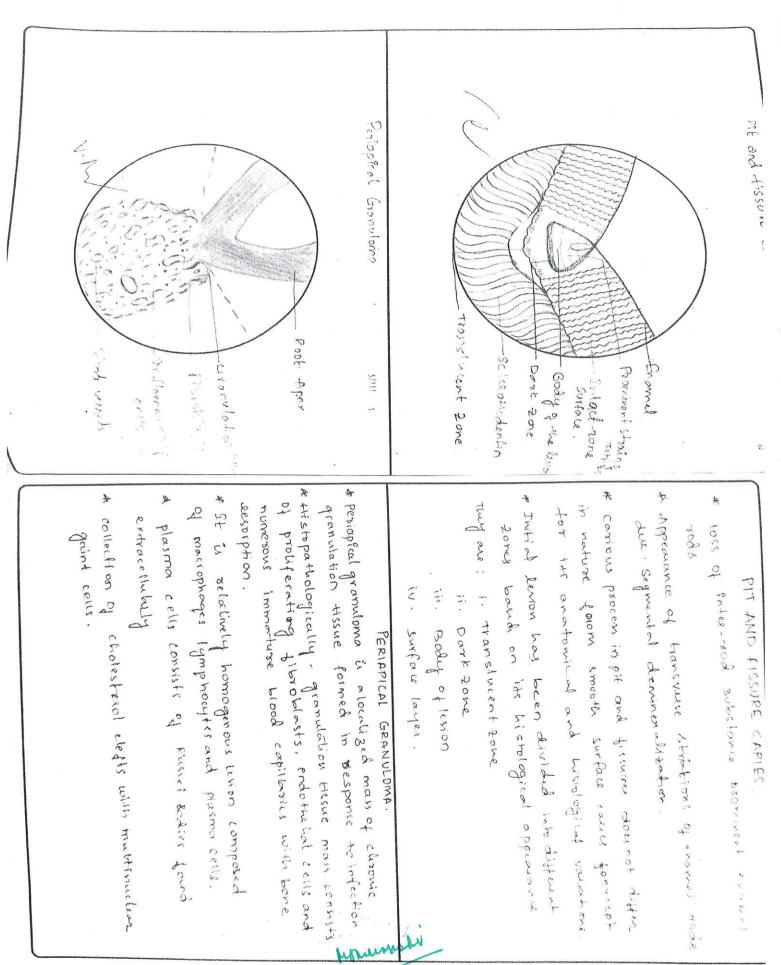
- Tuberculous lesions in the mouth do not differ microscopically from tuberculous desions in other organs of body.

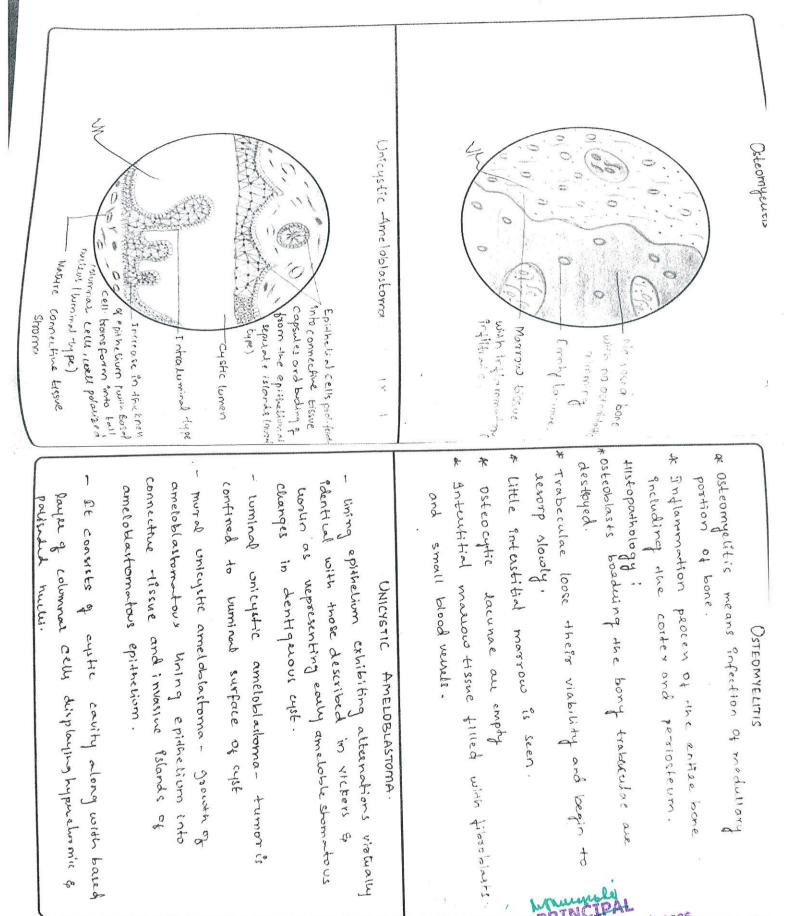
thetopathologic appearance is due to cell mediated hypersensitivity reaction.

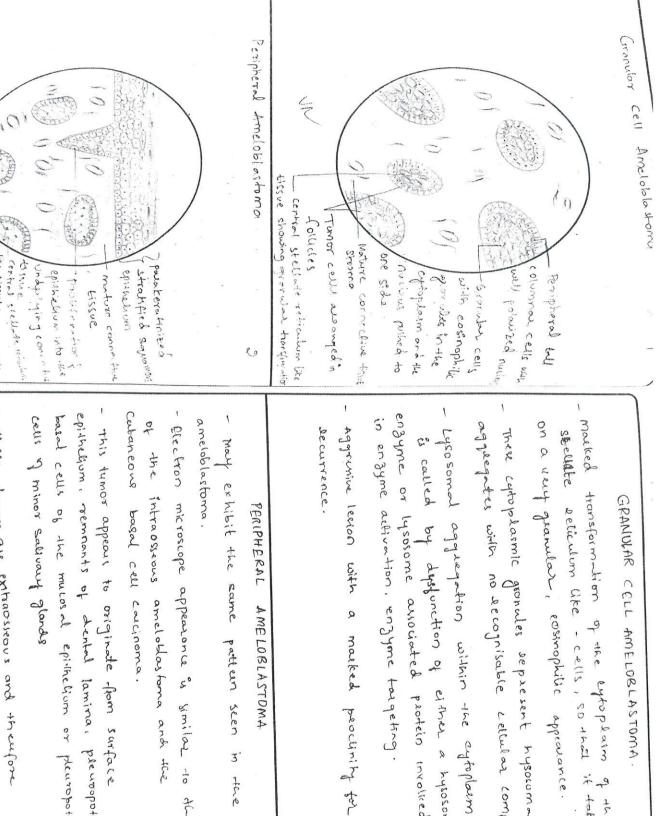
mediated hypersensitivity reaction.

Pormation of granulomon also called tubercle exhibits for of caseous necrossis surrounded by epithelialioid cells. Hymphocytes and by epithelialioid cells. Hymphocytes and by epithelialioid multinucleated tomphonytes and

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GRANULAR CELL AMELOBLASTOMA

marked transformation of the extoplain of the - Lysosomal aggregation within the cytoplasm enzyme or lysosome amoriated protein involved in enzyme authoration, enzyme tougeting. aggregates with no recognisable cellular components, on a very granular, easinophilic approxance. Three cytoplasmic groundes sepresent hysosomal strengthe reticulum like - cells, so that it taken is called by dystunction of either a hysosomal

PERIPHERAL AMELOBLASTOMA

- many exhibit the same pattern seen in ameloblastoma けなゆ

Certaneous - Electron microscope appearance às similar to that of the intraosseous ameloblastoma and the basal cell carcinoma.

- these tumos are extraosseous and therefore epithelium, remnants of dental lamina, pleuropotent occupy the Lamina propera undereneath the cells of minor salivary glands based cells of the mucosal epithetium or pleuropotent Surpace epithelium but outside of the bone.

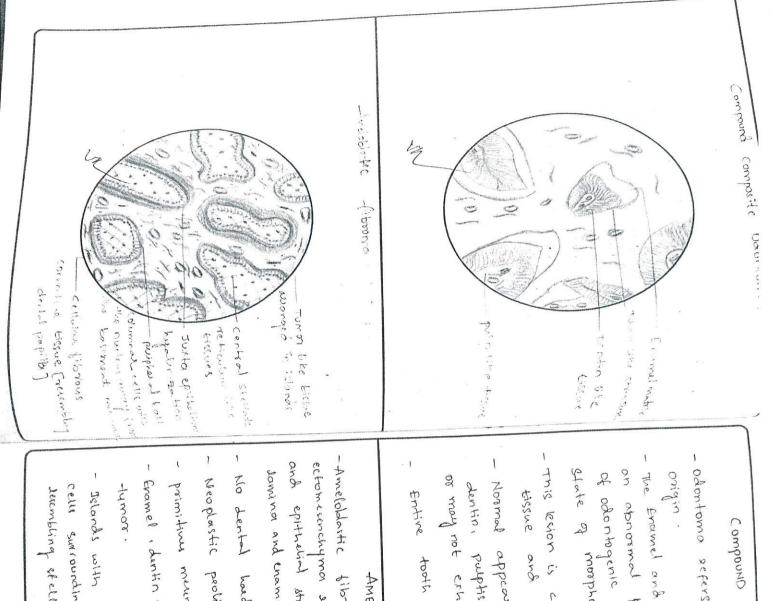
(allewith well potalized nucleus place of the well-haven party

beligheral toll columnati asserbly infolicity

. Tomas house calls

SUMPLY CHANG

MAHABUBNAGAR



compound composite and two of adontograins

origin

The framed and denting our usually but soon in
on abnormed pattern because the organization
of adontograins fells failth to seach the normal
of adontograins fells failth to seach the normal
tissue and have round composite adontors

tissue and have round composite adontors

dentine putphisme I and comentum which may
dentine took like structure is seen.

