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Reverberation of marine environs on oral health and its correlation with the year of experience and social economic status of naval personnel

¹Abhishek S, Undergraduate Student, Department of Public Health Dentistry, SRM Dental College, Chennai, India.

²Dr. Bharathwaj V V, Senior Lecturer, Department of Public Health Dentistry, SRM Dental College, Chennai, India.

³Dr. Sathiyapriya S, Senior Lecturer, Department of Public health Dentistry, SRM Dental College, Chennai, India.

⁴Dr. Prabu D, Head of the Department, Department of Public Health Dentistry, SRM Dental College, Chennai, India.

⁵Dr. Rajmohan M., Reader, Department of Public Health Dentistry, SRM Dental College, Chennai, India.

⁶Dr. Sindhu R, Senior Lecturer, Department of Public health Dentistry, SRM Dental College, Chennai, India.

⁷Dr. Dinesh Dhamodhar, Reader, Department of Public Health Dentistry, SRM Dental College, Chennai, India.

Corresponding Author: Dr. Prabu D, Head of the Department, Department of Public Health Dentistry, SRM Dental College, Chennai, India.

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Abstract

Background: The study was done to assess the oral hygiene measure and oral health practice among naval personnel, their attitude and knowledge towards it correlation to their year of experience and social economic status.

Methods & Methodology: The study was conducted among the naval personnel's residing in ship and naval base from all different naval commands i.e., Kochi, Mumbai, Vishakhapatnam, Delhi and Andaman. The study tool is a pre validated questionnaire consisting 22 questions in google form which are aimed about oral hygiene practice, socioeconomic status and year of experience of naval personnel's.

Result: The study was done among 150 naval personnel residing in ship and naval base of all the different commands. It was found that 80% naval personnel are prone to periodontitis and gingivitis. 45% of personnel visit dental centre once in a year. 50 % of personnel change their brushes after 3 months. 10% of personnel visit dental centre only on toothache or any aggravating pain. 90% personnel use toothpaste containing fluoride and 10% of personnel uses powder like charcoal. It also seen that 90% of personnel consumes alcohol, one drink per day.

Conclusion: The study tells that majority of the personnel's are not aware about oral hygiene practice

and most of them are affected with bleeding gums and lacks oral health care.

Keywords: Oral Health, Periodontal Disease, Rank, Social Economic Status, Year of Experience.

Introduction

Oral health is the health of the teeth, gums, and the entire oro-facial system that allows us to smile, speak, and chew. Many common diseases that affect our oral health include tooth decay, gum disease, and oral cancer. Oral hygiene is the maintenance of keeping individual's mouth clean and free of disease and other problems by brushing teeth using toothbrush & toothpaste regularly. It is important that oral hygiene to be carried out on a daily basis to enable prevention of disease the working condition of naval personnel vary widely. While on typical they are marine environs and works in different climatic condition and adverse high sea condition and prone to many disease and other habitual. They work in different kinds of vessels like Aircraft carriers, Destroyers, Frigate, Curvets and Oil tankers which goes through different climatic condition which can affects their oral health (1). Another factors are like variation in quality of drinking water, sometimes variation in TMP level of water. According to class of ship there will be difference sailing duration sometimes it may extent from 6 months to 8 months and different naval exercises are performed which are all factors potentially affects the oral health. The personnel's in destroyers are prone to war exercises and radiation due radar frequency, missile launcher signals and other radioactive elements .most severe problem is that on any threat alert there will be 24 to 48 hours of naval operations in which personnel works in watches and this causes lack of sleep which leads to stress, headache etc. On all types of Ships this influences nutritional growth, with frequent consumption of snacks, caffeine stimulants particularly during the night time. Daily intake of fermentable carbohydrates during the duty time is a prime risk factor for dental caries. At offshore personnel consume alcohol which is another factor affecting the oral health. The purpose or need of this study is to know the oral hygiene of naval personnel residing in ships and base of all the fleet. The study in done from Eastern fleet, Western fleet and Southern fleet. There is a relative studies where a survey is done in Chinese people liberation Army to know the change in periodontal health status. Research in advances in oral health knowledge of Greek Navy (2). Oral health in Iranian Armed forces (3). Oral health in personnel residing in ship is different from personnel residing base. This is due to different lifestyles.

