

B. K. L Walawalkar Rural Medical College

WALAWALKAR DANT CHIKITSA YOJANA

The health issues associated with school children are unique and need special interventions. Oral hygiene is often poor which leads to dental caries and a host of other oral and dental problems.

Keeping in mind the above challenges B.K.L Walawalkar Rural Medical College proposes to hold a School Health Check-up cum treatment camp with special emphasis on oral and dental hygiene. This camp is held on periodic basis for school children so that adequate follow-up and monitoring can be maintained.

International faculty and student participation in School Dental Health Program-

In association with National University of Singapore we also developed an application for the dental school health project which was the replica of the school dental health Performa. The application had Ratnagiri district map. The application would help with varies calculation regarding the carious teeth and the percentage of carious, oral functional capacity and the percentage fororal functional capacity was auto generated. Hence the calculation mistakes could be avoided. This application also provided us with the total summary of the school screened and the school referred.

In 2015 a dental student from UK Alexzandra Sarraha visited the dental department and was with us for 15 days

The project implementation plan (PIP) is as follows:

- 1. Screen school children for health and dental problems in all zillaparishad schools in Ratnagiri district and suggesting preventive measures for the same.
- 2. Promoting healthy living and oral health concept by ACSM activities (i.e. Advocacy, Communication and Social Mobilization)
- 3. Health education regarding oral dental hygiene and ill-effects of tobacco chewing/ meshri etc.
- 4. A kit containing tooth brush and tooth paste would be given to children with actual demonstration of brushing of teeth.
- 5. Referring children to BKL Walawalkar Hospital for further management of dental carious.
- 6. Sequential follow-up of children for keeping a track on their dental health & general health progress.
- 7. Each Taluka has 30-35 kendras and each kendras has 10-12 school.





Geographic area covered -

Total 9 TEHILS in Ratnagiri districts

- 1 Mandangad
- 2. Dapoli
- 3. Khed
- 4. Guhagar
- 5. Chiplun
- 6. Sangmeshwar
- 7. Ratnagiri
- 8. Lanja
- 9. Rajapur

Area of coverage

- 1.Chiplun
- 2.Guhagar
- 3.Sangmeshwar
- 4.Rajapur
- 5.Khed



INTRODUCTION

School going children constitute an important fraction of the total population. School children are also having tremendous latent potential as future human resource of any country.

The health issues associated with school children are unique and need special interventions. Oral hygiene is often poor which leads to dental caries and a host of other oral and dental problems. Many children have Ear, Nose and Throat infections, which can be treated with antibiotics and ensuring clean environmental conditions.

Nutritional status in school children also needs attention and many of them require nutritional supplementation.

Keeping in mind the above challenges B.K.L Walawalkar Hospital proposes to hold a School Health Check-up cum treatment camp with special emphasis on oral and dental hygiene. This camp would be held on periodic basis for school children so that adequate follow-up and monitoring can be maintained.

It is a fact that school health children are periodically screened by government health machinery i.e. by Primary Health Centre Medical Officers, but our project would be unique in the following ways:

- 1. The approach used would be both preventive and curative. The children would not just be screened but also treated for any abnormalities that might be found.
- 2. The activity would be on a periodic basis that would include sequential follow-up. This would ensure that the children's health status would indeed be improved.

- 3. Special emphasis would be on oral and dental hygiene. Basic Information Education and Communication activities on thing like regular brushing of teeth etc. would be provided to children. This would increase their awareness regarding dental hygiene and also make them aware of ill-effects of substances like gutka.
- 4. Referral services would be provided for children needing tertiary care. Children would be referred to BKL Walawalkar Hospital if the need arises and basic medical care would be provided free of cost. Special investigations and treatment would however be charged as per the institutions policies.

The project implementation plan (PIP) would be as follows:

Aim:

To promote healthy living in school children with special emphasis on preventive measures.

Objectives:

- 8. Screen school children for health and dental problems in Chiplun taluka and suggesting preventive measures for the same.
- Promoting healthy living and oral health concept by ACSM activities (i.e. Advocacy, Communication and Social Mobilization)
- 10.Treatment of simple problems like mild dental caries, nutritional deficiencies and other issues that can be dealt at field level.
- 11.Referring children which need tertiary case to BKL Walawalkar Hospital for further management.
- 12.Sequential follow-up of children for keeping a track on their health progress.
- 13.Developing a public- private partnership (PPP) model between governments' educational, health department and BKL Walawalkar Hospital in order to make the programme sustainable.
- 14.Replicating this PPP model in other talukas of Ratnagiri District.

Target:

- Cover 77 Zilla Parishad Primary Schools (1st standard to 7th standard) of Chiplun Taluka beginning from 1st November 2009 till 31st December 2010.
- Follow-up of all children in these 77 schools from 1st January 2011 till 31st March 2011.
- 3. If the model becomes a success then include other taluka and repeat the same process from 15th June 2011 to 31st December 2011.
- 4. Evaluation of the project, conducting research and recommending policy protocols from 1st January 2012 to 31st December 2012.