Entire took like structure is seen.

AMELOBLASTIC FIBROMA

-Amelobastic fibroma consists of adontogenic ectomesenchyma sesembling the dental papilla and epithelial strands and nests resembling duntal sominar and enamel origin

- No dental hard tissues are parent

- Neoplastic proliferation of epithetium (dental (amin))

- primitum meunchymal (emponents (dental papiller))

- Enamel I dentin and "cementum not formed in this

Islands with perpheral columnar epithetial certs cells surrounding bouch areanged epithetial certs testentian.

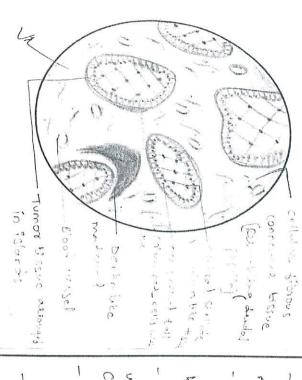
Amelois to fibro our

AMELOBLAS TOMA

FIBRO

DENTINOSA

, 10 , 0



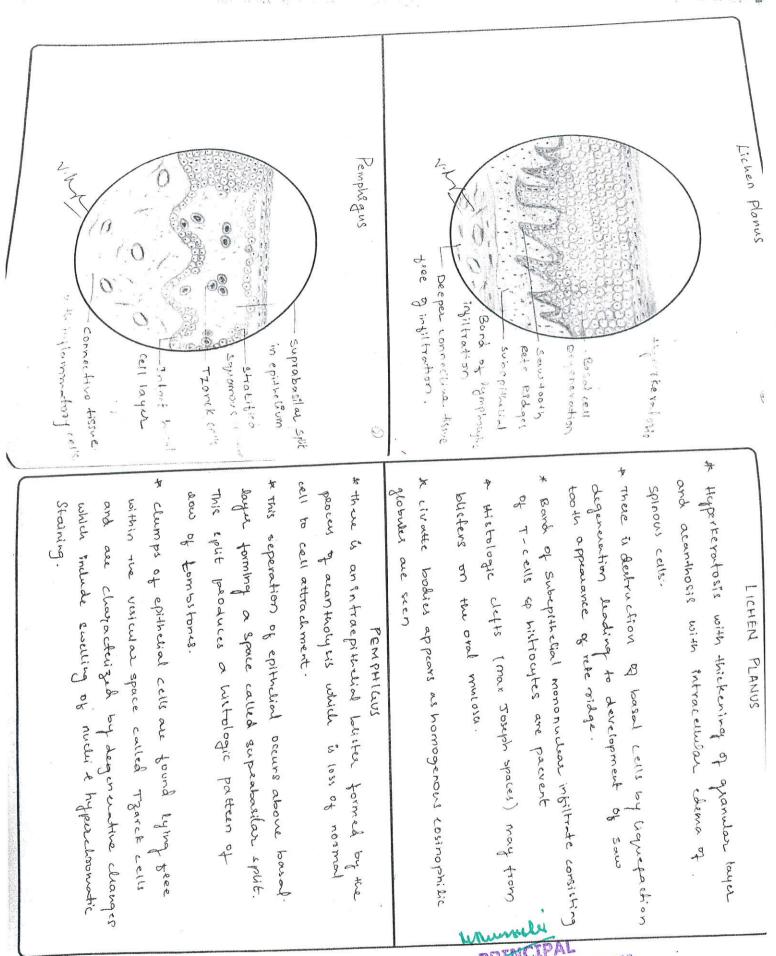
fibrous Dysplasia

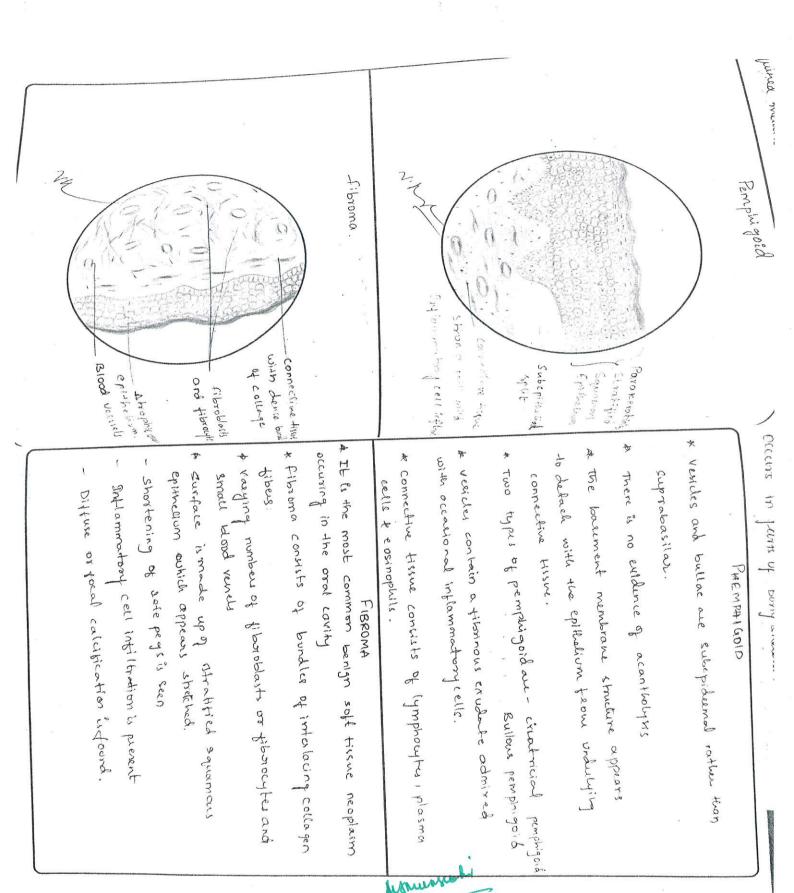
without asteoblishing wave a some issegular Bory Connective tissue Habeculae られ いかの TIMMING -cellular

> - Areas of dentinois and osteodentin formation - proliferating adombogenic epitalium amociated cords and islands. with ectomeunchymol cells assumed in strands, - st is an intermediate stage between ameloblastic - Ameloblastic fibrodentinoma by the formation of day plastic dentin. mixed atontogenic tomor preceeded It is composed of adont-openic epithelium Emmature connective rissue and is characterized bibroma and ameloblastic odontoma. by a zone of hydinization a sace benign

FIBROUS DYSPLASIA

* Connective tissue consists of mononucleon cells * It is uncommon, non-hereditary, developmental a multiple delicate capillaries are found throughout a osteoblastic orimning of bond trabeculae & absent * Bony trabeculae is seen to chinese pattern * Numerious isregular c-shaped bony trabecular c desembling fibeoblasts & peogenitor osteoblasts anomaly of bone due to defect in osteoblastic differentiation and maturation. be seen not connected to each other lesion





CERTIFICATE

CONSTITUTION OF THE STATE OF

This is to Certify th	at Mr. Miss_	B. BHARGAV	<u> </u>	has
done the following Clinical	Work in Dept.	of Oral Medicine,	Diagnosis b	Radiology
during the acdemic year_	2023 - 208	14.		

- 1. Case Presentation 15 Short case history + 5 long base history
- 2. Radiographs 45 Intraoral periapical radiograph + 5 Bitewing stadiograph.

His | Her work has been found satisfactory during the period.

Date: 12/08/2024.

Professor





ORAL MEDICINE, DIAGNOSIS & RADIOLOGY CASE SHEET

+ Name Santhosh

Date: 14/03/23

+ Address: Mahabuhnagar

Ago: 20 sex: male

+ Chief Complaint: Patient complains of broken tooth in his upper front teeth region since 6 months back.