Methods and Methodology

The study was conducted among the naval personnel's residing in ship and naval base from all different naval commands i.e., Kochi, Mumbai, Vishakhapatnam, Delhi and Andaman. Ethical clearance was given by the Department of Public Health Dentistry, SRM Dental College, and Ramapuram. The head of the department and other faculty members were informed about the purpose of the study and their permission was granted. The study was conducted among 150 samples by convenience sample technique using a structured electronic questionnaire. The study tool is a prevalidated questionnaire consisting 22 questions to evaluate the oral hygiene of naval personnel's in correlation with socioeconomic status and year of experience. The questionnaire was investigator approved, selfadministered and closed ended. The study participants were supplied with instruction given the questionnaire in google form.

The questionnaire consisted of 22 questions were it aimed about oral hygiene practice, socioeconomic status

and year of experience of naval personnel's. Few questions were prepared to know their rating and knowledge about oral health and awareness. The questions were asked based on the WHO questions criteria.

After receiving responses and evaluation of the knowledge and awareness were done. These were statistically analysed result. Statically result analysis were carried by statistician and the P value level set at 0.05.

Results

A. Rank

Questions	Options	Rank						
1. How many		Captain	Commander	СРО	LS	PO	MCPO	P value
natural teeth								
do you have?								
	a. 1-9 teeth			1			1	
	b. 10-19 teeth						1	-
	c. 20 teeth or more	8	7	28	25	31	28	0.804
2. During the	a. Yes						1	
past 12	b. Don't know		1	1	6		2	-
months, did								
your teeth or	c. No	2	2	18	17	20	12	0.015
mouth cause								
any pain or								
discomfort?								
3. Do you	a. Yes						2	
have any	i. partial denture							
removable	ii. full upper denture	8	7				1	0.811
dentures?	iii. full lower denture							
	b. No			27	25	30	25	
4. How would	a. Poor							
you describe	b. Average	7	5	4	1	4	2	-
the state of	c. Good	1	2	17	10	21	22	0.000
your teeth and	d. Very good			4	13	5	4	-
gums?	e. Excellent			3	1	1	1	-
5. How often	a. Once a month							
do you clean								
your teeth?	b. 2–3 times a month	7		1				-
	c. Once a week					2	1	1

			•••••					• • • • • • • •
	d. 2–6 times a week							0.310
	e. Once a day			1	6	16	12	
	f. Twice or more a day			12	18	13	16	
6. Do you use	a. Toothbrush	4	4	28	22	30	28	
any of the	b. Wooden toothpicks		2		1			
following to	c. Plastic toothpicks				1			0.000
clean your	d. Dental floss	2	1					
teeth?	e. Charcoal							
	f. Chew stick	1				1	1	
	g. Other	1			1		1	-
7. Do you use	a. Yes	7	7	27	25	31	28	
toothpaste to	b. No	1		1			1	
clean your	D. NO	1		1			1	0.650
teeth?								
8. Do you use	a. Yes	2	2	6	2	3	4	
toothpaste that	b. No	6	5	22	23	28	25	0.742
contains								
fluoride?								
	a. Less than 6 months	2		2		3	3	
	b. 6–12 months	4	3	21	21	25	21	
9. How long is	c. More than 1 year but less	1	3	3	2	1	1	
it since you	than 2 years							
last saw a	d. 2 years or more but less than		1	1			3	
dentist?	5 years							0.179
	e. 5 years or more			1			1	
	f. Never received dental care	1			2	2		
10. What was	a. Consultation/ Advice		1	2				
the reason of	b. Pain or trouble with teeth,	6	5	5		2	6	1
your last visit	gums or mouth							0.000
to the dentist?	c. Treatment/ follow-up	1		6	3	9	12	1
	treatment							
	d. Routine check up	1	1	15	22	20	19	1
11. Because of	(a) Difficulty in biting foods	1	2	12	21	21	17	
the state of								
L	l .	ı	1	1	1	1	1	1

