

RESEARCH ARTICLE

KNOWLEDGE AND ATTITUDE TOWARDS NEW CLASSIFICATION: PERIODONTAL DIAGNOSIS AND TREATMENT AMONG DENTAL PRACTITIONER IN MAHARASHTRA AND MADHYA PRADESH INDIA

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Manuscript InfoAbstractManuscript HistoryThis study is to compare the knowledge of general dental practitioner
towards the New Periodontal Classification 2017.Comparision was
done based on the questionair answered by different dental practitioner
in Maharashtra & Madhya Pradesh,India.questions were related to the
diagnosis , treatment options ,referal to periodontists and requirement
of further Continuing Dental education in terms of New Classification.

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Introduction:-

The speciality of periodontal treatment and diagnosis is evolving in all aspects ranging from newer advances in diagnosis, to the use of newer materials and regenerative techniques in treatment. These newer advances have given periodontal diagnosis and treatment planning a level of predictability for success, which was lacking just a decade ago. Thus, today we see periodontology as a speciality reaching newer heights, and with a very bright future in front of us. Periodontal disease is a multifactorial induced chronic inflammatory disease that affects tooth-supporting structure i.e. connective tissue and alveolar bone in the jaws, eventually leading to tooth loss. ¹.There is a need to evaluate the attitude and perception of the general dental practice. Hence, this study aims to identify the various aspects of 2017 classification of periodontal diagnosis, treatment provided at a general dental clinic, along with referrals to periodontists.Based on the study done by <u>Kanathur Smitha</u>et al in 2020, oral prophylaxis is received by only 10-20 % patients and 2 % of the General dental practitioners stated that 80 % of patient receive Scaling & root planning.²

This study, by the means of a questionnaire, aims to identify the current status of 2017 Periodontal Classification, Diagnosis & treatment in clinics, the protocol of maintenance therapy, and the general awareness of the dental profession toward periodontal care.

Subjects and Methods:-

The study was carried out in the form of a survey among 130 general dental practitioners having their dental clinics in the Maharashtra & Madhya Pradesh.India.A questionnaire comprising of 19 questions was distributed to each on the basis of Google Forms.

The questions ranged from classification of Periodontal diseases, diagnosis and treatment planning. The questionnaire was prepared by mutual discussion among the authors. Finally, a questionnaire consisting of 19 questions was prepared.

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Dental practitioners with a dental clinic in Maharashtra & Madhya Pradesh. India. minimum qualification of BDS, and experience of at least one year in private clinical setup were included for the study.

Interns, dental students, dentists exclusively working in a dental institute and periodontists were excluded from the study.

Comparison is made among the awareness of new classification of Periodontal diseases in general dentist, diagnosis and treatment planning between two states i.e. Maharashtra & Madhya Pradesh.

The data was entered into the excel sheet. The data was analysed using SPSS (Statistical Package for Social Sciences) 20.0 version. The descriptive statistics was performed. The comparison between the categorical variables was done using Chi-square test. The comparison of the mean score was done using Unpaired 't' test. p value<0.05 was considered statistically significant. Confidence interval was set at 95%.

Results:-

The study included 130 participants. 73 participants were from Madhya Pradesh and 57 participants were from Maharashtra, India. Out of 73 participants from Madhya Pradesh.India, 38 were BDS and 35 were MDS and out of 57 from Maharashtra 33 were BDS and 24 were MDS (Excluding Periodontist) in educational qualification. The number BDS and MDS Participants did not differ significantly between the states (Chi-square value- 0.440, df-1, p value-0.507).(Figure 1)

Each correct/most appropriate answer was assigned the score 1. The median (IQ) score of dentists from M.P. [14.0 (12.0-16.0)] did not differ significantly from the median (IQ) score of the dentists from Maharashtra [13.0 (12.0-15.0)] (p value- 0.092).

A significantly greater number of dentists from Madhya Pradesh (90.4%) as compared to Maharashtra (77.1%) had instrument in their clinic to measure pocket depth.

When the question was asked for knowledge of identification of initial periodontitis (i.e.If interdental Clinical Attachment Level at site of greatest loss is 1-2mm and maximum probing depth less than 4 mm then it is?) a significantly greater proportion of (57.5)dentist from Madhya Pradesh correctly answered the question.