- + History of Present Illness: Patient was apparently asymptomatic 6 months ago then he noticed broken teeth in his upper front teeth region which was associated with trauma due to fall from bike with no aggrevating & relieving factors.
- + History of Past Illness:
- + Medical & Drug History: No relevant medical history & drug history
- + Family History: No relevant family history

+ Personal and Social History: - Appelite: Normal: Sleep: Adequate

- (a) Marital Status: Unmarried.
- (b) Habits: NO.
- (c) Occupation: Student
- (d) Weight ! 50 kgs.
- + Systems Review
- + CLINICAL EXAMINATION:
- + General Examination
- + General Appraisal (Including Vital Signs when Indicated)

+ Head:

Skull

Normal

Eyes

Mormal

Nose

Normal

- + Skin: No scars & rashes seen.
- + Neck:
- + Jaws:

Intra Oral Examination:

- (1) Lips: Competent
- (ii) Labil / Buccal & Muscosa: Hormal
- (iii) Palate: Normal
- (iv) Oropharynx: Normal.
- (v) Floor of the Mouth: Normal
- (vi) Tongue: Nonmal
- (vii) Gingiva:
- (viii) Teeth:
- (ix) Oclnsion:
- (x) Edentrulous Mouth:
 - (xi) Partal Edentrulous Mouth

Local Examination of the Lesion:

Summary: A 20 years old male patient by name santhosh, student be occupato came to department with complaints of broken tools in upper front teeth region 6 months ago which was associated with trauma due to fall from the blue with no aggrevating & relieved factors. on soft tissue examinate, gingiva is corol pink if time resilient, stippling prount on Hard tissue examinate total no of teeth are 31, missing teeth to chossly decayed to, Ellis class I till class I till the ellis class I total and consect as colculus mild. Based on above crnical findings it is provisionally diagnosed as chronec greversible pulpitis -16.

1. chnonic irreversible: pulpitis int + Provisional Diagnosis:

2. class I deep dentinal caries to
3. Ellis class III fracture 12
4. Ellis class II fracture 12

5. Ellis class I fracture 13.

Differential Diagnosis: +

2. Periapical abscess to 3. Periapical granuloma

Rud ist 10. Investigation:

Final Diagnosis: 2 periopical cyst +2

2 periopical obscessist -16

3 ellis class I fracture +3

4 class I deep dental cases -6.

Treatment Plan Advised Extraction int -126 & followed by replacement with fixed prosthesis Advised yout canal treatment + advised restoration art 13.

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Gingiva

colour : coralpink

Contour: Scalloped

consistency: firm & resilient

Surface texture: Stippling seen

HardTissue

Teeth present: 31

Teeth absent 1 =

Decayed teeth: Grossly decayed to.

Fractures: - Ellis class I +3

ellis class I + 1

Elli's class II -12

mobility :- Grade I H

Stains :- moderate

calculus

Radiographic findings 1Rvg neveals loss of crown structure involving enamel, dentin lyt +, gross loss of crown structure involving enamel, dentin, pulp. Loss of lamina dura with ill defined gadiolucency at apical 1/3rd of 700t irt +2. Rvg also pool of the gross loss of crown structure involving enamel, dentin pulp & loss of lamina dura at apical vard of noot of to.

> Mouroph SVS Institute of Dental Sciences MAHABUBNAGAR

ORAL MEDICINE, DIAGNOSIS & RADIOLOGY

CASE SHEET

Name Nazreen Begum Date: 18/03/23 . Address: HabeebNagar Ago: 32 Sex: Female Chlef Complaint: Patient complains of pain in her lower night + back tooth region since I year. History of Present Illness: Patient was apparently asymptomatic + I year ago then she developed pain in her lower right back tooth region which was gradual in onset intermittent in nature severe intensity, throbbing type, non-radiating, aggrevates during night, temporarily relieves on medication + Medical & Drug History: No nelevant medical & drug History Family History: No relevant family history + Personal and Social History: Appetite: Normal. Steep : modequate + (a) Marital Status: Moviried (b) Habits: No (c) Occupation: House wife (d) Weight : 60 kgs. + Systems Review + **CLINICAL EXAMINATION: General Examination** + General Appraisal (Including Vital Signs when Indicated) Skull Normal + Head: Normal Nose Normal No scars & mashes seen. PRINCIPAL SVS Institute of Dental Sciences + MAHABUBNAGAR Neck:

+

Jaws:

Intra Oral Examination :

- (i) Lips: competent
- (ii) Labil / Buccal & Muscosa: Normal
- (iii) Palate: Normal
- (iv) Oropharynx: Normal.
- (v) Floor of the Mouth: Nonmal
- (vi) Tongue: Normal
- (vii) Gingiva:
- (viii) Teeth:
- (ix) Oclnsion:
- (x) Edentrulous Mouth:
- (xi) Partal Edentrulous Mouth

Local Examination of the Lesion:

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Begum, housewile by occupation, nesident of Habeebrogar came to deposiment with chief complaint of pain in her lower right back tooth negion since I year and then she developed in her grodual in onset, intermittent in nature, severe intensity, throbbing type, non-radiating, aggrevates during night. On soft tissue examination gingiva is pake pink, scalloped, soft is edematous on Hardtissue examination no of teeth Present are 32, on of decayed teeth class II Dentinal carries to, corossly decayed to Grade I mobility , vertical Top rue to stains mild, calculus moderate Based en above timical thinding diagnosed as Apical periodontitis the chronic generalised with localised puriodon and Diagnosis: I. Apical periodontitis in the first of the stains in the periodontitis in the first of the stains are provisional Diagnosis: I. Apical periodontitis in the first of the stains is the provisional Diagnosis: I. Apical periodontitis in the first of the stains are provisional periodontitis in the first of the stains in the periodontitis in the first of the stains is the provisional Diagnosis: I. Apical periodontitis in the first of the stains is the periodontitis in the first of the stains in the periodontitis in the first of the stains in the periodontitis in the first of the stains in the periodon in the periodon title in the first of the stains in the periodon title in the first of the periodon title in the first of the periodon title in the

2. Class II Dental carries it +5
3. Chronic 'Generalised Gingivitis

Localized periodonkitis irt 751112

+ Differential Diagnosis: Periopical abscess

Periapical granuloma Periapical cyst.

+ Investigation: Rygirt at.

+ Final Diagnosis: 1. Endo perio lesion int et

2. Class II dental caries int + 5

3. Chronic Generalised gingivitis with

Localised periodontitis int =521 1/2

Treatment Plan (1) Advised Extraction int of followed by replacement of tooth with fixed prosthesis

3 Advised oral prophylaxis & periodontal therap

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Signature of the Staff

Gingiva colour , Pale pink contour: scalloped consistency: coft bedematous -Hard Tissue Teeth present :32 Decayed teeth: class II dental carries +5 Grossly decayed of. mobility :- Grade I 7521/12 Vertical Top tre of Tenderon: percussion Radiographic findings :-- Rug neveals gross loss of crown structure involving enamel, dentin a pulp. - Widening of PDL space noticed all along the length of mesial good int of. - ill defined gadiolucency at apical yard of mesial goot of - Rug also gereals loss of lamina dura at apical 13rd of 700t of

Medications:

1. Tab AUGIMENTIN-625 mg - 9 (Amovicillin + clavulante acid) 2. Tab : METRONIDA ZOLE 400 mg-

PolBID | 3 days lafter meals. 6. Tab. COMBIFLAM -IBUPROPEN + PARACETAMOL

PolBID a days lafter meals

(PANTOPRAZOLE 40mg) PoloD/3 days/ before

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ORAL MEDICINE, DIAGNOSIS & RADIOLOGY

CASE SHEET

Raziya Begum + Name

Date: 18/3/23

Address: Ganesh nagar +

Ago: 40 Sex: Female

Chlef Complaint: Patient complains of pain in her lawer right back +

teeth n'egion since 4 days.

- back then she developed pain in her lower right back teeth riegion whi was sudden in onset , continuous in nature, throbbing type, madrating & with severe intensity, aggrevates on eating food & relieves on' medication.
- **History of Past Illness:**
- Medical & Drug History: Patient is Hypertensive for past 5 years &

on medication. Family History: No relevant family history. +

Sleep: Adequate. Boundes: Regulars. Blodder: Regulars. Personal and Social History: Diet : mixed. + -Appetite: Normal

(a) Marital Status: mannied

(b) Habits: NO.

- (c) Occupation: Housewife
- (d) Weight : 60 ·
- Systems Review
- **CLINICAL EXAMINATION:** +
- General Examination
- General Appraisal (Including Vital Signs when Indicated)

Normal Head: Skull

> Normal Eves

> Normal Nose

Skin: No scars & mashes seen.

Neck:

Jaws:

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Intra Oral Examination:

- (i) Lips: Competent
- (ii) Labil / Buccal & Muscosa: Nonmal
- (iii) Palate: Normal
- (iv) Oropharynx: Normal.
- (v) Floor of the Mouth: Normal
- (vi) Tongue: Normal
- (vii) Gingiva:
- (viii) Teeth:
- (ix) Oclnsion:
- Edentrulous Mouth:
 - (xi) Partal Edentrulous Mouth

Local Examination of the Lesion:

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Summary: A go years old female patient by name Raziya Begun complaints of pain in her Lower right back tooth region since 4 days which was sudden in onsel, continuous in nature, throbbing type, radiating & with severe intensity aggrevates on eating good & relieves on medication. Rattent was known tith for 5 years & on medication on soft tissue examinate ginging is red, askentuated, soft an Hard resul examination no or teeth present 30 missing teeth to cover decayed teeth 117, class I dentallaries of, Top we 317 Pased on obove Ind. it is provisionally diagnosed as charonic generalised periodontitis, apreal periodontitis Provisional Diagnosis: 1. Apical periodontitis 37 2. class I dental caries 3 chappic generalised perbodomitis 4. Ellis class 1 int 4 5. ellis class II : 1+ +3, Ellis class I 1+ 7 Differential Diagnosis: 1. perlapical abscess 2. periapical granuloma 3 perhapical cyst Investigation: OPG Final Diagnosis: 1. Periopical abscess it = 87 2. Periopical granuloma ist 1 3. Ellis class II fracture ist 12. 4. chance generalised periodontitis. Treatment Plan 1. Advised Extraction + followed by placemen 2. Advised iRoot canal therapy & 3. Restoration 1st -A. Periodontal therapy - charonic Generalised Periodontitis. Tab. Amoxicillin - @x 3days. POTTIDIAJter meals | Bdays. a. Tab. metronidazole - 0x3days. PolTID after meals /3 days. PRINCIPAL Staff 3. Tab Zerodol. P- @ x 3 days. Mum PolBID after meals 18 days. SVS Institute of Dental Science MAHABUBNAGAR

Gingiva colour : Red. contour; attentuated Consistency: soft & edenations. Ginguial recession: Generalised. Hard Tisme Teeth present: 38. teeth abount: 2/8 Decayed teeth: 87 7 Grosby decayed. class 11 dental caries -Fractures: ellis class iv fracture 4 class 11 fracture 11 class I fracture 2/.

mobility ! Grade I all

: vertical top tre 87/7.