your teeth or	(b) Difficulty chewing foods	4	1	9	2	5	1		l
mouth, how									
often have you	(c) Difficulty with speech/		1						
experienced	trouble pronouncing words.								
any of the	(d) Dry mouth								l
following	(e) Felt embarrassed due to	1							
problems	appearance of teeth.								
during the past	(f) Felt tense because of							0.000	
12 months?	problems with teeth								
	or mouth								l
	(g) Have avoided smiling			1	1		1		
	because of teeth								
	(h) Had sleep that is often								
	interrupted								
	(i) Have taken days off work								
	(j) Difficulty doing usual			2					
	activities								
	(k) Felt less tolerant of spouse			1					
	or people who are close to								
	you								
	(l) Have reduced participation								
	in social activities								
12. How often	a. Fresh fruit	1	1	1	1	1	3		
do you eat or	b. Biscuits and cakes	1	1	1	2	1	1		
drink any of	c, Cream cakes		1	1	1	2	1		
the following	d. Sweet pies, buns	1	1	1			2		
foods, even in	e. Jam or honey	1	1	1			4		
small	f. Chewing gum containing	1	1	5			1		
quantities?	sugar								
	g. Sweets/candy	1	1	2	1		1		
	h. Lemonade, i. Coca Cola	1	1	1	4	4	2	0.000	l
	or other soft drinks								
	j. Tea with sugar	1	1	1	1				
	k. Coffee with sugar								l
13. How often	a. Cigars								•

. <u></u>	<u></u>	<u></u>	<u> </u>	<u></u>	<u></u> .	<u> </u>	<u></u>	<u></u>
do you use any	b. A pipe							
of the	c. Chewing tobacco							
following	e. No	8	7	26	25	28	25	0.741
types of								
tobacco?								
14. How often	a. Once	2	3	15	20	17	9	
did you go to	b. Twice	2	2	6	2	6	10	
the dentist	c. Three times	3		3		3	5	0.633
during the past	d. Four times	1	1	1		1	1	
12	e. More than four times	1		2		1		
	f. I had no visit to dentist		1	2	2	2	2	
	during the past 12 months							
	g. I have never received dental	1			1		2	
	care/visited a dentist							
15. During the	a. Less than 1 drink	2		2	2	1		
past 30 days,	b. 1 drink	4	1	5	2	3	7	
on the days	c. 2 drinks	•	3	2	1	1	4	
you drank	d. 3 drinks	1		2	1	1		
alcohol, how		1	1	1			4	0.020
many drinks	e. 4 drinks			1				
did you	f. 5 or more drinks					1		
usually drink	g. Did not drink alcohol during	1	2	19	21	23	13	
per day ?	the past 30 days							
16. How often	a. Often			1		2	4	
during the past	b. Occasionally	7	5	11	1	14	14	
12 months did	c. Rarely			10	3	7	7	
you have	d. Never	1	1	1	10	7	3	0.003
toothache or	e. Don't know	-	-	5	11	7	4	
feel discomfort	C. Don't know					,		
due to your								
teeth?								
17. Any	a. Yes	8	7	28	25	31	29	
periodontal	b. No			1	1		1	0.785
disease like	5.110				•			002
gingivitis and								
periodontitis?								
periodolitius:								

18. What level	a. Secondary school completed	1	1	14	19	21	20	
of education	b. Science stream	1	1	5		3		
have you	c. Commerce stream	1		1	2		1	
completed?	d. Undergraduate degree		3	6	4	3	6	0.001
	e. Postgraduate degree	5	2	2			1	
19.	a. 0							
Considering	b. 1	1					1	
your	c. 2							
knowledge	d. 3		1	3			2	
about the	e. 4	4	5	2	3	6	4	0.001
benefits of oral	f. 5	3	1	23	22	25	22	
health care,								
how likely are								
you to								
recommend it								
your friends /								
colleague?								

