



Ministry of Electronics and  
Information Technology  
Government of India



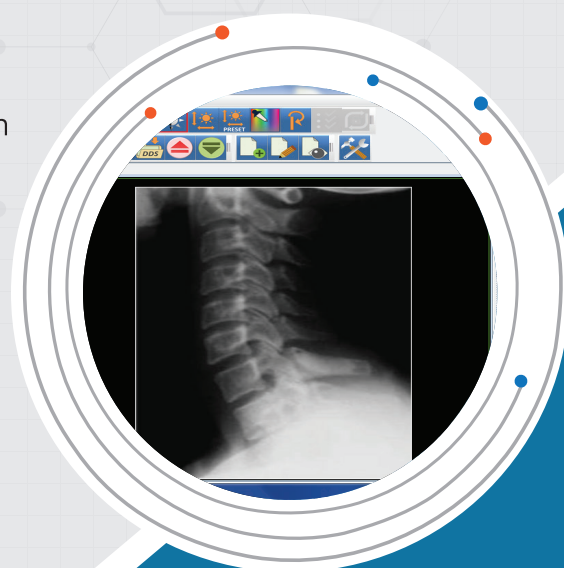
## CollabDDS Collaborative Digital Diagnosis System

Provides an integrated online environment to visualise medical and dental images for diagnosis and treatment planning

Bridging the divide between Rural and Urban Health – Towards inclusive Society

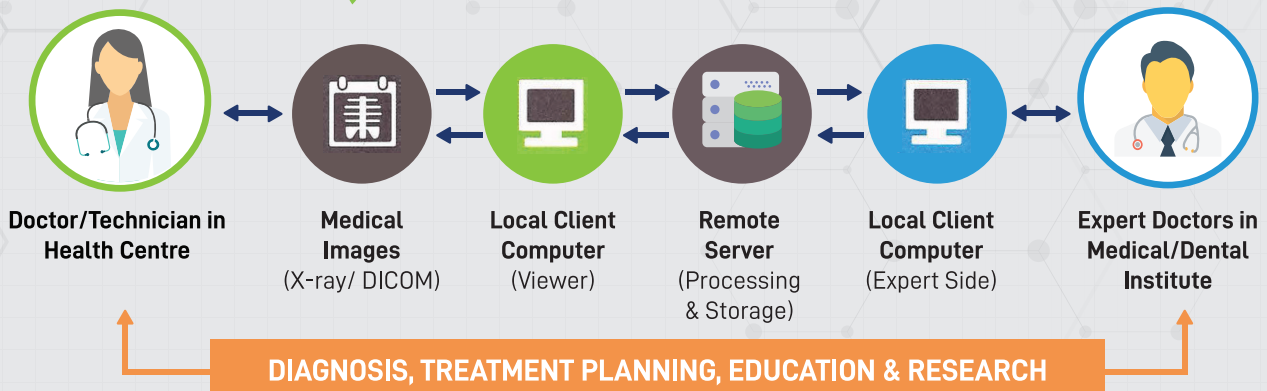
### Advantages

- ⚙️ Efficient Digital Workflow of X-Ray Imaging
- ⚙️ Improved Diagnosis and Treatment by Collaborative Consultation
- ⚙️ Enhancement of Quality of Medical Services
- ⚙️ Real Time Diagnosis environment as a teaching platform



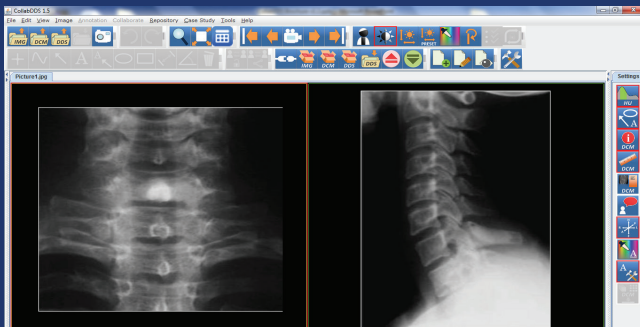
[www.collabdds.gov.in](http://www.collabdds.gov.in)