Radiographic findings:opa neveals permanent set of dentition with generalized horizontal hone loss with impacted left conine, with gross loss of viown structure, readiolucency involving enamel, dentin pulp widening of PDL space, Phologined radiolians, at apical yord of 700t 177 . It also reveals distoccler Madiolucency involving enamel, dentin, pulp int of loss of your structure involving enamel, dentin & pup & well defined gadiolucency seen on apical 15th of 7001 to loss of enamed + loss of enamed & dentin +

> SVS Institute of Dental Sciences MAHABUBNAGAR

ORAL MEDICINE, DIAGNOSIS & RADIOLOGY

CASE SHEET

·Annapuma. .+ Namo

Dato: 20/3/2023.

Address: 140-years - Kosgi +

Ago: 40 Sex: Female.

Chief Complaint: Patient complains of sensitivity in her Lower

right back tooth region from 3 years.

History of Present Illness: patient was apparently asymptomatic 3 years back & then she developed Sentitivity in lower right back tooth region while taking cold & sulect from items which is not associated with any pain

- History of Past Illness:
- Medical & Drug History: No relevant medical & doug history +
- Family History: No gelevant family history + sleep. Normal.
- Diet : mlxed Bouele Nomal. Personal and Social History: Appetite: Normal. + (a) Marital Status: Marited
 - (b) Habits: No
 - (c) Occupation House wife

- (d) Weight tokas.
- + Systems Review
- **CLINICAL EXAMINATION:**
- General Examination +
- + General Appraisal (Including Vital Signs when Indicated)
- Normal Head: Skull +

Eyes Normal.

- No scare & pashes soen. +
- Neck':
- Jaws:

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Intra Oral Examination:

- (1) Ups: Competent
- (ii) Labil / Buccal & Muscosa: Normal.
- · (iii) Palate: Normal
 - (iv) Oropharynx:
- (v) Floor of the Mouth: Normal
- (vi) Tongue: Normal
- (vii) Gingiva:
- (viii) Teeth:
- (ix) Oclinsion:
- (x) Edentrulous Mouth:
- (xi) Partal Edentrulous Mouth

Lecal Examination of the Lesion:

n 40 years old patient named Annapurina a Housewife resident of kosqi came to department with chief complaints of Sensitivity in Lours back tooth region since 3 years which taking cold & sweet food items which is not associated with pain. On soft time Examination, colour of gingina is red, rolled out margin 3/3, soft & edematous, & localised bleeding on probing 2/12, Grade I ginginal recession 3/3. On Hard Tissue Examination. no of teeth present so, missing teeth &17, class 11 dental caries 6/8, Root Stumps to mobility grade I 1/12 with generalised attrition, angles than I malocalusion sweetical Top trebs



Summary: occlural elear facels. Based on above clinical findings it is provisionally diagnosed as opical periodontites age growly decayed It. Root stumps to, chronic generalised gargenites with localised periodontilis 32/123

1. Apical periodontities \$18 Provisional Diagnosis:

2. Grossly decayed 7

8 Root stumps to.

u chronic' Generalised ginguites with localized periodontilis 321/123

Differential Diagnosis:

1. periapical abscurs.

2. Periapical granuloma.

3. periapical cyst.

Investigation: Aduised OPGI.

Final Diagnosis: 1. Chronic periapical abscers -6/8

2. Grossly decayed 4

s. charonic generalised ganginitis with localised periodonities 32/123.

Treatment Plan (1) Advised Root-canal treatment followed by Grown placement

- @ A drised Extraction -18 followed by replacement with fixed prosthesis:
- 3 Advised oral prophylaxis.

Whenshi PRINCIPAL SVS Institute of Dental Sciences MAHABUBNAGAR

Ginguia Colow: Rid comous: Rolled out moseguis - 3/3 Considercy : Soft & edernatous. Bleeding on probing : localised but 2/12 Ginginal receivion: Grade I - 123 Hard Time Teeth present : 30 Teeth absent: 8/7: Decayed letts: - class II dental cories -18. Growly decayed 7. mobility: Grade I 11/12 Rood Stumps 1- to. : Ventical Top the 18. oper seveals permanent set of destition. gross loss of Gown structure involving enamel, dentin & pulp If. mesioocclusal radiblucency involving enamel, dentin, Pulp &, loss of pol space noticed at apical yard of mesiabuccal goot of Suggestine of periapical abscess & B. Root Stumps to nedications Tab. Amoxicillin - @x3days. PolTID lafter meals 13 days. Tab metronidazole - 1 x 3 days. PO [TTO) after Meals 13 days. 3 Tab Zerodol-P- @ x 3 days. POBio/after neals /3 days. SVS Institute of Dental Sciences

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MAHABUBNAGAR

ORAL MEDICINE, DIAGNOSIS & RADIOLOGY

CASE SHEET

Sulochana. Name

Date: 213 23.

Address: Mahabubnagar +

Ago: 35 sex: Female.

Chief Complaint: Patient complains of poin in her lower right back tooth region sind I week.

History of Present Illness: Paleint was apparently anymptomatic & week back then she developed pain in her lower hight back took region which was hudden in onset, continuous in + nature, theologing type, severe intensity, radiating, aggrevales on exting kreticues on its own.

History of Past Illness : -

Medical & Drug History: No relevant medical & dug history.

- Family History: No relevant family history.

 Personal and Social History: Appetite: Normal Bouels, Normal Bladder! Normal
 - (a) Marital Status: manied

(b) Habits: No.

- (c) Occupation floure wife.
- 50 Kgs. (d) Weight
- Systems Review +
- **CLINICAL EXAMINATION:**
- General Examination
- + General Appraisal (Including Vital Signs when indicated)

+ Head:

Normal Skull

Eyes Normal

Nose

No eashes b. scars scen-Skin:

Neck:

+ Jaws:

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Intra Oral Examination:

- (i) Lips: Competent
- (ii) Labil / Buccal & Muscosa: Normal
- (iii) Palate: Nocmal.
- (iv) Oropharynx:
- (v) Floor of the Mouth: Normal
- (vi) Tongue: Normal
- (vii) Gingiva:
- (viii) Teeth:
- (ix) Ocinsion:
- (x) Edentrulous Mouth:
- (xi) Partal Edentrulous Mouth

Local Examination of the Lesion:

A 35 years old female patient named sulochana resident of mahabrubnagar came to department with chief complains of pain in her lower right back tooth region which was sudden in onset, continuous in nature, which was sudden in onset, continuous in nature, sower intensity, aggrevates on eating brelieus on its own. On soft time Enamination colorer of ginguia is pale pink. Lolled out margins $\frac{13}{2 \cdot 132}$, soft & edenatous, stippling present be ginguial accession $\frac{13}{2 \cdot 132}$, on slaud time Examination no of teeth present 82, class II dental caries $\frac{14}{1578}$, class I dental caries $\frac{14}{1578}$, generalised attrition & abearion



Summary: Vertical Top tre - 54 . On clinical findings it is diagnosed as aprical periodontites 654 . class I dental causes - 6/8 "class II dental causes - 7/1 , & Root ... Stumps 65 56 56 5678.

Provisional Diagnosis: 1. Apical periodontilis 654

- 2. class 1 devilal caries 54

3. class I devilal caries 54

4. Root strings 65156

4. 15678

Differential Diagnosis: 2. periapical abscers. 3. periapical granuloma. 3. periapical eyst.

ndvised op 9 Investigation:

2. class 11 dental caries 11 3. class 1 dental caries 18.

followed by nown placement 2. Adured Extraction 7 5778 followed by replacement with fixed protthers.