When the question was asked for knowledge of identification of slow progression of periodontitis (i.e. Radiograph or CAL (Clinical Attachment Level) show no evidence of bone loss over 5 years then it is?) a significantly greater proportion (74.0%) of dentist from Madhya Pradesh correctly answered the question.

When the question was asked for Consideration for periodontal treatment like flap surgeries and root coverage are successful a significantly greater proportion (93.2%) of dentist from Madhya Pradesh as compared to Maharashtra (77.2%) considered that therapy are successful.

The response of dentists from M.P. and Maharashtra did not differ significantly with respect to other questions (p value>0.05). (Table 1)

The median (IQ) score of MDS dentists [15.0 (13.0-16.0)] significantly more as compared to the median (IQ) score of the BDS dentists [13.0 (12.0-15.0)] (p value- 0.024).

A significantly greater proportion of MDS dentist (52.5%) as compared to BDS dentists (46.5%) correctly answered the question related to the identification of initial periodontitis (i.e. If interdental Clinical Attachment Level at site of greatest loss is 1-2mm and maximum probing depth less than 4 mm then it is?)

A significantly greater proportion of MDS dentist (59.3%) as compared to BDS dentists (53.5%) correctly answered the question related to the identification of slow progression of periodontitis (i.e. Radiograph or CAL (Clinical Attachment Level) show no evidence of bone loss over 5 years then it is?)

A significantly greater proportion of MDS dentists (55.9%) as compared to BDS dentists (26.8%) perform mucogingival surgeries in their clinic.

The response of MDS and BDS dentists did not differ significantly with respect to other questions.(Table 2)

Discussion:-

The 1989 workshop recognized that periodontitis had several distinct clinical presentations, different ages of onset and rates of progression.^{3,4} Based on these variables the workshop categorized periodontitis as prepubertal, juvenile (localized and generalized), adult, and rapidly progressive. The 1993 European Workshop determined that the classification should be simplified and proposed grouping of periodontitis into two major headings: adult and early onset periodontitis.⁵ The 1996 workshop participants determined that there was insufficient new evidence to change the classification. Major changes were made in the 1999 classification of periodontitis,⁶⁻⁸ which has been in use for the last 19 years. Periodontitis was reclassified as chronic, aggressive (localized and generalized), necrotizing and as a manifestation of systemic disease. Since the 1999 workshop, substantial new information has emerged from population studies, basic science investigations, and the evidence from prospective studies evaluating environmental and systemic risk factors. The analysis of this evidence has prompted the 2017 workshop to develop a new classification framework for periodontitis.⁹

Based on the 2017 World Workshop, it is suggested that a single definition be adopted for a patient is a periodontitis case in the context of clinical care if:

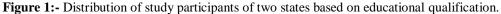
- 1. Interdental CAL is detectable at ≥ 2 non-adjacent teeth, or
- 2. Buccal or oral CAL \geq 3 mm with pocketing >3 mm is detectable at \geq 2 teeth

Staging & Grading given as per new Classification (Picture 1 & Picture 2)¹⁰

According to the new periodontal classification 2017 if less than 30 % of the teeth are involved it is denoted as localized and if more than 30% of the teeth are involved it is denoted as generalized. Staging is decided on the basis of CAL, Bone loss &tooth loss due to periodontitis. When coming to the grading of periodontitis is determined based on estimated disease progression in last 5 years. This can be done by direct method i.e. periodic radiographs & CAL measurement or indirect method includes determination of % of bone loss around the worst affected tooth divided by age of the patient i.e. BL/A.

Based on results obtain on date collection and analysis in our study it was found that when comparing between two states i.e. Madhya Pradesh & Maharashtra India, Dentist of greater proportion of dentist from Madhya Pradesh correctly answered the question related to the identification of initial periodontitis, identification of slow progression of periodontitis & flap surgeries and root coverage are successful. Whereas when comparing based on qualification of dentist, greater proportion of MDS dentist as compared to BDS dentists in terms of identification of initial periodontitis, identification of slow progression of periodontitis, identification of slow progression of periodontitis & performing mucogingival surgeries in their clinic.