B. Years of experience

Questions	Options		Years of Exp	erience		P value
1. How many natural		0-10 years	11-20	21-30	More than	
teeth do you have?			years	years	30 years	
	a. No natural teeth					
	b. 1–9 teeth			1		0.661
	c. 10–19 teeth			1		
	d. 20 teeth or more	56	32	33	6	
2. During the past 12	a. Yes			1		
months, did your teeth	b. No	6	2	1	1	
or mouth cause any	c. Don't Know	43	15	10	3	
pain or discomfort?						0.001
3. Do you have any	a. A partial denture		1	1		
removable dentures?	b. A full upper denture			1		0.003
	c. A full lower denture				1	
4. How would you	a. Excellent	1	3	1	1	
describe the state of	b. Very good	22	3	1	1	
your teeth and gums?	c. Good	29	22	20	1	

						0.000
	d. Average	4	4	12	3	
	e. Poor					
	f. Very poor					
5. How often do you	a. Once a month		1			
clean your teeth?	b. 2–3 times a month		3			
	c. Once a week			1		0.198
	d. 2–6 times a week	1				
	e. Once a day	22	18	17	4	
	f. Twice or more a day	33	10	17	2	
6. Do you use any of	a. Toothbrush	55	29	26	6	
the following to clean	b. Wooden toothpicks	1	1	1		
your teeth?	c. Plastic toothpicks					0.597
	d. Dental floss		1	2		
	e. Charcoal			1		
	f. Chew stick					
7. Do you use	a. Yes	55	32	32	6	0.653
coothpaste to clean	b. No	1		2		
your teeth?						
8. Do you use a	a. Yes	6	5	5	3	
toothpaste that						
contains fluoride?	b. No	50	27	29	3	0.294
	0.140	30	27	2)		
9. How long is it since	a. Less than 6 months	1	2	6	1	
you last saw a dentist?	b. 6–12 months	2	21	25	47	
	c. More than 1 year but	3	2	5	1	
	less than 2 years					
	d. 2 years or more but		2	2	1	0.024
	less than 5 years					
	e. 5 years or more	1			1	
	f. Never received dental	4	1			
	care					
10. What was the	a. Consultation/ Advice	1	2			
reason of your last						0.000

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visit to the dentist?	b. Pain or trouble with	2	5	15	2	
	teeth, gums or mouth					
	c. Treatment/ follow-up	4	12	12	3	
	treatment					
	d. Routine check up	49	13	7	1	
11. Because of the	(a) Difficulty in biting	46	15	11	2	
state of your teeth or	foods					
mouth, how often	(b) Difficulty chewing	5	1	9	1	
have you experienced	foods					
any of the following	(c) Difficulty with	2	1	1		
problems during the	speech/trouble					
past 12 months?	pronouncing words.					
	(d) Dry mouth	1	2	1		
	(e) Felt embarrassed due	1	2	2		
	to appearance of teeth.	1	2	2		
				1		
	(f) Felt tense because of			1		0.000
	problems with teeth					0.000
	or mouth					
	(g) Have avoided smiling	1		1		
	because of teeth					
	(h) Had sleep that is			3	3	
	often interrupted					
	(i) Have taken days off					
	work					
	(j) Difficulty doing usual					
	activities					
	(k) Felt less tolerant of					
	spouse					
	or people who are close					
	to you					
	(l) Have reduced					
	participation					
	in social activities					
12. How often do you	a. Fresh fruit	1	2	2		
eat or drink any of the						
L						