# Collaborative Digital Diagnosis System



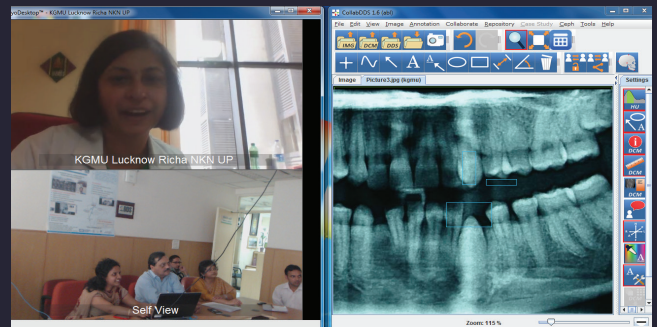
## Features

### Visualization



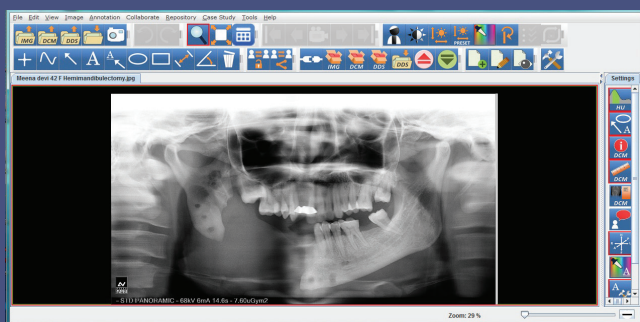
- ✧ X-Ray images: Multiple formats supported (JPEG/GIF/TIFF/WBMP/BMP/PNG)
- ✧ DICOM images (CBCT, CT Scans and MRI data)
- ✧ DICOM Single, Multiple, Series and Multiframe
- ✧ Multi-Planar Reformat (MPR)
- ✧ Multi Screen Layouts

### Collaboration and Repository



- ✧ Real-time Sharing and Annotation
- ✧ Recordable Review Comments
- ✧ Audio and Video Communication
- ✧ Integrated Centralized Repository of Cases and Teaching Files
- ✧ Access and Security Control for Repository

### Image Manipulation



- ✧ Brightness, Contrast, Sharpness, Inverse, Coloring
- ✧ Zoom, Pan, Rotate, Flip, Undo, Redo
- ✧ Window level Manipulation & Presets
- ✧ Image Capture
- ✧ Cine Mode

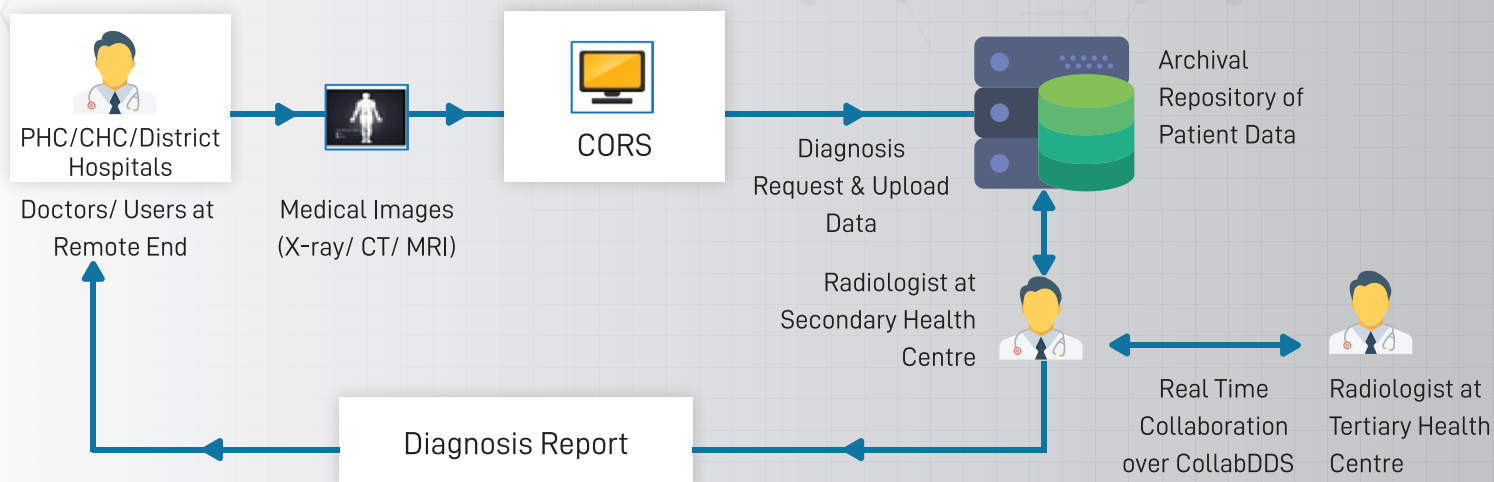
### Additional Features



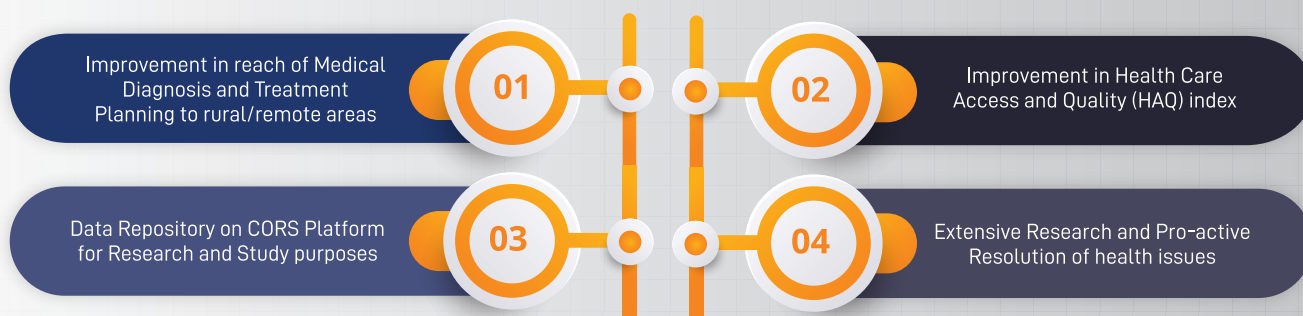
- ✧ Integrated Cephalometric Analysis
- ✧ Clinical Case Studies framework
- ✧ Measurements: Distance, Angle
- ✧ Accessible Repository of Case Studies
- ✧ Anonymized Data