Acknowledgement:-



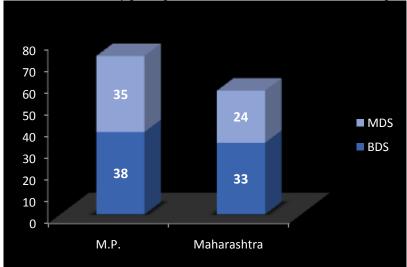


Table 1:- Response	of the partici	pants of two stat	tes for different	questions.
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	the participants of two st				~ .	b
Question	Response	M.P.	Maharashtra	Total	Chi-square value	P value
Q1. Is there difference	Yes	73 (100%)	57 (100%)	130 (100%)	-	-
between gingivitis and periodontitis?	No	0 (0.0%)	0 (0.0%)	0 (0.0%)		
	Yes	73 (100%)	56 (98.2%)	129 (99.2%)	1.291	0.256
	No	0 (0.0%)	1 (1.8%)	1 (0.8%)	_	
symptoms of		- (,	(,	()		
periodontal disease						
regardless of patient's						
chief complaint?						
Q3. When do you say	Bleeding gums and	3 (4.1%)	3 (5.3%)	6 (4.6%)	1.568	0.667
that the patient is	presence of pocket					
having periodontitis?	depth					
	Mobility and furcation	4 (5.5%)	4 (7.0%)	8 (6.2%)		
	involvement	× ,	× ,	~ /		
	Both	66 (90.4%)	49 (86.0%)	115 (88.5%)	-	
	No idea	0 (0.0%)	1 (1.8%)	1 (0.8%)	-	
Q4. Do you record		49 (67.1%)	39 (68.4%)	88 (67.7%)	0.025	0.875
pocket depth as a part		24 (32.9%)	18 (31.6%)	42 (32.2%)		0.070
of routine oral health		_ (52.570)	10 (01.070)	.2 (32.270)		
examination?						
Q5. Do you have any	Yes	66 (90.4%)	44 (77.1%)	110 (84.6%)	4.296	0.038*
instrument in your	No	7 (9.6%)	13 (22.9%)	20 (15.4%)	-1.270	0.050
clinic to measure	110	7 (9.070)	15 (22.770)	20 (13.470)		
pocket depth?						
Q6. Which parameter	Clinical findings	6 (8.2%)	1 (1.8%)	7 (5.4%)	3.770	0.152
	Radiographs	2 (2.7%)	4 (7.0%)	6 (4.6%)		0.152
confirm periodontitis?	Both	65 (89.0%)	52 (91.2%)	117 (90.0%)	-	
-	Yes	67 (91.8%)	46 (80.7%)	113 (86.9%)	3.456	0.063
periodontal	No	6 (8.2%	11 (19.3%)	17 (13.1%)		0.005
destruction and bone	140	0 (0.270	11 (19.570)	17 (13.170)		
loss as a factor						
affecting orthodontic						
treatment?						
	1997/1999/older	47 (64.4%	28 (49.1%)	75 (57.7%)	3.054	0.081
classification for	1))///1))//01401	-7 (0-1.+70	20 (49.170)	15 (51.170)	5.054	0.001
periodontitis do you	2017	26 (35.6%	29 (50.9%	55 (42.3%)	-	
follow?	2017	20 (33.070	2) (30.) /0	55 (42.570)		
Q9. If interdental	Stage I-Initial	42 (57.5%)	22 (38.6%)	64 (49.2%)	9.144	0.027*
-	periodontitis	42 (37.370)	22 (38.070)	04 (49.270)	9.144	0.027
	*	24 (32.9%)	19 (33.3%)	43 (33.1%)	_	
	periodontitis	24 (32.9%)	19 (33.3%)	45 (55.1%)		
and maximum	<u> </u>	3 (4.1%)	4 (7.0%)	7 (5.4%)		
probing depth less	periodontitis with	5 (4.170)	+(7.070)	/ (3.4%)		
than 4 mm then it is	potential for additional					1
	tooth loss					
	No idea	4 (5.5%)	12 (21.1%)	16 (12.3%)		
	no luca	+ (3.3%)	12 (21.1%)	10(12.3%)		
010 If a matiant in	Interdentel CAL	5 (6.8%)	3 (5.3%)	8 (6.2%)	1.469	0.689
Q10. If a patient is having stage II grade	(Clinical Attachment	5 (0.0%)	5 (5.5%)	0 (0.2%)	1.409	0.009
B Periodontitis, then;	Level) at site of					
	greatest loss is 1-2 mm					
	& moderate rate of					
	a moustate fate of					1