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Ginquia Colous 1- Red . 117 -1/3 Contour: Rolled out margins 1/2: Consistency: Soft & edemalous angual recession: - ande] - 2/12 Hard Tissue Teeth present 132. Decayed teeth :- class II devilal caries 541. class I dental casies of8. Root Stumps 1- 65 | 56 Altitute & :- Generalised abunnon :- Vertical Top tre (54) Radiographic findings - oper seveals permanent set of dentition with moderate generalized horizontal alueolar bone loss generalized attution, Root stamps 7/5678 - Occlusal radiolucency convoluing enemel, dentin & pulp +. - muris-prominal badiolucency involving enamel, dentin & pulp of. - Disto-proximal radiolucency involving enamel, denting approaching pulp it occlural radiolucincy knuoling enamel & a part of dentin at - ill defined radioluciny noticed at apical yord oproof of medications 3 Tab. Zerodol-P-6 x3day 1 Tab Amoricillin - 1 x 3 days Po/TID/after meals /3 days. POBID afterneals/3days. @ Tab metionedazole _ @ x3 clays Muspali PO-1 TID after meals 13 days SVS Institute of Dental Sciences MAHABUBNAGAR **CS** CamScanner

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C1	Date	A La series				
SI. No.	Date	Name	Age / Sex	Type of Radiographs	Interpretation	Sign. of Staff
	20/2/23	Venkodamma	40/F	1	Apical periodontilis	
		1	,		classI moderate	
		9.0			denbloanies Irl 7	
2	a୦ ୫ a૩	Balaraj	45/M	IO PA	Chronic Periapical abscess	,
3	20/3/23	Bujji	33/F	TOPA	chaonic perilapical	
4	20/2)'	Manyamma	35/F	IOPA	Radicular cyst +12	· · · · ·
(5)	२० ३ २३	Kurmalah '	35/1	⊞lopA .	Endoperio lesion.	
66	20/2/23	AsmaBegum	27/6	lopa.	Chronic periopical abscess into	Lyaren
(7)	21/3/23	Shivamma	30/F	IOPA	chronic periapical abscess 61.	
8	છા શ્રી રહ	Rama Krishra.	15/M	IOPA"	Apical 1111	
	8	the second of the			Ventical impaction	
9	ह्याउ	Ramakrishna	z/w	10PA	abs ces's in to	2
6	21/3/23	Asma Begun	39/F		Endo perlo lesion et Mesicangular Impaction int et	
,		SVS Institute of Der MAHABUBN	tal Scie AGAR	eances .	CS	CamScanner



SI No	Date	Name	Age / Sex	Type of Radiographs	Interpretation	Sign. of Staff
11.	23 3 28	Shiva	05/m	IOPA	Apical periodontitis	4
	3	- 1 a y -			Moderate dental	
		· w·			canics int =+	J. nem
ıء .	रह्ये अरु	Shiva .	29/	IOPA	Chronic Privatical obsess	Lygaria
		Je			Periapical abscess	
13.	23 3 23	Vishwa	88/M	. IOPA	Periapical granulomaint 15.	1
		· cares in it		1	0	
14.	23/3/23	Namesh	33/	IOPA	Endoperiolesion	
		,			iye . T	
15	28 3 कि	Sudha!	29/2	IOPA	Periapical granulomain 67.	
	orlolo	Pachu	الغوا	IOPA	channic	
16.	ଷଦ୍ର ବାଷ	Raghu	26/2	TOPA	Perlapical	100
			, ×		abscess int ta	*
					impaction int to	Int.
17.	25 ३ ३३	savitha ,	18/F	IOPA	Apical and api	
					Horizontal	
		1.	Section of the sectio		impaction intet	
18.	as ३ अ	Ananthamma.	47/F	IOPA	Radicularicyst -15).
			- 1		Partially edentulous	
				* (1
	+					
	*				PRINCIPAL	

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SI. No.	Date	Name	Age / Sex	Type of Radiographs	Interpretation	Sig
19	25/3/2	Sai vamshi	24/2	IOPA	Radicular cyst?+	
20	25 3 23	Robit	æ₹/m	IOPA	chronic Periapical abscess	75
۵۱۰	27/3/23	Meghana	29/F	IOPA	Endoperio lesion int to.	
22.	27/5/23	Rajamani	51/F	IOPA	charonic Periapical abscess int to	and the second
23.	aन 3 2ं	KarthiK.	31/m	IOPA	Perio Endo Lesion -16.	
2ч.	1 127 3 23	Ramesh	23/	IOPA	Charonic Periapical abscess	
			f +	*	Mesicangular impaction int to	
25-	27/3/23	Shiva	25/	IOPA	class 11 moderate dental corries f	
<u>ور</u> .	ଥିଥାଅନ୍ତ	Alreen	30/F	IOPA	Endo perio Lesion Int ta.	
Q7·	28/3/23	Sana	20/F	IDPA	class 11 moderate dental carries	
	0 2 2	PRINCIPAL	Science	₀ 05	Port 61.	ノ
		PRINCIPAL PRINCIPAL SVS Institute of Dental MAHABUBNAS	BAK		CS C	amSc

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that to proceed

SI No	Date	Name	Age / Sex	Type of Radiographs	Interpretation Sign. of Staff
26	28/0/23	Manoj	23/14	TOPA	Penlapical abscess int to
29	દ્વનિકદ	Narsimlu	35/M	IOPA	Choronic Perlapical obscess 1xt 5
30	રક ૩ ૨૩	upendra.	93/m	10 PA	Severe dental caries into
31·	29 3 23	Tasawar	27/5	IOPA	abscess irt to abscess irt to
38.	२१३१२३	Balaiah.	24/2	IOPA	Apical periodontitis 7
33	29/3/23	Sheema	27/ F	JOPA	chaonic periapical abscess 1xt 67.
34	29 ୨ 23	Shouth?	25/	IOPA	chanic, Peniapical abscess int 6
35.	29/3/23	Ravi	30/m	IOPA	choronic Periapical abscess int to.
		•		S	PRINCIPAL PRINCIPAL VS Institute of Dental Sciences MAHABUBNAGAR

- consistent	Character and State of State o					
SI.	Date	Name	Age / Sex	Type of Radiographs	Interpretation	Sign. of
36	डा ब ब३	Umadevi	38 F	IOPA	charonic periopical	h
	Ÿ	**			Moderate dass 1	
					dental corries	
		*	*.		5-71	
37.	31/3/23	Gzhousiya Begum	28	IOPA	Moderate classics	5.T.
	4	Begum			dentas castas	
			29/	InpA	Peniapical	
38	3 3 23	shiva	M	IOPA	Peniapical abscess int=	1.
	0.	- 1 . 4				
39.	31/3/23	Naoisimly,	30/N	LOPA	charonic Periapical	Agranda de la companya de la company
71		enter Elm			abscess ist-	4
		H. e. e.;"			Peniapical	
40.	31/3/23	Borina	26/1	IOPA	abscess ist	去小
•	440.7				charonic.	
41.	03/3/23	Nagesh.	31/	1 IOPA	periapical	
		1		*) *	abscessin	F 81.
		to the second	**		Endo perio	
42.	03 ३ २३	Hajera	34	IOPA	Lesion irt	to.
		Begun				1
		Morning	FAL	aid noes		
ì		SVS Institute of D MAHABUR	ental S 3NAGA	R		
		WYL				CamScanner

SI	Dale	Name	Age / Sex	Type of Rediographs	Interpretation	Sign. of Staff
No 43	3/3/83	Radha	35/p	IOPA	Charonic ,	
,				*	Periapical	
					abscess int to	
44.	3/3/23	Sujatha.	50/F	IDPA	Periapical granuloma -15	J. Line
45	69 E9	Shiva	35/M	lop'A	Endoperio n Lesion int +7.	
46.	२४ १०४/२५	Ramesh	28/m	elewing readings -aphy	mild class II distoproximal dental carries If	
		s - 1	÷ 1		Mild class I dental Earlies to	
47	રૂપોલ્લો અ	usha	24/6	Bilewing radiograp	mild distoproximal	
	21 Na	· · · · · · · · · · · · · · · · · · ·	7 . 7	Radiogra	mild mesioproximal	Ine.
					class II dental	
		, , , ,	7- 1		carries to	
48	25/06/24	Pandu	30/n	Hadlod	Mild distoproximal	Edition in a service of the service
				-rapty	class II dental corries =	*
49	25/06/24	Satwik	29/m	Bilewing	Mild distoprorimal	
				radiofr -apry.	mild mesio proximal dental carries by	
	l	ı	l	(·	, ,	

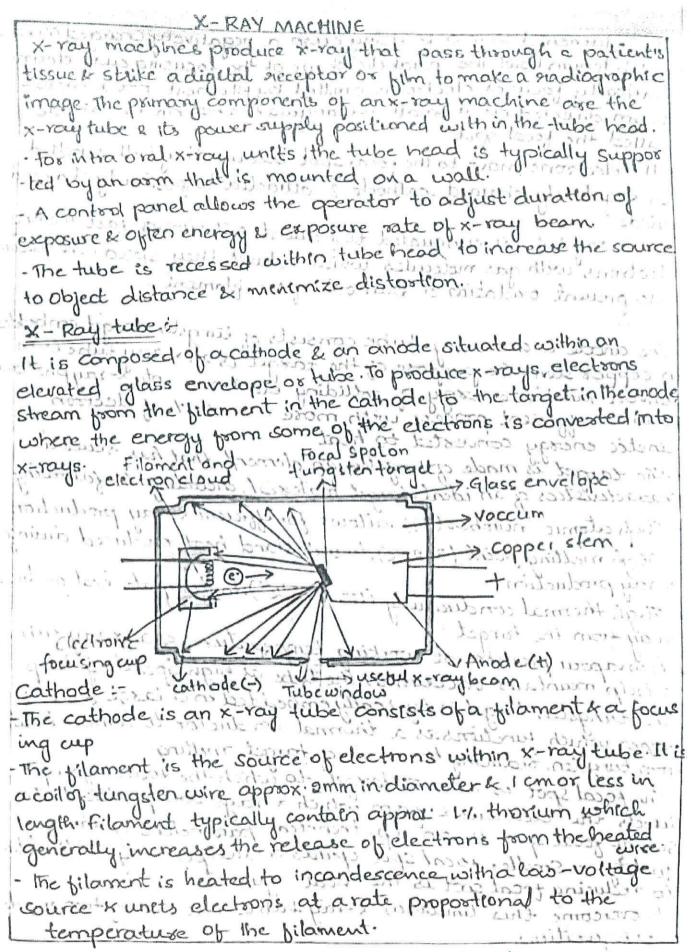
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ORAL MEDICINE, DIAGNOSIS & RADIOLOGY

