

Restricted for the use by Surveyors of
SMILING BHARAT
NATIONAL ORTHODONTIC DIAGNOSTIC DRIVE



HANDBOOK
FOR I.O.S SURVEYORS/
I.O.S REPRESENTATIVES FOR
SMILING BHARAT 2.0
2025

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IMPORTANT LINKS

A. Website:

www.indianorthodonticsociety.org

B. Surveyor Registration Form for New Participants:

<https://forms.gle/pN2rkgEYNoFBDADW8>

For previous registrants, please check your email title
“Smiling Bharat Survey”
received from iosmalocclusionstudy@gmail.com

C. SMILING BHARAT Survey Application link:

<https://smilingbharat.com/>

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ABOUT SMILING BHARAT

SMILING BHARAT National Orthodontic Diagnostic Drive is a non-profit initiative by Indian Orthodontic Society. This is a comprehensive orthodontic survey, not just a malocclusion study.

By definition, survey is a form an examination of opinions, behaviour, etc., made by asking people questions. The sole motto of this survey is to present Orthodontic Health Data to the Government of India to emphasize the importance of our speciality as not just an ELECTIVE SPECIALITY but as an ESSENTIAL SPECIALITY in terms of gravity of health problems associated with malocclusion.

The Indian Orthodontic Society is the sole statutory body of Orthodontists in India and is registered with registrar of societies act, Vellore wide no. 75 of 1992. To present the grievances that our speciality is facing at this hour, it needs data. This National Orthodontic Diagnostic Drive is an IOS MEGA-CAMP for this data collection. The collected data will be screened by the head office and competent reports will be generated to present to the Government of India, like earlier done for National Oral Health Survey 2002-03.

INTRODUCTION

In India, malocclusion prevalence among school children ranges from 12.5% to 33.3%. Despite being the second most common dental disorder in India, more than half of the population is unaware of the benefits of orthodontic treatment, leading them to not seek assistance. The orthodontists across the world unanimously recognize the significance of early screening of malocclusion due to its correlation with the onset of periodontitis, dental caries, TMJ disorders, and trauma.

The currently available data on incidence and prevalence of malocclusion in India is inadequate. An estimation of prevalence of malocclusion, at the National level, should replace the siloed approach of region wise and state wise approach.

AIM & OBJECTIVES

National Orthodontic Diagnostic Drive aims to have regional, state-wise and national data and documentation of orthodontic health data in children, adolescents and young adult populations of India using appropriate orthodontic diagnostic measures.

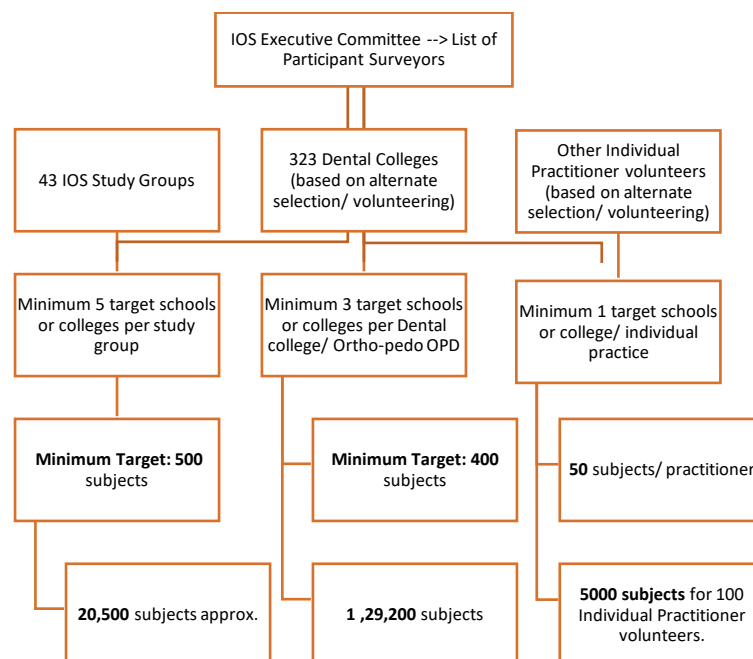
The specific objectives of this outreach activity are to

1. To collate data collected from the survey for the documentation of prevalence, distribution and severity of malocclusion across the nation.
2. To reach out maximum households through school children and young adults for diagnosis of malocclusion & associated health issues
3. To create awareness about Orthodontics as specialization of Dentistry, and associated benefits.