	•					
	progression	22 (21 50()	22 (40, 40())	46 (25 40/)	_	
	Interdental	23 (31.5%)	23 (40.4%)	46 (35.4%)		
	CAL(Clinical					
	Attachment Level) at					
	site of greatest loss is					
	3-4 mm & moderate					
	rate of progression					
	Interdental	26 (35.6%)	20 (35.1%)	46 (35.4%)		
	CAL(Clinical	· · · ·	, ,	· · · ·		
	Attachment Level) at					
	site of greatest loss is					
	>5 mm & moderate					
	rate of progression					
	rate of progression					
	No idea	19 (26.0%)	11 (19.3%)	30 (32.1%)	_	
Q11. If interdental		1 (1.4%	0 (0.0%)	1 (0.8%)	2.920	0.404
CAL(Clinical	periodontitis	- (- ()	- (010/0)		
		13 (17.8%)	16 (28.1%	29 (22.3%)		
	periodontitis		10 (2011/0	_> ()		
>5mm and probing	4	46 (63.0%)	30 (52.6%)	76 (58.5%)	-	
	periodontitis with	40 (03.0%)	50 (52.070)	70 (38.370)		
then it is	potential for additional					
	tooth loss					
	No idea	13 (17.8%)	11 (19.3%)	24(19.50)	-	
	ino idea	15 (17.8%)	11 (19.3%)	24 (18.5%)		
O12. Radiograph or	Grade A: Slow rate of	54 (74.0%)	19 (33.3%)	73 (56.2%)	38.643	0.000*
CAL(Clinical	progression					
		3 (4.1%)	25 (43.9%)	28 (21.5%)		
show no evidence of		5 (11170)	20 (10.070)	20 (21.570)		
	Grade C	0 (0.0%)	4 (7.0%)	4 (3.1%)		
then it is	No idea	16 (21.9%)	9 (15.8%)	25 (19.2%)	-	
	Yes		53 (93.0%)	125 (96.2%)	2.761	0.097
		72 (98.6%)			2.701	0.097
	No	1 (1.4%)	4 (7.0%)	5 (3.8%)		
patients showing signs						
of gingival or						
periodontal diseases?						
Q14. Do you perform		33 (45.2%)	29 (50.9%)	62 (47.7%)	0.413	0.521
curettage in patients	No	40 (54.8%)	28 (49.1%)	68 (52.3%)		
with chief complaint						
of bleeding gums?						
Q15. Do you consider	Yes	68 (93.2%)	44 (77.2%)	112 (86.2%)	6.833	0.009*
14 No. 10 No.	No	5 (6.8%)	13 (22.8%	18 (13.8%)		
like flap surgeries and			1			
root coverage are			1			
successful?						
Q16. Do you give oral	Yes	58 (79.5%)	42 (73.7%)	100 (76.9%)	1.650	0.438
	At times	15 (20.5%)	14 (24.6%)	29 (22.3%)	1	
	No	0 (0.0%)	1 (1.8%)	1 (0.8%)	1	
technique and use of		,				
any interdental aids to			1			
the patients?			1			
Q17. Do you perform	Yes	31 (42.5%)	21 (36.8%)	52 (40.0%)	0.422	0.516
mucogingival	No	42 (57.5%)	36 (63.2%)	78 (60.0%)		5.510
surgeries in your		12 (37.370)	50 (05.270)	/0 (00.070)		
clinic?			1			
chine:				1		1

18. Do you refer your	Yes	55 (75.3%)	48 (84.2%)	103 (79.2%)	1.530	0.216
patient to a	No	18 (24.7%)	9 (15.8%)	27 (20.8%)		
periodontist/ Do you						
have a consultant						
periodontist visiting						
your practice?						
Q19. Do you want	Yes	69 (94.5%)	54 (94.7%)	123 (94.6%)	0.003	0.957
educational program	No	4 (5.5%)	3 (5.3%)	7 (5.4%)		
on the new						
classification,						
diagnosis & treatment						
planning in						
periodontics?						