RADIOGRAPHS

ACMEDICAL PROPERTY OF THE PARTY	Dale	Name	Age / Type of	Interpretation	Sign. of Staff
SI No	Date	T TENTO	Age / Type of Sex Radiographs	The present of	Staff
50	26 06 au	Bharath	24 Bilens	Clouticaries in to	lun
		and	BN .		
		SVS Institute C	ICIPAL If Dental Sciences BUBNAGAR		





The filament lies in a focusing cusp a negatively charged concard molybdenum bowl. The parabolic shape of the focusing cusp electro statically focuses electrons emitted by filament into a narrow beam directed at a small rectangular, area on the anode called the focal spot . The electrons move to the focal spot because they both repelled by negatively charged cathode & attracted to positively charged anede. The x-ray tube is enacuated to prevent collision of fast moving electrons with gas molecules which reduces their speed. The voicin also prevent oscidation or burnout of the filament to chiect Anode: The anode is an x-ray tube consists of lungeten target embedded in copper stem The purpose of the target is an x-ray tube is to Convert kinetic energy of colliding electrons into x-ray photons. It is an efficient process with more than 99% of electron Kinetic energy convexted to heat no mo - The larged is made of tungsten, an element that has several characteristics of an ideal target material, including the following: I High atomic number (74) allows for efficient x-ray production. + High metting point (3422°c), to withstand heat produced during X-ray production. * Fligh thermal conductivity (173 W m'k"), to dissepate heat produced away from the target. + downpour pressible at working temperatures of anx-ray tube, to help maintain vaccum in the tube at high operating temp. - The tungsten target is typically embedded in a large block of copper which functions as a thermal conductor to remove heat from tungsten, seducing the risk of target melting. - The focal spot is area on target - to which the focusing cup size of focal spot is our imp, technical parameters of image quality - a Smaller go cal spot yellds a sharper mage A limitation to reducing tocal spot is the heat giresated To overcome this limitation x ray tubes use one of two anode reporture of the hiladurent configurations promount

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stationary anode: In this target is placed at an angle to electron beam Typically larget is irclined approximately 30° to the central ray of the x-ray beam. focusing cuf. - 1- bilamonth cathodoca Amode (t) Actual tocal, spot rice > Effective focal spot size. When viewed through airning ring, the area from which Photomsof weful x-ray bean originate appars smaller, making the effective focal spot smaller than actual focal spot size. In the example shown, the effective food spot is approx come imm as apposed to the actual focal spot, which is app- 1 moneyor This smallex refrective focal spot results in small apparent sou of k-rays & an increase in sharpness of image, with large focal spot size to improve heat dissipation Rotating anode :-- In this , the tungsten target is in the form of beveled disk notates during period of x tay production. As a sesult, the electron stikes successive areas of target disk, distributing the heat x-ray tubes with rotating anode can be used with longer over this extended areas of disking of exposures & with higher tube currents of 100 to 500 mA) which is 10 to 50 times that possible with stationary targets; The targets & rotos (asmatuse) of motor Lie within x-raytube & stator coils which drive the rotor at approx soo revolution per minute) his outside the tube. Such rotating anode are not used in intra oral dental x-ray machines but are occasionally used in cephalometric with; are usually used in core bear machines & one used in multidetector CTX-ray machines, which requires high radiation output for longers, sustained exposure in por

The x-ray tube & two transformers lie within an electrically grounder metal housing called the head of x-ray machine. The primary functions of power-supply transformers are to:

Provide a low voltage current to heat the x-ray tube filament.

Generate a high potential difference to accelerate electrons from cathode to focal spot on the anode.

X-Ray Tube controls:-

Tube Current (Milliampexes), MA) 1. Dusing x-ray production electrons produced at bilament axe This flow of electrons from cathode to anode generates current across x-ray tube & is called the tube current The magnitude of this aiment is regulated by the milliampere control which adjusts the resistance ecurrent flow through filament, there by regulating the no of electrons produced For many intra oral dental x-ray units, thema setting is fixed typically at 7 to 10 mm. some units offer the flexibility of a selection of my settings, ranging from a to iomA. Pube voltage (Kilovoltage, KV) in pris -1 high voltage is required between anode & cathodorto give electrons sufficient energy to generate x-rays - The Kilovolt peak (KVP) selector ordinals the high-voltage transform to boost peak voltage of incoming wie current (110 or 220V), Typical intraord, pararomic, cephalometric machies operates between 50 E 90 Kyp (50,000 to 90,000 V) where as computed Alternating current v mi Generate at 90-120 Kup & high Alternating current x-ray Generations: - for an incoming line with alternating current (Ac), the palasity of trequency. - when polarity of voltage applied the target anode to be positive ex filament to be negotive the electrons around blanch accelerate toward positive target & x-roups are produced produced by

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when the voltage across cathode & anode is highest the eff ciercy of x-ray production is highestil thus, intensity of X-ray pulses peaks at the centres of each ayde. - During the following half of each cycle, the filament becomes positived target becomes negative. At these times the electrons do not flow across the gap between two elements, of the tube Es nox-rays are generated. - when an x-ray tube is powered with 60 cycleAc, 60 pulses of x-rays are generated each second, each having duration of 1/120 see. Such x-ray units are referred to as self-rectified half wave rectified. Constant potential (Direct current) x-ray Generators - Some dental manufacturers produce machines that replace conventional so cycles Ac half wave rectified pawer supply with high brequency power supply that provides almost be This results in constant potential between anode & cathode & x-rays are produced through entire eycle: - Practical implications with use of constant potential intracors eray are produced through entire cycle. Because x-ray production occurs during the entire voltage cycle Constant potential units requires shorter exposure times to Produce same number of x-ray photons, minimizes patient mation . The intensity of x-ray photons produced is more consistent especially with short exposure times this is practical impostance when using digital receptors that requires ess rocacouon.

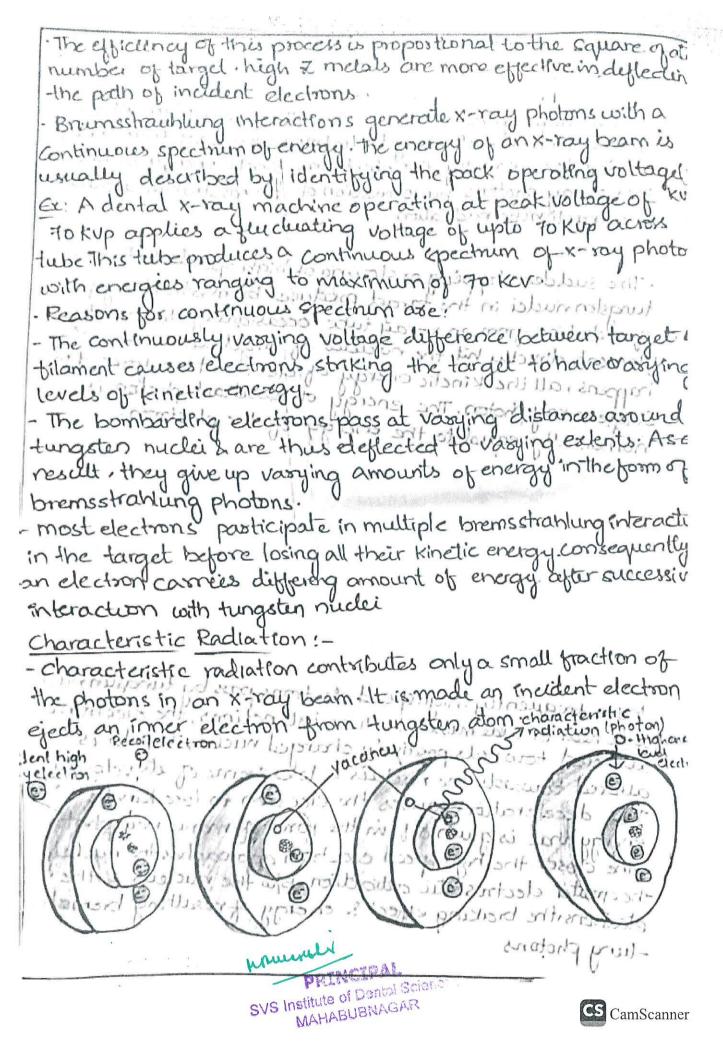
- when operated at same Kyp the k-ray beam produced by constant potential units has higher mean energy which decreases radio graphic mage constrast. To offset this effec Constant potential x-ray units are typically operated at elightly lower Kup, typically 60 to 65 kup. - The narrower spectrum of energies with fewer lowers energy photons lowers the podient radiation dose by 35%. to got Compared with conventronal Ac x-ray geneso are to restout a other of some Dillo sips pint, A. Solat adlibased Law Mangrah