Indicators:

- 1. Percentage of Schools covered in a particular area.
- 2. Percentage of school children screened.
- 3. Percentage of school children with dental caries.
- 4. Percentage of school children treated for dental caries at field level.
- 5. Percentage of children having some health morbidity.
- 6. Percentage of children treated for morbidities other than dental at field level.
- 7. Percentage of children treated for morbidities at BKL Walawalkar Hospital.

Calculation of indicators:

1. Percentage of Schools covered in a particular area

= Number of Schools Screened/ Total no of schools X 100

2. Percentage of school children screened

= Number of school children screened/ Total no of children enrolled in school X100

3. Percentage of school children with dental caries

= No of children having dental caries/No of children screened X100

- 4. Percentage of school children treated for dental caries at field level
 = No of children treated for dental caries/ No of children having dental caries X100
- 5. Percentage of children having health morbidity other than dental caries
 = (Total Children having morbidity Children having dental caries)/ Total
 Children screened X 100
- 6. Percentage of children treated for morbidities other than dental at field level
 = Total children treated for morbidities other than dental at field level/ (Total Children having morbidity Children having dental caries) X 100
- 7. Percentage of children treated for morbidities at BKL Walawalkar Hospital
 = Total Children treated at Walawalkar Hospital/ Total children having morbidity X 100

Performance Indicators:

- 1. Percentage of Schools covered in a particular area = 100%
- 2. Percentage of school children screened = 90 %
- 3. Percentage of school children with dental caries = As per the findings
- 4. Percentage of school children treated for dental caries at field level = 80%
- 5. Percentage of children having some health morbidity = As per the findings
- 6. Percentage of children treated for morbidities other than dental at field level
 = 80%
- Percentage of children treated for morbidities at BKL Walawalkar Hospital
 = 20%

VISIT TO SCHOOLS FOR DENTAL SCREENING GIFTING TOOTH PASTE & BRUSH









Hematinic distribution Treatment of severe caries





International foreign students visit to schools





School Camp



Impact Of School Dental Health Project

	Over all	6yrs to10yrs	11 to 15 yrs
Total	7646	4778	2868
Caries before treatment	84.27%	89.38%	75.76%
Caries not found after treatment	62.54%	82.95%	43.20%
Six month follow up	2.61%	2.84%	2.23%

Analysis Of Treatment Given To The Children

	Over all	6yrs to10yrs	11yrs to 15yrs
Total	6444	4778	2173
%No. of	6390(99.16%)	4522(94.64%)	1868(65.13%)
children with			
loss of chewing			
ability			
Treated molars	4908(76.16%)	3798(83.98%)	1110(59.42%)
with GIC filling			
cement Improved			
chewing ability			
After six month	187(2.44%)	126(2.63%)	61(12.12%)
follow up for			
loss of chewing			
ability			

Methodology

Step 1:

Permission would be obtained from C.O Zilla Parishad, District Educational Officer, District Health Officer and Civil Surgeon.

Step 2: Once permission is obtained Block Educational Officer of Chiplun would be contacted and map of Chiplun Taluka, number and location of schools and number of school children would be obtained. Based on the data operational planning for the project would be done which would include the following:

- a. Time table for screening of school children of different schools.
- b. Logistics required for carrying out field activities.
- c. Planning of human resources including doctors, nurses and other staff.
- d. Setting up of referral mechanism to BKL Walawalkar Hospital for tertiary care.
- e. Monitoring and Evaluation methodology.

Step 3: Actual Screening of school children would include the following:

- a. Anthropometric measurements including age, weight, height, Head Circumference, Chest Circumference and Mid-arm circumference.
- b. General examination for Pallor, Icterus, Lymphadenopathy and any other obvious deformities/ malformation.
- c. Oral examination for dental hygiene and dental caries assessment including grading of caries tooth.
- d. Ear Nose and Throat (ENT) checkup.
- e. Systemic examination for CVS, CNS, RS and Abdominal System.

Step 4: Treatment

- a. Oral dental caries which can be treated at field level would be addressed.
- b. Other morbidities like nutritional deficiencies, minor problems like wax in ears would be treated at school level itself.

c. Children needing referral services would be referred to BKL Walawalkar Hospital by giving a health note to them which the children would have to give to their parents. The health note will mention the problem found out, which department to visit and when at BKL Walawalkar Hospital.

Step 5: Preventive measures

- a. Health education would be provided to children regarding oral dental hygiene and ill-effects of tobacco chewing/ meshri etc.
- b. A kit containing tooth brush and tooth paste would be given to children with actual demonstration of brushing of teeth.
- c. IEC (Information, Education and Communication) would be given regarding various health morbidities and how effectively to prevent them.

Step 6: Follow-up:

a. Sequential follow-up would be done every 3 months till 1 year to assess the progress of these children.

Step 7: Research

a. Data collected would be systematically analyzed to generate useful information which would then be forwarded to respective schools and government machinery.