Table 2:- Response of the participants of with different educational qualification.

Question	Response	BDS	MDS	Total	Chi-square	P value
					value	
Q1. Is there difference		71 (100%)	59 (100%)	130 (100%)	_	-
between gingivitis and	No	0 (0.0%)	0 (0.0%)	0 (0.0%)		
periodontitis?						
Q2. Do you examine		71 (100.0%)	58 (98.3%)	129 (99.2%)	1.213	0.271
various signs and	No	0 (0.0%)	1 (1.7%)	1 (0.8%)		
symptoms of periodontal						
disease regardless of						
patient's chief						
complaint?						
Q3. When do you say		3 (4.2%)	3 (5.1%)	6 (4.6%)	2.338	0.504
that the patient is having						
periodontitis?	depth					
	Mobility and furcation	6 (8.5%)	2 (3.4%)	8 (6.2%)		
	involvement					
	Both	61 (85.9%)	54 (91.5%)	115 (88.5%)		
	No idea	1 (1.4%)	0 (0.0%)	1 (0.8%)		
Q4. Do you record		48 (67.6%)	40 (67.8%)	88 (67.7%)	0.001	0.982
pocket depth as a part of	No	23 (32.4%)	19 (32.2%)	42 (32.2%)		
routine oral health						
examination?						
Q5. Do you have any		59 (83.1%)	51 (86.4%)	110 (84.6%)	0.276	0.599
instrument in your clinic	No	12 (16.9%)	8 (13.6%)	20 (15.4%)		
to measure pocket						
depth?						
Q6. Which parameter do		5 (7.0%)	2 (3.4%)	7 (5.4%)	0.878	0.645
you prefer to confirm	Radiographs	3 (4.2%)	3 (5.1%)	6 (4.6%)		
periodontitis?	Both	63 (88.7%)	54 (91.5%)	117 (90.0%)		
Q7. Do you consider	Yes	58 (81.7%)	55 (93.2%)	113 (86.9%)	3.769	0.052
periodontal destruction	No	13 (18.3%)	4 (6.8%)	17 (13.1%)		
and bone loss as a factor		. ,	. ,			
affecting orthodontic						
treatment?						
Q8. Which classification	1997/1999/older	40 (56.3%)	35 (59.3%)	75 (57.7%)	0.118	0.732
for periodontitis do you				. ,		
follow?	2017	31 (43.7%)	24 (40.7%)	55 (42.3%)	1	
Q9. If interdental		33 (46.5%)	31 (52.5%)	64 (49.2%)	9.521	0.023*
	periodontitis	` '	, í			
Level at site of greatest	A	30 (42.3%)	14 (23.7%)	43 (33.1%)	1	