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following foods, even	b. Biscuits and cakes	1	1	1		
in small quantities?	c, Cream cakes	1	1	1		
	d. Sweet pies, buns	1	1	1	2	
	e. Jam or honey			1		
	f. Chewing gum	1	1	1		
	containing sugar					
	g. Sweets/candy			1		0.146
	h. Lemonade, i. Coca	4		1		
	Cola or other soft drinks					
	j. Tea with sugar		3			
	k. Coffee with sugar					
13. How often do you	a. Cigars					
use any of the	b. A pipe					
following types of	c. Chewing tobacco					0.000
tobacco?	d. Use snuff					
	e. No	55	29	29	8	
14. How often did you	a. Once	45	9	10	2	
go to the dentist	b. Twice	5	10	14		
during the past 12	c. Three times		6	5	1	
	d. Four times	1		3	1	0.000
	e. More than four times		2			
	f. I had no visit to dentist	3	3	2	1	
	during the past 12					
	months					
	g. I have never received	2	2		1	
	dental care/visited a					
	dentist					
	a. Less than 1 drink		3	1	1	
15. During the past 30	b. 1 drink	5	6	10	1	
days, on the days you	c. 2 drinks		4	6	1	
drank alcohol, how	d. 3 drinks	2	1	4	1	
many drinks did you	e. 4 drinks	1	_		_	0.02
usually drink per day?	f. 5 or more drinks	-	1			
F and	g. Did not drink alcohol	49	17	11	2	
	during the past 30 days	コノ	1,	11	_	
	during the past 30 days					

16. How often during	a. Often	1	1	2		
the past 12 months did	b. Occasionally	11	20	18	2	
you have toothache or	c. Rarely	5	7	9	2	0.313
feel discomfort due to	d. Never	19	2	1	1	_
your teeth?	e. Don't know	20	2	4	1	=
17. Any periodontal	a. Yes	56	32	34	6	
disease like gingivitis						0.798
and periodontitis?	b. No	1		1		-
18. What level of	a. Secondary school	34	22	19	1	
education have you	completed					0.125
completed?	b. Science stream	6	3	1		
	c. Commerce stream	1		4	1	_
	d. Undergraduate degree	10	6	4	2	_
	e. Postgraduate degree	5	1	6	2	_
19. Considering your	a. 0					
knowledge about the	b. 1	1	1			_
benefits of oral health	c. 2					0.000
care, how likely are	d. 3	1		4	1	1
you to recommend it	e. 4	2	11	9	2	1
your friends /	f. 5	53	21	20	2	
colleague?						

C. Social Economic Status (SES)

Questions	Options		SE	ES		P value
1. How many natural teeth do you have?		Upper	Lower	Upper	Lower	
		Middle	Middle	Lower		
	a. No natural teeth]
	b. 1–9 teeth		1			0.544
	c. 10-19 teeth	1				1
	d. 20 teeth or more	93	15	5	14	
2. During the past 12 months, did your	a. Yes		1			
teeth or mouth cause any pain or	b. No	50	11	2	8	1
discomfort?	c. Don't know	7	1	1	1	0.531

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3. Do you have any removable dentures?	a. A partial denture			1	1	
	b. A full upper		1			1
	denture					0.00
	c. A full lower		1			
	denture					
4. How would you describe the state of	a. Excellent	2	1		3	
your teeth and gums?	b. Very good	20	5	1	1	1
	c. Good	58	8	2	4	1
	d. Average	14	1	2	6	0.010
	e. Poor		1			-
	f. Very poor					_
5. How often do you clean your teeth?	a. Once a month		1			
	b. 2–3 times a	1	2			1
	month					
	c. Once a week		1			0.052
	d. 2–6 times a week	1				-
	e. Once a day	50	4	3	4	-
	f. Twice or more a	42	8	2	10	-
	day					
6. Do you use any of the following to	a. Toothbrush	91	13	5	7	
clean your teeth?	b. Wooden	2	1			_
•	toothpicks					
	c. Plastic toothpicks		1		1	-
	d. Dental floss				1	0.000
	e. Charcoal				1	-
	f. Chew stick					-
	g. Other	1			1	-
7. Do you use toothpaste to clean your	a. Yes	92	15	5	13	0.397
teeth?	b. No	2			1	-
8. Do you use a toothpaste that contains	a. Yes	7	2	3	7	
fluoride?	b. No	87	13	2	7	0.000
9. How long is it since you last saw a	a. Less than 6	7			3	
dentist?	months	,				
	b. 6–12 months	74	12	3	6	-
	c. More than 1 year	8			3	-
	c. wiore than I year	J			3	