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Timer: - A timer is built into high-voltage circuit to control duration of x-ray exposure Theelectronic times controls length of time that high voltage is applied to tube & thus time during which K-rays are produced Subjecting filament to continuous healing at normal operating current shorters its life to minimize filament damage the timing circuit first sends a current through bilament for approximately half a second to bring it to proper operating temperatures & then applies power to high voltage circuit - In some circuit designs, a continuous low level current passing through filament maintains if at safe low temperatures, further shortening the delays to preheat the filament - Some x-ray machines tunes duplay exposure time infraction in some exposure times are present fordifferent anatomic areas of the jaws inslog - In some units, the expositive, time is expressed as no 197 in an exposure. The notof pulses divided by 60 gues exposures time in seconds - A setting of 30 pulses means 30 pulses of Tube rating & Duty cycle: The heat build-up at lande is measured in heat units (HO), where the - KUP xm Axseconds. The heat storage capacity for anodes of dental diagnostic tubes is approximately so KHO. Each x-ray machine comes with tiebe rating chart that describes longest exposure time the tube can be energized for a range of voltages (kup) & tube current (mh) values without sisk of damage to target from overheating. - These tube ratings generally do not intraoral radiographs - Duty cycle relates to frequency with which successive exposite can be made without overheating the anode? . The interval blus successive exposure must be long enough for - the characteristic is function of size of anode, the exposure KUPL MA 1. the method used to cool the tuhe . A d. L.

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indicates that one could make 1- secon 60 seconds. PRODUCTION, OF X-RAYSI - most high speed electrons travelling from blament to target interact with target electrons is release their energy as real, occasionally, the electrons kinetic energy is cor into x-ray photons by tornation of bremsstrahlung radiation & characteristic radiation. intermediation com Bremsstrahlung Radiation: -The sudden stopping or slowing of high speed electrons by tungsten nuclei in the target produces bremsstrahlung photons of radiation from an x-ray tube. occasionally electronsfrom Islament directly hit the nucleus of target atom when this happens, all the kinetic energy of election transformed into single x-ray photon. The energy of resultant photon is numerically equal to the energy of the electron. -> Allered path 10) defected Maherera > BremsstroHung Photons of low estenergy of more Incident high energy electric ently high speed electrons pass by turgetin nuclei with near or wide masses in these interactions, the electron is attracted towards positively charged nuclei, its path is aftered towards the nucleus & loves come of its velocity. This deceleration causes the electron to lose kinetic energy that is given off in the form of many newphotons. - The closer the high speed electron approaches the nuclei, the greater electrostatic attraction blothe nucleus & the electronsithe braking effect & energy of resulting bremsstrau -lung photons. promobe

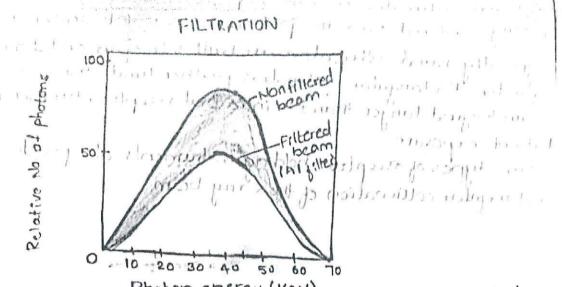


in the happens an electron from an outer orbital is quickly racted to the void in the deficient inner orbital yen an outer orbital electron replaces the displaced electron, a spon is emitted with energy equivalent to the difference in the binding ingues of the two orbitals. The energies of characteristics photons are with because they represent the difference of the energy levels of edific destorm orbitals and are characteristics of target atoms. e production of characteristic radiation has no practical imple tion for dentomaxillofacial radiography. tors controlling the x-RAY Beam x-ray beam may be madified by allesing the beam exposure ration (timer), exposure rate (mA) lenergy (kyp and filtration), upe (collimation) or intensity (target-patient distance) posure time (s): hanging the exposure time-typically measured in fractions of a cond-modifies the duration of the exposure e thus the number photons generated when the exposure time is doubled, the or a photon's generated at all energies in the x-ray emission. admir is doubled. he range of photon energies is unchanged. Practically, it is usirable to keep the exposure time as short as possible to inimize blurring from the patient motion por milliamperage setting (mai Tube aments) is reprosent · Like the effects of exposure time, the quantity of radiation produced by an x-ray tube (i.e. the number of Photons that reach the patient). is directly proportional to the milliampe litting (mA setting). As the ma setting is increased, more power is applied to I ilament which heats up & releases more electrons that collide with target to produce radiation mus, as with exposure time, doubling the ma setting & will double the r maxs, or mas) is often used as a single parameter to den

the total no of photons produced too instances a machine operating at 10mm for a second (10x1=10mms) produces the same no-of photons when operated at somn for o-s sec (aoxo:s =lon The term beam quantity refers to number of photons in an x-1 beam Linearity and reproducibility of ma and sisellings are often included in quality assurance programe for x-ray units including those used indental and maxillopacial imagin Tube vollage peak (KVp): - Increasing the kup increases the potential differences between cathode and anode increasing the kinetic energy of the electric as they move toward the target. - The greater the energy of an electron, the greater the probability will be converted into x-ray photons at the largetismulas) Increasing the kup of an X-ray machine incre . The humber of photons generated. . The mean energy of the photons . The maxemal energy of the photons The term beam quality refers to the mean energy of anx-ray b Filtration & Spar - Although an x-ray beam consists of a continuous spectrum. x-ray photons energies, only photons with sufficient energy Penetrate through anatomic Structures & reach the image receptor (digital or film) are useful for diagnostic radiology - dow energy photons that cannot reach the receptor contribute to patient risk but do not offer any benef -consequently, it is desirable to remove these low energy Photons from the beam; This removal can be accomplished in past by placing a metallic disk (biller) in the beam path - A filter preferentially removes low energy photons from the beam but allow high energy photons that contribute to making an image to pars through.

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Photon energy (kev)
nevert filtration. consists of materials that x-ray photons
counter as they travel from the pocal spot on the target to
m the usuable beam outside the tube enclosure. These materials
lude the glasswall of x-ray tube. The insulating oil that sur
ands many dental tubes and the barrier material that present
oil from escaping through x-ray port. The inherent-filtration
most x-ray machines ranges from equivalent of 0.5 to 2mm of
menium.

ded filtration may be supplied in the form of alumenium. Its placed over the post in the head of x-ray machine. It filtration is the surn of inherent and added filtration. eral regulations in the united states requires the total ration in the path of dental x-ray beam to be equal to equivalent 1.5 mm of alumeneum for a machine operating up to 70 kup and 2.5 mm of alumenium for machines operating higher voltages.

sollinator is a metallic barrier with an operator in the middle ed to shape & sestrict the size of the x-ray beam and ume of its sur irradiated und and rectangular collinators are frequently used in intra 1. radiography. Dental x-ray beams are unally collinated a circle 2.75 inches (Tam) in diameter at the patients face.

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> A round collimator is a thick plate of metal civilha circular opening centered over the pool in the x-ray beam energies. - Typically raind addirectors are built into open-ended aiming cylinders Reclangular collumctors purther unil the size of the beam to just larger than the intra oral receptor, further reducing Palient exposure - some types of receptor - holding instruments also provide reclargular collimation of the x-ray beam. circular collimator 12) hour > yenouth Ba

Rectangular collimator

Collimators also improve image quality when a x-ray beam is directed at a patient the hard & soft tissues absorb approximately 10% pass through the patie to reach the image receptor (film or digital receptor)

- many of the absorbed photons generate scattered nadiate within the exposed tissues by a process called compton scatte

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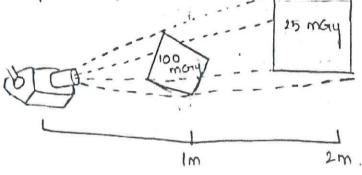


These scattered photons travel in all directions, and some second the receptor & degrade image quality.

- collimating the x-ray beam thus reduces the exposed volume & thereby the no of scattered photons reaching the image receptor, resulting in reduced patent exposure & improves images.

Inverse equare law:

- Inverse



The reason for this decrease in rollensity is that anx-rou beam spreads out as it moves from its source. The relation ship is as follows:

11 = (D2)2 12 (D1)2

> where I is Intensity and Disdistance. If a dose of 4 Gry is measured at 2 m, a dose of 1 Gry would be found at 2m and dose of 0.25 Gry would be found at 4 m.

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Practical applications:

- changing the distance between the x-ray tube 2 the Patient such as by switching from a machine with a short aiming tube to one with long airning tube, has a masked effect on beam intensity. Such a change requires a corresponding modification of kyp or ma to maintain the same intensity at the image receptor.

Increasing operator distance from the x-ray source is an effective method-to minimize operator dose.