loss is 1.2mm and	namia dantitia					
loss is 1-2mm and maximum probing depth	periodontitis Stage III: Severe	4 (5.6%)	2 (3.4%)	7 (5.4%)	_	
less than 4 mm then it is	periodontitis with	4 (3.0%)	2 (3.4%)	7 (3.4%)		
iess than 4 min then it is	potential for additional					
	tooth loss					
	No idea	4 (5.6%)	12 (20.3%)	16 (12.3%)		
	no idea	4 (3.0%)	12 (20.5%)	10 (12.5%)		
Q10. If a patient is	Interdental CAL	4 (5.6%)	4 (6.8%)	8 (6.2%)	5.595	0.133
having stage II grade B	(Clinical Attachment	. (0.070)	. (0.070)	0 (0.270)	0.070	0.100
Periodontitis, then;	Level) at site of					
- •····,	greatest loss is 1-2 mm					
	& moderate rate of					
	progression					
	Interdental	29 (40.8%)	17 (28.8%)	46 (35.4%)		
	CAL(Clinical		17 (201070)	10 (0011/0)		
	Attachment Level) at					
	site of greatest loss is					
	3-4 mm & moderate					
	rate of progression					
	Interdental	27 (38.0%)	19 (32.2%)	46 (35.4%)	_	
	CAL(Clinical	27 (30.070)	1) (02.270)	10 (3511/0)		
	Attachment Level) at					
	site of greatest loss is					
	>5 mm & moderate					
	rate of progression					
	F Ø					
	No idea	11 (15.5%)	19 (32.2%)	30 (32.1%)		
Q11. If interdental	Stage I: initial	1 (1.4%)	0 (0.0%)	1 (0.8%)	2.762	0.430
CAL(Clinical	periodontitis					
Attachment Level) at site		19 (26.8%)	10 (18.9%)	29 (22.3%)		
of greatest loss is >5mm	periodontitis					
and probing depth more	Stage III: Severe	39 (54.9%)	37 (62.7%)	76 (58.5%)		
than 6 mm then it is	periodontitis with					
	potential for additional					
	tooth loss					
	No idea	12 (16.9%)	12 (20.3%)	24 (18.5%)		
Q12. Radiograph or	Grade A: Slow rate of	38 (53 5%)	35 (59.3%)	73 (56.2%)	10.20	0.017*
CAL(Clinical	progression	38 (33.370)	33 (39.3%)	73 (30.2%)	10.20	0.017
	Grade B: Moderate rate	22 (31.0%)	6 (10.2%)	28 (21.5%)		
no evidence of bone loss	of progression	22 (31.070)	0(10.270)	20 (21.570)		
over 5 years then it is	GRADE C	2 (2.8%)	2 (3.4%)	4 (3.1%)	-	
over 5 years then it is	No idea	9 (12.7%)	16 (27.1%)	25 (19.2%)		
Q13. Do you perform	Yes	69 (97.2%)	56 (94.9%)	125 (96.2%)	0.448	0.503
full mouth scaling for					0.448	0.505
patients showing signs of	110	2 (2.8%)	3 (5.1%)	5 (3.8%)		
gingival or periodontal						
diseases?						
Q14. Do you perform	Ves	32 (45.1%)	30 (50.8%)	62 (47.7%)	0.431	0.511
curettage in patients with		32 (43.1%) 39 (54.9%)	29 (49.2%)	68 (52.3%)	0.431	0.311
chief complaint of		59 (54.270)	29 (+9.270)	00 (32.3%)		
bleeding gums?						
Q15. Do you consider	Ves	60 (84.5%)	52 (88.1%)	112 (86.2%)	0.356	0.551
periodontal treatment		11 (15.5%)	7 (11.9%)	112 (80.2%)	0.550	0.551
like flap surgeries and		11 (13.3%)	(11.9%)	10 (13.0%)		
ince map surgeries allu	1	1	1		1	1

root coverage are successful?						
Q16. Do you give oral	Yes	51 (71.8%)	49 (83.1%)	100 (76.9%)	4.140	0.126
hygiene instructions/	At times	20 (28.2%)	9 (15.3%)	29 (22.3%)		
demonstrate brushing	No	0 (0.0%)	1 (1.7%)	1 (0.8%)		
technique and use of any						
interdental aids to the patients?						
Q17. Do you perform	Yes	19 (26.8%)	33 (55.9%)	52 (40.0%)	11.426	0.001*
mucogingival surgeries		52 (73.2%)	26 (44.1%)	78 (60.0%)		
in your clinic?		. ,		. ,		
18. Do you refer your	Yes	55 (77.5%)	48 (81.4%)	103 (79.2%)	0.296	0.586
patient to a periodontist/	No	16 (22.5%)	11 (18.6%)	27 (20.8%)		
Do you have a						
consultant periodontist						
visiting your practice?						
Q19. Do you want	Yes	67 (94.4%)	56 (94.9%)	123 (94.6%)	0.019	0.890
educational program on	No	4 (5.6%)	3 (5.1%)	7 (5.4%)		
the new classification,						
diagnosis & treatment						
planning in						
periodontics?						