Human Resource Planning

Sr	Name of the Doctor	Department
No		-
1.	Dr. Suvarna Patil	Medical Director
2.	Dr. Wadke	Community Health Department
3.	Dr. Konduskar	Dental Department
4.	Dr. Mankame	ENT Department
6.	Dr. Khedekar	Paediatric Department
7.	Sister In Charge and Nursing Staff	Community Health Department

The following doctors would be included in school health check-up

Logistic and Financial Planning

- 1. All the logistics required including dental equipment's, materials and stationary for arranging screening and treatment camp would be provide by BKL Walawalkar Hospital.
- 2. Basic treatment and would be provided by hospital free of cost.
- 3. Tertiary treatment at hospital would be charged according to hospital policy. This would be prior informed to the parents and if parents are ready then advanced treatment would be given.
- 4. If approved then institution can be recognized under Sarva- Shiksha Abhiyan and cost of advanced treatment can be paid by government through this scheme for needy children.
- 5. Collaboration would be established with companies manufacturing toothpaste etc. so as to ensure sustainability of the project.

Institutions involved

B.KL Walawalkar Rural Medical College and Hospital would implement the project in collaboration with educational and health department of government. Corporate companies would support it.

Overall Summary

School dental health project	2007-2021
No. Of ratnagiri zilla parishad school	996
Total beneficiares screened	39994
Total beneficiares referred for treatment	26407
Total beneficiares received treatment at bklw hospital	7646
Departments	Dental, pediatrics, psm

Year wise faculty and benefices

	Faculty	Interns	Beneficiaries
2022	5	2	1917
2021	5	4	204
2020	-	-	-
2019	4	-	399
2018	5	-	143
2017	5	-	337
2016	6	-	779
2015	6	-	1318

Year	Wise	Screening	Summary
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Year	Total School Covered For Screening	Total No Of Beneficiaries	Faculty
2022 Chiplun/ Sangmeshwar/ Guhagar/ Devrukh	45	1917	Dental- Dr. Sangeeta Wanjari, Dr.Dipak Patil, Dr.Pooja Jadhav, Dr.Ranjan Vikash Interns- Dr.Humera Hussain Clinal Psychologist –Swati Sonawane Staff- Geeta, Kashmira, Roshini , Sarika.
2021 Chiplun /Rajapur	4	204	Dental –Dr.Wanjari, Dr. Amruta, Dr. Deepak, Dr. Ranjan Peaditric – Dr. Radhika Interns- Dr. Sagar Salavi, Dr. Satish, Dr. Ishani, Dr.Piyush Clinical Psychologist – Rupali Chavan, Swati Sonawane Staff- Kanchan, Priya, Sarika, Sanjana, Roshini, Kashmira, Geeta, Akshita Sister - Pradnya
2019 Sangmeshwar	9	399	Dental – Dr. Modak, Dr. Deepak Peadiatric –Dr. Vinod Chowdhari, Dr. Rajnikant Latpate Staff -Kanchan
2018 Sangmeshwar	6	143	Dental – Dr.Modak, Dr. Deepak Peadiatric- Dr. Vinod Chowdhari, Dr. Sonawane, Dr. Pallavi Karande Staff -Kanchan
2017 Sangmeshwar	10	337	Dental -Dr. Modak, Dr. Patil Pediatrician – Dr. Vinod Chowdhari, Dr. Vikas Patil, Dr. Mohammad Ansari Staff– Roshini ,Sankita
2016 Sangmeshwar	33	779	Dental -Dr. Modak, Dr. Patil Dr. Kondejkar, Dr. Mugdha Pediatrician – Dr. Deshmukh Community – Dr. Rahul Chowpade Staff– Praneeta, Sharmila, Kalyani, Rashiak
2015 Chiplun Guhagar Sangmeshwar	37	1318	Dental-Dr.Modak,Dr.Patil,Dr.Kondejkar,Dr. Mugdha Pediatrician – Dr. Deshmukh Community – Dr.Rahul Chowpade Staff-Praneeta,Sharmila,Kalyani,Sonal, Varsha,Rashika

Year/Taluka	Total School	Total	Faculty
	Covered For	Beneficiaries	
	Treatment		
2019	8	240	Dental – Dr. Modak, Dr. Deepak
Sangmeshwar			Peadiatric- Dr. Vinod Chowdhari, Dr. Rajnikant
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2018			Staff - Kanchan
Sangmeshwar			Dental – Dr. Modak, Dr. Deepak Peadiatric - Dr. Vinod Chowdhari,
Sanginesitwai	8	172	Dr. Sonawane, Dr. Pallavi Karande
			Staff - Kanchan
2017			Dental – Dr. Modak, Dr. Deepak
Sangmeshwar	7	149	Peadiatric – Dr.Vinod Chowdhari ,Dr.Vikas
	/	147	Patil, Dr .Mohammad Ansari
			Staff - Roshini ,Sankita
2016			Dental –Dr. Modak, Dr. Deepak
Chiplun	14	238	Peadiatric –Dr.Deshmukh
Sangmeshwar			Community – Dr. Rahul Chowpade Staff - Roshini, Sunanda
2015			Dental-Dr.Mugdha, Dr . Khondajkar, Dr. Modak
Chiplun,		100	Peadiatric – Dr. Deshmukh
Guhagar	7	183	Community – Dr. Rahul Chowpade
&			Staff – Sonal , Varsha
Sangmeshwar			
Total	45	982	

# Year Wise Treatment Summary