METHODS

Study Design: The survey will be a Cross- Sectional Realtime Survey. No retrospective records will be included.

SAMPLE SIZE & DISTRIBUTION:



Numbers of surveys done in 2024: 40,000 approx.

Target to achieve till 1st May 2025: 1,20,000

SELECTION OF SAMPLE: The sample will be selected from neighbourhood target schools/ teaching institutions as well as undergraduate of any college/ university by the selected dental colleges/ study group.

Selection of participants from the target schools based on the underlying criteria.

Inclusion criteria

- a) Children, adolescents and young adults, **subject age up till 24 years.**
- b) Equal number of males and females in the sample.
- c) The field teams to prefer enrol students from co-education schools/ teaching institutions for the same.
- d) Students randomly selected by school teachers/ principal by chit system per school/ college/ university.

Exclusion criteria .

- a) History of Previous/ ongoing Orthodontic treatment
- b) Patient not willing give consent

All selected subjects will be given an information sheet and physical informed consent form for the survey. Subjects who give their written consent for participation will be enrolled for the survey. **(see Annexures)** For children and adolescents less than 18 years of ages, informed consent will be taken from the parents/ guardians.

SURVEY TOOL

A digital dental app has been developed on the user platform <https>. The application can be used on mobile/ tablets to upload case history, orthodontic diagnosis & subject photographs, by the surveyors. All surveyors will be given this user manual and online training for the use of the mobile application.

The survey is based on STEPS approach by WHO for Oral Health Surveys.

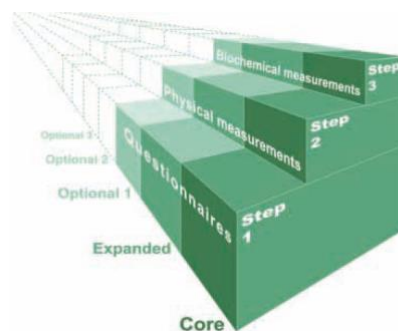


Fig 1: WHO step-wise approach to chronic disease surveillance¹

The steps include:

1. **Informed Consent:** To be taken in English/ Hindi/ Regional languages. One copy of physical consent to be maintained by the surveyor, one copy to the patient & IOS copy be uploaded as photograph in the last question of the survey.
2. **Questionnaire:** Includes demographics details, general history taking and questions based on knowledge, attitude and practices towards oral & orthodontic healthcare.
3. **Clinical Examination:** Includes general, extra-oral and inter-oral examination.
4. **Photographic Records:** Includes a set of 3 extra-oral and 5 intra-oral orthodontic photographs.

The survey form has been validated amongst the executive committee with prior test runs. All suggested amendments have been incorporated before the orientation and dry run other IOS members.

TRAINING & CALIBERATION: Orientation programmes have been conducted by the IOS executive committee regarding awareness and utilization of the app for the survey. Those willing to participate as surveyors will have to fill the surveyor registration form (also available on the website). IOS members enrolling themselves as surveyors before 29th June have been given links for dry run for training purposes prior to the initiation of the Mega-camp on 1st July. Those registering from 1st July onwards will be guided by the technical support team to do the survey.

DATA ANALYSIS: All real-time data will be collected using the mobile application and will be uploaded directly to the AWS server space of the Indian Orthodontic Society. Considering the DPDP act, 2023, data privacy of the patient will be maintained at IOS server space with data encryption & no intermediate storage channels/ uploading from reservoir photographs permitted. Data sharing will be done only to researchers for the projects approved by IOS after a thorough screening of the data required for that project and the signing of the MOU between the competent authorities and IOS.

