

# User Manual for CollabDDS Online Radiological Services (CORS)

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Radiologists at RRC

National Informatics Centre

Ministry of Electronics and Information Technology | Government of India

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# Document Revision History Table

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## High Level Workflow in CORS

**Scenario 1:** Each End user (District Hospital/CHC/PHC) would be mapped to corresponding RRCs. End User needs to upload cases and it will be automatically assigned to corresponding RRC. The radiologist at RRC would review the diagnosis and upload report for the case.

**Scenario 2:** If Radiologist at RRC wants to discuss some complex case with the Radiologist at NRC, then he/she can forward the case to NRC for further collaborative discussion using CollabDDS. The Radiologist would then generate/upload the report for the case which is available to end user.

**Scenario 3:** Escalation of cases by PMU from RRC to NRC in case there is an overload of cases or Radiologist is on leave.

## Instructions to Radiologists at RRC

Radiologists are the reviewers from RRC of NMCN list of colleges. Cases from attached DH/CHC/PHC will be automatically assigned to them. They will review the cases and generate the report accordingly. They have the option of either directly generating the diagnosis report for sending to end user or can collaborate with Radiologist at NRC for real time diagnosis on the shared patient data. Radiologist user credentials are created by PMU. The username along with a password set link is mailed to their respective mail-IDs. User needs to create his/her password using this link.

**Logging into CORS** – Radiologists need to enter username and password. The Captcha is also to be entered. This Captcha is case sensitive.



The screenshot shows a login form with the following elements:

- Username input field
- Password input field
- Captcha image showing the text 'mep6p'
- Captcha input field
- Refresh Image button with a circular arrow icon
- Login button
- Forgot Password? link

**Home Page** – After logging in, Dashboard will appear which gives a count of all type of cases registered with his account.



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*Figure 2: Dashboard*

**Cases Menu** – This menu will list the cases which are pending for Review. There can be three lists:-

1. Cases Assigned by End User
2. Cases for Real Time Collaboration with NRC
3. Cases Escalated to NRC by PMU



Home **Cases** Archive Profile Logout

Postgraduate Chandigarh RRC [ Radiologist ]

Cases Assigned

Show 5 entries [Excel](#) Search:

Case ID	Requesting Hospital	Requesting Doctor	Requested Date	Status	Review	NRC
CASE00006	Dr Rajendra Prasad Medical College	Dr Rajendra Prasad User	04-05-2018	Pending		<a href="#">Forward</a>
CASE00007	Dr Rajendra Prasad Medical College	Dr Rajendra Prasad User	04-05-2018	Pending		<a href="#">Forward</a>

Showing 1 to 2 of 2 entries Previous  Next

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Cases For Real Time Collaboration

Show 5 entries [Excel](#) Search:

Case ID	Reviewing Doctor	Requested Date	Forwarded Date	Session Date	Request Status	Forwarded Status	Review	NRC
E00003	Sanjay Gandhi User	02-05-2018	02-05-2018	05-05-2018 (09:15 - 10:00 )	Pending	Complete		<a href="#">View</a>

Showing 1 to 1 of 1 entries Previous  Next

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Cases Escalated to NRC

Show 5 entries [Excel](#) Search:

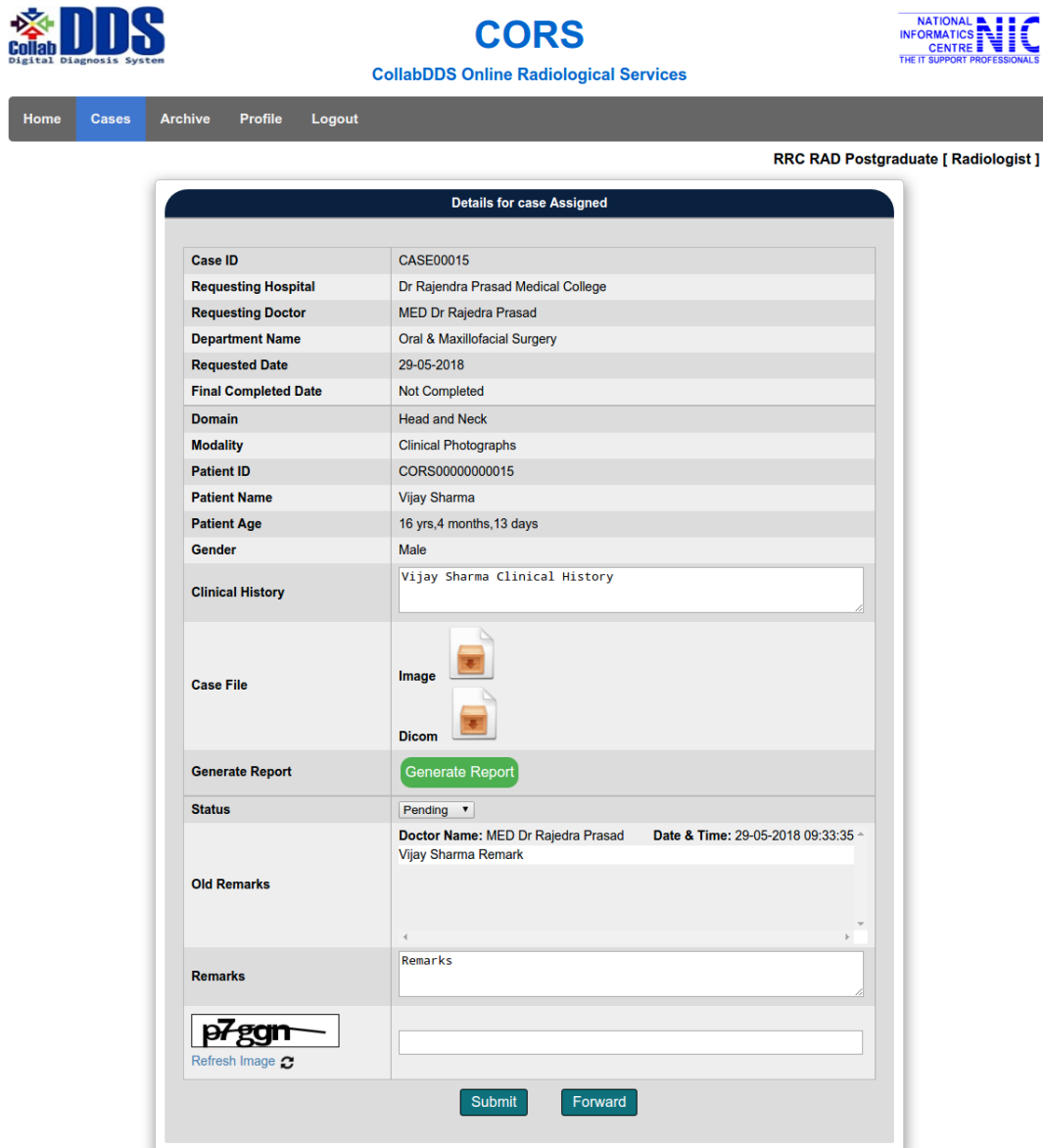
Case ID	Requesting Hospital	Requested Date	Escalation Date	Status	View
CASE00005	Dr Rajendra Prasad Medical College	02-05-2018	02-05-2018	Pending	<a href="#">View</a>




Showing 1 to 1 of 1 entries Previous  Next

*Figure 3: Case Listing*

## Steps for diagnosis without forwarding the case

**Step I** For reviewing a particular case, Radiologist has to click on “**Review**” icon against that case. Radiologist can see the case details along with the images/DICOM for that case.

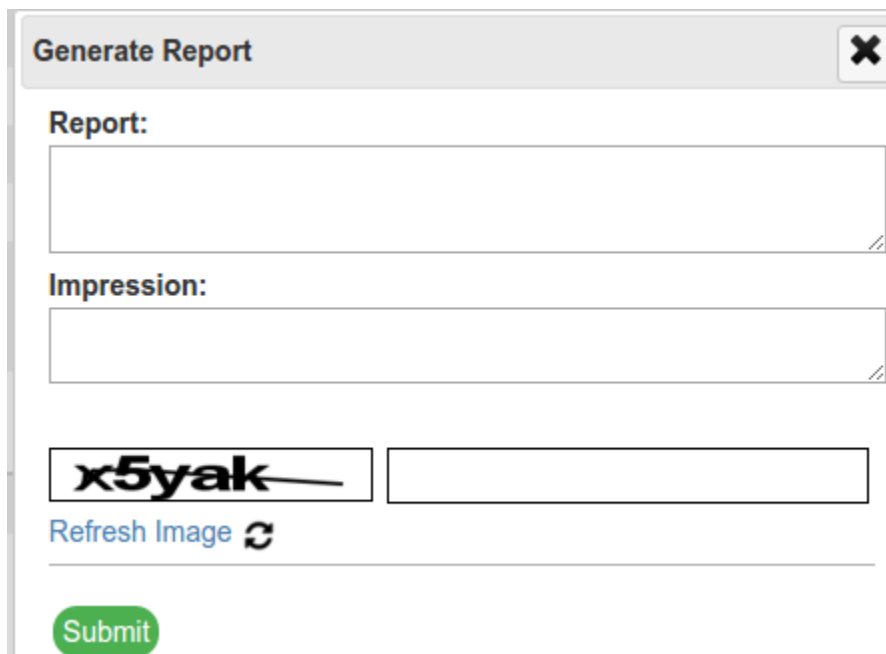


Details for case Assigned	
Case ID	CASE00015
Requesting Hospital	Dr Rajendra Prasad Medical College
Requesting Doctor	MED Dr Rajendra Prasad
Department Name	Oral & Maxillofacial Surgery
Requested Date	29-05-2018
Final Completed Date	Not Completed
Domain	Head and Neck
Modality	Clinical Photographs
Patient ID	CORS00000000015
Patient Name	Vijay Sharma
Patient Age	16 yrs,4 months,13 days
Gender	Male
Clinical History	Vijay Sharma Clinical History
Case File	Image  Dicom 
Generate Report	<a href="#">Generate Report</a>
Status	Pending
Old Remarks	Doctor Name: MED Dr Rajendra Prasad    Date & Time: 29-05-2018 09:33:35 - Vijay Sharma Remark
Remarks	Remarks  <a href="#">Refresh Image</a>
<a href="#">Submit</a> <a href="#">Forward</a>	

*Figure 4: Case Details for Reviewing*



**Step II** On clicking the “**Generate Report**” button, dialog box appears. Radiologist can add report details and impression and click on submit to proceed.