	but less than 2					0.026
	years .					0.020
	d. 2 years or more	3		1	1	_
	but less than 5	J		1	1	
	years					_
	e. 5 years or more	1	1			
	f. Never received	1	2	1	1	
	dental care					
	a. Consultation/	2			1	
10. What was the reason of your last	Advice					
visit to the dentist?	b. Pain or trouble	11	1	3	9	-
	with teeth, gums or					
	mouth					0.000
	c. Treatment/	25	5	1		_
	follow-up treatment	23		1		
		7.6	0	1	4	
	d. Routine check up	56	9	1	4	
11. Because of the state of your teeth or	(a) Difficulty in	1	1		1	
mouth, how often have you experienced	biting foods					
any of the following problems during	(b) Difficulty	18	2	3		
the past 12 months?	chewing foods					
	(c) Difficulty with				1	-
	speech/trouble					
	pronouncing words.					
	(d) Dry mouth	1				-
	(e) Felt				1	1
	embarrassed due to					
	appearance of teeth.	1				_
	(f) Felt tense	1				
	because of					
	problems with					
	teeth					0.000
	or mouth					
	(g) Have avoided	2	1			1
	smiling because of					
	teeth					
				1		

					• • • • • • •	
	(h) Had sleep that					
	is often interrupted					
	(i) Have taken days					
	off work					
	(j) Difficulty doing					
	usual activities					
	(k) Felt less tolerant					
	of spouse or					
	people who are					
	close to you					
	(l) Have reduced					
	participation in					
	social activities					
12. How often do you eat or drink any of	a. Fresh fruit	11	1			
the following foods, even in small	b. Biscuits and	5				
quantities?	cakes					
	c. Cream cakes		1			
	d. Sweet pies, buns					
	e. Jam or honey	1		1		
	f. Chewing gum					
	containing sugar					
	g. Sweets/candy					
	h. Lemonade, Coca				2	
	Cola or other soft					0.000
	drinks					
	i. Tea with sugar	19	2			
	j. Coffee with sugar	6	3			
13. How often do you use any of the	a. Cigars					
following types of tobacco?	b. A pipe					
	c. Chewing tobacco					0.187
	d. No	87	14	5	13	
14. How often did you go to the dentist	a. Once	54	8	2	2	
during the past 12 months?	b. Twice	20	2		7	
	c. Three times	8	1	1	2	
	d. Four times	5				

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						0.145
	e. More than four	2				
	times					
	f. I had no visit to	4	3		2	
	dentist during the					
	past 12 months					
	g. I have never	1	1	2	1	
	received dental					
	care/visited a					
	dentist					
15. During the past 30 days, on the days	a. Less than 1 drink	1	1	1	2	
you drank alcohol, how many drinks did	b. 1 drink	16	1		5	
you usually drink per day?	c. 2 drinks	10	1			
	d. 3 drinks	5		1	2	0.799
	e. 4 drinks	1				
	f. 5 or more drinks	1				
	g. Did not drink	59	12	3	5	
	alcohol during the					
	past 30 days					
16. How often during the past 12 months	a. Often	4				
did you have toothache or feel	b. Occasionally	35	7	2	7	
discomfort due to your teeth?	c. Rarely	16	3	2	2	0.003
	d. Never	18	2		3	
	e. Don't know	21	3	1	2	
17. Any periodontal disease like	a. Yes	1	1	1	2	
gingivitis and periodontitis?			15	5	1.4	0.425
	b. No	94		3	14	0.423
18. What level of education have you	a. Secondary school	61	11		4	
completed?	completed					
	b. Science stream	5		2	3	
	c. Commerce	4	1		1	
	stream					0.014
	d. Undergraduate	15	3	2	2	
	degree					
	e. Postgraduate	9		1	4	
19. Considering your knowledge about	a. 0					