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made the state of the state of the soft long or

INTERACTIONS OF X-RAYS WITH MATTER . In derital and maxillofacial imaging, x-ray beam enters lace of palient interacts with hard & soft tissdes & storkes digital sensor. The incident beam contains photons of many energies. The intensity of beam is essentially uniform from center of bon outroadd. - As beam goes through palient, it is reduced in intensity (attentionted). This attenuation results from absorption of individual photons in the beam by atoms in tissues or by photons being scattered out of beam, -In absorption interactions, photons interact with tissue dom - To scattering interactions, photons interact with tissue atoms but then move off in another direction the trequency of these interaction depends on type of tissue exposed. Bone absorbs x-ray photons, soft tessues let them pair through. This differential exposure of film or digital sensor forms - there are three means of beam attenuation in diagnostic redisgraphic image. X-ray beam: . Photoelectric absorption. . Compton scattering. · Cohesent scattering.

Interactions top photons from a diagnostic x-ray beam

Interaction	Tonization	Sec. 1. 1. 2. 2. 3.	Practical implication.
Photoelectaic absorptor	Yes		Basis of ractiographie
compton scatter	Yes	inyes 1,11	Scatter radiation can degra inage expose personnel epi
coherent scatter,	20	700	minimal contribution to

PHOTOELECTRIC ABSORPTION :- " 1000110

- It is critical in diagnostic imaging because it is basis of image radiographic formation. This process occurs when incident photon interacts with electron in inner I orbital of an atom in patient.

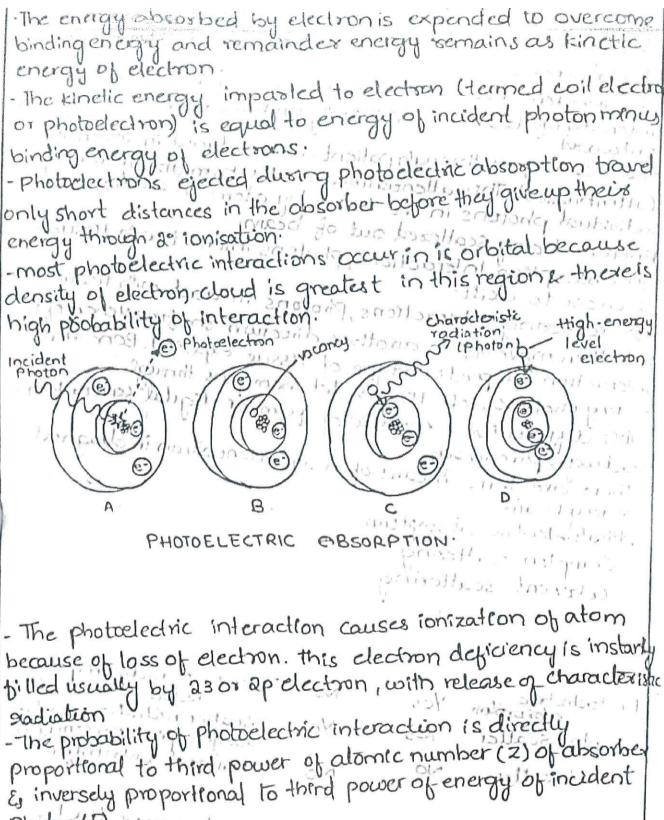
. The incident photon loces its energy to electron ecceses to exist.

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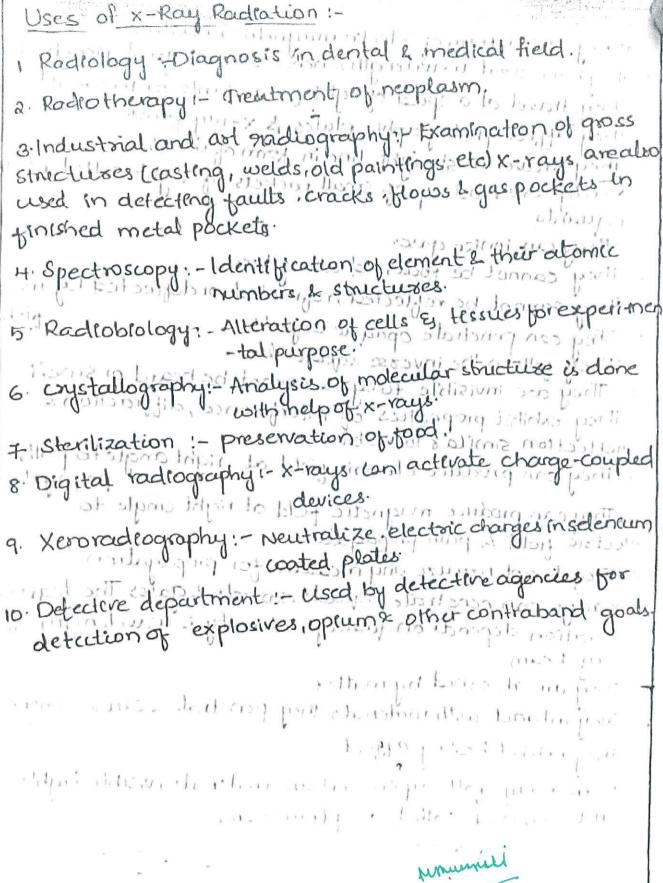
Photon (E). imprimi alisampoils no des 230 Probability of photoelectric interaction In: natoral traction;

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mote and in

COMPTON SCATTER 5alt occurs when photon interacts with an outer orbital electron - Approximately 57% of interactions in the dental x-ray beam exposure involve compton scatter. . In this, the incident photon collides with outenorbital electron, which receives kinetic energy & recoils from Point of impact The path of incident photon is deflected by interaction is scattered in new direction, The energy of this photon kinetic energy garned by record electron & its binding energy. when these scattered photons reach image receptor, they cause degradation of mage -> As with photoelector absorption compton scatter realts incloss of electron & indization of absorbing atom - The probability of compton interactionsis Propositional to photon energy & is ladependent of at no. - The probability of compton scatter is dependent on electron density of absorber which is relatively constant intuitive Practical implications of photoelectric effect: Differential tous sorption in various times & objects provides radio graphic constrast Because the effective atomic number of compton bone (2 = 13.8) is the greater than that of soft tissue (z= F-AD, the probability of pholoetectic interaction of x-ray photons in bone is capproximately 6.5 times greates than in an equal theckness of soft tessue (13.83/7.43-6.5). This marked difference in the absorption obx-ray photons by soft & hard tissue makes production of radiographic image possible. This differential photo electric absorption of x-ray photons in enamel, denten, Pulp, bone & soft tessue 16 what we observe as different degree of radioopacity on radiographic image -causes ionization & potential for brological

COHERENT SCATTER ; -It is also known as Ray leigh, classical or elastic scatter - It may occur when a low energy incident photon (<10 kev) interacts with a whole atom. The incident photon causes it to become momentarily excited. The incident photon then eases -The exited atom quickly selvens to ground state & generates another x-ray photon with same energy as the incident photon usually the secondary photon is emitted in different disection than the path of incident photon. -The net effect is that the direction of the incident x-ray photor is altered (scattered) - It accounts for only 7% of total no of interactions indicital exposure. Because no energy is transferred to biologic atom ano ionization are caused, The biologic effects of cohesent scatter are insignificant nother income - Recause cohesent scatter occurs primarily intower energy range, the scattered photon has insufficient encog mage seceptor & thus concent scatter has minimal impact on irrage digradation class Practical implications of compton scatter! - scattered photons travel in all directions & may exit the Patient & strike the image sceeptor. These photon carry, no useful information & degrade image by reducing constrast - scattered photons that exit patient, can expose the operator -) scattered photons travel varying distances within patient tessue scause contration thes internal scatter increases pti andiation dose 40/ten exposes organs & tissues outsided distant from path of primary beam! "in soil (2) Compton scattering occurs when one find dent photon interacts with to buter election, producing a southered photons of lower energy. that incident photon wrecoll 1977 atom the new scattered y Photons travel in a different last direction from the incidental Photon Washing assum PRINCIPAL SVS Institute of Dental Sch MAHABUBNAGAR



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PROPERTIER OF X-RAYS !-1. x-rays are a form of electromagnetic radiation a they have short wavelength's hence exhibit great penetrating 3 Trey travel at a speed of light (3 x 108 m/s or 1860cmiles/see) 4. They affect photographic plates is x-ray films 5 They troud in straight line in form of waves. 6. x-rays are made up of small packets of light called photons orquanta Maysey labour Largery 7. They can lonize gases. & They cannot be focussed using lens: 9. They cannot be reflected refracted ordeflected by magnetic 10 They can penetrate opaque objects 11/ 11. They follow the inverse square law. 12. They are invisible to eye's cannot be heard or smell. 13 They exhibit properties of interference, diffraction 2 neflection simplax to visible tovos 14. They can produce electric field at right angle to path of 15 They can produce magnetic field at right angle to electric field & path propagation 16. They do not requise any medium for propagation. 17. x-rays can penetrate liquids, solids egases. The degree of penetration depends on quality, intensity & wavelength of X-ray beam is they are absorbed by matter 19. They interact with materials they penetrate & cause longation 20-They exhibit healing effect. Q1. When x-rays falls upon certain materials, visible lights will be emitted called as flourescence Manually PRINCIPAL SVS Institute of Dental Science MAHABUBNAGAR