# CollabDDS Online Radiological Services (CORS)

- ⚙️ Advanced Teleradiology Solution
- ⚙️ Web interface for different health communities
- ⚙️ Supports resolution of Radiological & Dental health problems
- ⚙️ Users at Primary and Secondary Health Centres / District Hospitals can obtain expert Radiological advice



## Benefits



## Implementations of CollabDDS

- ⚙️ Department of Radio-Diagnosis, All India Institute Of Medical Sciences (AIIMS) New Delhi
- ⚙️ Andhra Medical College and King George Hospital, Visakhapatnam
- ⚙️ King George's Medical University, Lucknow
- ⚙️ Sawai Man Singh Medical College, Jaipur
- ⚙️ Sarojini Naidu Medical College, Agra
- ⚙️ Centre for Dental Education and Research, AIIMS, New Delhi
- ⚙️ Government Dental College and Hospital, Ahmedabad
- ⚙️ Government Dental College, Goa

## CollabDDS on National Medical College Network (NMCN)

- ⚙️ CORS Centre of Excellence(CoE) at Tertiary Centre
- ⚙️ Twenty Primary/Secondary Centres connected to each CoE

# Testimonials

“

We have discussed around 40-50 cases & these are of all types. CollabDDS provides us real time image sharing with image annotations which is very helpful for the user & I found it user friendly. By collaborative sessions, we can have a wide range of discussions reach a common agreement. It also helps on other aspects of our diagnosis, enables us to have a precise conclusion which is helpful for the patients as they have opinion of superior centre at their local place.

”

- Dr. S.K. Agrawal

*Professor & Head Department Of Radiodiagnosis,  
SMS Medical College, Jaipur*

“

We had successfully discussed and exchanged information regarding one clinical case scenario related to 'Eruption failure', it's clinical and radiographical presentation, provisional diagnosis, and possible lines of treatment with eminent experts from AIIMS, New Delhi. The discussion helped in identifying alternative management techniques for the case presented. The positive aspect was that there was exchange of information with direct communication through videoconferencing. The transfer of information to both sides was smooth.

”

- Dr. Richa Khanna

*Asst. Prof, Dept of Pedodontics & Dr. Saumyendra Singh, Asst.Prof, Dept of Prosthodontics on having a Collaborative session with KGMU, Lucknow*

“

CollabDDS allows us to interact with best teachers of India. It gives us the chance to discuss about the rare cases and rare presentation of unusual cases. CollabDDS discussion is highly beneficial for us." -

**No of sessions: 8, No of cases discussed: 19**

”

- Dr. Anit Parihar

*Co-ordinator CollabDDS (Radiology node)  
The King George Medical University , Lucknow*

“

Discussion between radiologists of two centres was rewarding as both sides were able to exchange their views especially in relation to patient profile of their centres. Diagnostic benefits were also appreciated in this regards where at least in 3 cases prioritization of differential diagnosis was altered.

**No of sessions: 8, No of cases discussed: 19**

”

- Dr. Shamrendra Narayan

*Asst. Professor & Head Department of Radiodiagnosis,  
SNMC, Agra*

## About NIC

National Informatics Centre (NIC) was established in 1976, and has since emerged as a "prime builder" of e-Government/e-Governance applications up to the grass roots level as well as a promoter of digital opportunities for sustainable development. NIC, through its ICT Network, "NICNET", has institutional linkages with all the Ministries/Departments of the Central Government, 36 State Governments/ Union Territories, and about 708 District administrations of India.

NIC has been instrumental in steering e-Government/ e-Governance applications in Government Ministries/Departments at the Centre, States, Districts and Blocks, facilitating improvement in Government services, wider transparency, promoting decentralized planning and management, resulting in better efficiency and accountability to the people of India.

### CollabDDS Group

011-2435159, 24305155

collabdds@nic.in

National Informatics Centre

A-Block, CGO Complex, Lodhi Road

New Delhi - 110 003

India

### PRODUCT BUSINESS DIVISION

National Informatics Centre Services Inc.

NBCC Tower, 15 Bhikaji Cama Place

New Delhi - 110066

<http://www.nicsi.com/pbd>

[pbddiv-nicsi@nic.in](mailto:pbddiv-nicsi@nic.in)

011-22900533