ORGANISATIONAL STRUCTURE OF THE SMILING BHARAT 2.0



SURVEY TEMPLATE

STEP 1: CONSENT & Demographics

1. Examination date*
2. Informed Consent*
3. College or Study Group Code or IOS Membership Number of Surveyor*
4. State Union Territory*
5. Name of subject* (initials only)
6. Parents mobile number*
7. Parent initials*
8. Area of residence*
9. Area pin code*
10. District*
11. Name of School or Dental College or Hospital for Checkup*
12. Date of birth*
13. Age*
14. Gender*
15. Informer*

STEP 2: Questionnaire (Clinical History & Knowledge, attitude and perception towards oral/orthodontic health care)

1. Childhood disease*
2. Diet*
3. Frequency consumption of junk food*
4. History of visit to dentist*
5. History of dental treatment*
6. History of visit to orthodontist*
7. Awareness about orthodontic treatment*
8. History of orthodontic treatment*
9. What does orthodontic treatment does?*
10. Social Media Interactions*
11. Daily brushing habits*
12. Dental accessories*
13. Braces correct both teeth and jaw irregularities*
14. Orthodontic treatment takes a long time more than 2 years*
15. Orthodontic treatment can be done at any age*
16. Leaving treatment incomplete will worsen the problem*
17. When you wear braces you need to adjust dietary habits*
18. scared of having braces*
19. People wearing braces do not look good*
20. Braces always need removal of a few teeth*
21. Braces are painful*
22. Orthodontic treatment is expensive*
23. Awareness of Different Modalities of Orthodontic Treatment*
24. What do you think is the right age for Braces*
25. Smile satisfaction*

STEP 3: Clinical Examination

A: General Examination

1. Signs of pubertal growth spurt*
2. Craniofacial deformity*
3. Habits*
4. Sleeping Habits* (Snoring/ Daytime Sleepiness/ difficulty in falling asleep (or staying awake/ tiredness)
5. Speech* (Normal/ Difficulty in speaking sibilants/ Linguo-alveolar stops/ Labiodental fricatives/ lingual dental fricatives)
6. Jaw opening*

7. Path of closure of TMJ*

B: Extra-oral Examination

1. Inter jaw alignment*
2. Facial profile*
3. Facial symmetry*
4. Facial form*
5. Nasolabial angle*
6. Lip competence*
7. Mentolabial sulcus*

C: Intra-oral Examination

1. Dentition*
2. Carious teeth*
3. Missing teeth or impacted teeth*
4. Intra arch alignment maxilla*
5. Intra arch alignment mandible*
6. Inter arch molar relation Right & Left Side*
7. Canine relation Right & Left Side*
8. Overbite*
9. Overjet*
10. Crossbite*
11. Scissor bite*
12. Dental Midline*

STEP 4: Clinical Orthodontic Photographs

1. Extra-oral Front view*
2. Extra-oral Front with smile*
3. Extra-oral Profile*
4. Intra-Oral Front view*
5. Intra-Oral Right Buccal view*
6. Intra-Oral Left Buccal view*
7. Intra-Oral Maxillary Occlusal View*
8. Intra-Oral Mandibular Occlusal View*

** All mandatory fields*

PS:

- *Consent form photograph is mandatory to upload just prior to final submission of the form.*
- *Upon submission of the form, a **form submission number** will be displayed on the screen. Please note this number on the physical copy of the consent form with the surveyor/ institution for future reference if required.*

SMILING BHARAT 2.0 SURVEYOR ASSISTANCE ANNEXURES

Smiling Bharat 2.0 Vision & Mission

https://drive.google.com/file/d/1_rAYw8OcW9qnujlbRoVMR--zKl1EDFFz/view?usp=sharing

Letter to Principals of Participating Colleges/ HODs

https://drive.google.com/file/d/1_rAYw8OcW9qnujlbRoVMR--zKl1EDFFz/view?usp=sharing

Letter to Principals Schools

https://drive.google.com/file/d/1_rAYw8OcW9qnujlbRoVMR--zKl1EDFFz/view?usp=drive_link

Consent Forms- English & Hindi

https://drive.google.com/file/d/16m0DQl7rMsZwaBnbPHtvHwiWdX3DJZV/view?usp=drive_link

Smiling Bharat Banners and logo

https://drive.google.com/drive/folders/1AFwfmC2Cn9_Ac2UqkaSGCY-GsNQa7vKz?usp=drive_link

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