Picture 1:-

			I Ictuite I.		
Periodontitis	stage	Stage I	Stage II	Stage III	Stage IV
	Interdental CAL at site of greatest loss	1 to 2 mm	3 to 4 mm	≥5 mm	≥5 mm
Severity	Radiographic bone loss	Coronal third (<15%)	Coronal third (15% to 33%)	Extending to mid-third of root and beyond	Extending to mid-third of root and beyond
Tooth loss	Tooth loss	No tooth loss due to periodontitis		Tooth loss due to periodontitis of ≤4 teeth	Tooth loss due to periodontitis of \geq 5 teeth
Complexity	Local	Maximum probing depth ≤4 mm Mostly horizontal	Maximum probing depth ≤5 mm Mostly horizontal	In addition to stage II complexity: Probing depth ≥6 mm Vertical bone loss ≥3 mm	In addition to stage III complexity: Need for complex rehabilitation due to: Masticatory dysfunction
		bone loss	bone loss	Furcation involvement Class II or III Moderate ridge defect	Secondary occlusal trauma (toot mobility degree ≥2) Severe ridge defect Bite collapse, drifting, flaring Less than 20 remaining teeth (10 opposing pairs)
Extent and	Add to stage as	For each stage, desc	ribe extent as localized	l (<30% of teeth involved), g	eneralized, or molar/incisor pattern

distribution descriptor I

Conclusion:-

The world workshop 2017 Periodontal Classification is based on sound scientific ground and most clinically oriented classification. According to the classification diagnosis should be written as Generailsed/Localized Periodontitis, Stage I/II/III/IV, Grade A/B/C.

The importance of a regular Periodontal examination/Screening should be emphasized to thegeneraldentist. This can be achieved by conducting Continuing Dental Education program for general dentist and specialist dentist of other branch. A completely innovative technology can be used and information can be given by conducting webinars. All

the institutes should incorporate 2017 periodontal classification in the curriculum of under graduate dental students so that they can come out with the knowledge of latest trend of periodontal disease classification, diagnosis and periodontal management.

General dentist should be aware of multidisciplinary approach and give referral to Periodontist for periodontal management. This change in practice will enhance the treatment outcome & longevity of dentition.

References:-

- 1. Quijano A, Shah AJ, Schwarcz AI, Lalla E, Ostfeld RJ. Knowledge and orientations of internal medicine traineestoward periodontal disease. J Periodontol2010;81:359-63.
- 2. Smitha K, Pradeep AR, Anvitha D, Pattar I. Factors influencing the periodontal referral behaviour of the general dental practitioners to a periodontist: A cross-sectional survey. Indian Journal of Dental Research. 2020 Jul 1;31(4):629.
- 3. Caton J. Periodontal diagnosis and diagnostic aids. In: World Workshop in Clinical Periodontics. Chicago: American Academy of Periodontology; 1989: 11–122.
- 4. Consensus report on diagnosis and diagnostic aids. In: World Workshop in Clinical Periodontics. Chicago: American Academy of Periodontology; 1989: I23–I31.
- 5. Proceedings of the 1st European Workshop on Periodontics, 1993. London: Quintessence; 1994.
- 6. Lindhe J, Ranney R, Lamster I, et al. Consensus report: chronic periodontitis. Ann Periodontol. 1999; 4: 38.
- Lang N, Bartold PM, Cullinan M, et al. Consensus report: aggressive periodontitis. Ann Periodontol. 1999; 4: 53.
- 8. Lang N, Soskolne WA, Greenstein G, et al. Consensus report: necrotizing periodontal diseases. Ann Periodontol. 1999; 4: 78.
- 9. Caton JG, Armitage G, Berglundh T, Chapple IL, Jepsen S, Kornman KS, Mealey BL, Papapanou PN, Sanz M, Tonetti MS. A new classification scheme for periodontal and peri-implant diseases and conditions–Introduction and key changes from the 1999 classification.
- 10. Tonetti MS, Greenwell H, Kornman KS. Staging and grading of periodontitis: Framework and proposal of a new classification and case definition. Journal of periodontology. 2018 Jun;89:S159-72.