the benefits of oral health care, how						
likely are you to recommend it your						
friends / colleague?						
	b. 1	1		1		0.001
	c. 2					
	d. 3	2	1	1	2	
	e. 4	14	2	2	6	
	f. 5	77	12	1	6	

Discussion

Mouth is like mirror of our body and the foods we eat enter through our body passes through the oral cavity. Hence it very important to maintain the oral hygiene and practice good oral health and if it is ignored it can lead to many social problems (4). Almost 90 % of the people are not aware of the fact that presence of oral diseases which seen in mouth and can be a risk factor to various systemic diseases or any disorder (5). The most common disease which is seen in oral cavity is periodontitis and dental caries (6). Therefore prevention of the disease is required, so it's very important to do so through proper awareness of the oral hygiene and oral health practice to be done among the people. Keeping all this fact and measures in mind a study was done to understand the level of oral hygiene awareness and practice among naval personnel's correlation to their year of experience and social economic status (7).

The study was done among 150 naval personnel's residing in ship and naval base of all the different commands. The data was collected in the form of questionnaire which consists of 22 questions to evaluate the oral hygiene and oral health practice of naval personnel's. In this study we have 50 officers who include Captain and Commander and 100 sailors which include MCPO, CPO, PO and LS. In this study we have well educated officers and sailors who are undergraduate, science stream and commerce stream and belong to

upper middle, lower middle, upper lower, lower and having year of experience ranging from 0 to 10 year, 11 to 20 years, 21 to 30 years and More than 30 years.

Through this study it is found that naval personnel's residing in ships brushes at least once a day and those who are in base, majority brushes twice a day (8). But this doesn't mean that all of them have a good oral hygiene or oral health practice. But it is found that most of the naval personnel's of different rank, year of experience and social economic status uses tooth brush for brushing teeth (P<0.01). It is also seen the majority of personnel's of different rank and year of experience consumes alcohol 1 drink per day. It is also observed that ship residing personnel's are prone to periodontal and gingivitis and compared to personnel's residing in base around 80% of personnel's are prone to gingivitis and periodontitis. It is also observed that 50 % of personnel's changes their brush after 3 months when it becomes useless which can be traumatic to gum. Around 90% of personnel's use tooth paste containing fluoride and still there are 10 % personnel's who use powder like charcoal

Around 45 % of personnel's visit dental Centre once in a year. In that 10 % visit the dental Centre only on toothache or any aggravating pain. Since, serving personnel's get free dental and medical care not visiting the dental Centre once in 3 months determines the importance they give their oral health. Moreover being a

naval personnel's they don't have habits of taking smoking, pan chewing, and consuming other tobacco products (9).

A question was asked to access their knowledge about benefits about oral health care on the basis of 1 to 5 around 90 % personnel's are aware about their oral health (P<0.01). But as we know due their working pressure and all time serving for country and 24 x 7 working time, oral health care is poor. Few months ago, oral hygiene day was observed in Kochi command where oral hygiene awareness was given and tooth brushes were distributed [10]

Conclusion

The study was done to access the level of awareness of oral hygiene and oral health practice among naval personnel's and its importance. The study tells that majority of the personnel's are not aware about oral hygiene practice and most of them are affected with bleeding gums and lacks oral health care. It is compulsory that dental surgeons of Indian navy will have to monitor each every naval personnel's and awareness is to be given about oral hygiene and practice through camps and importance of brushing and flossing through regular check-ups.

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