The screenshot shows a dialog box titled "Generate Report" with a close button (X) in the top right corner. Inside the dialog, there are two text input fields: "Report:" and "Impression:". Below these fields is an image placeholder showing the text "x5yak" and a "Refresh Image" button with a circular arrow icon. At the bottom of the dialog is a green "Submit" button.

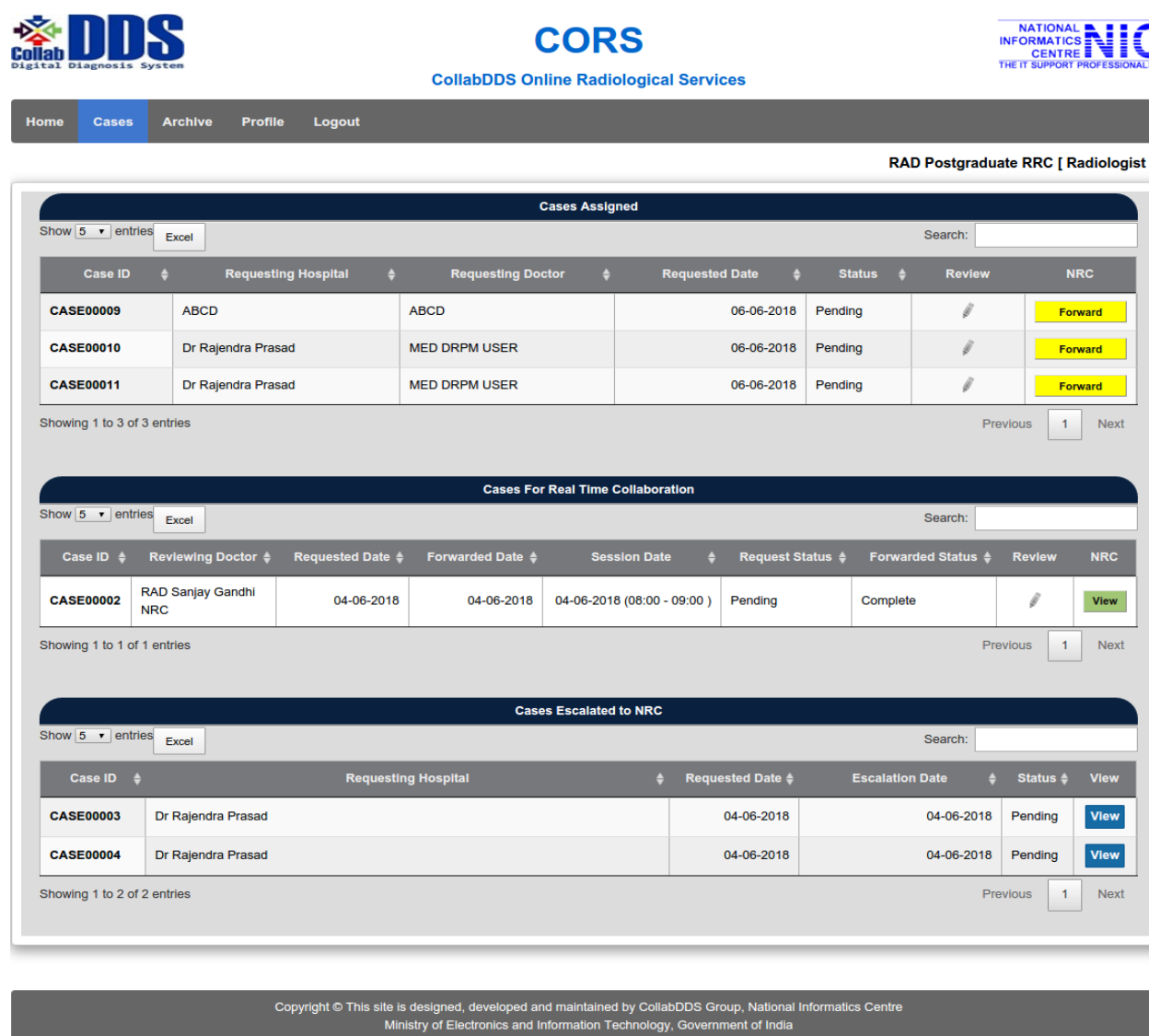
*Figure 5: Generate Report*

**Step III** In case the diagnosis is completed, then radiologist needs to change the status to “Complete” and insert remarks to send the diagnosis report to the end user.

## Steps for diagnosis by forwarding the case

If case needs to be discussed with another radiologist at NRC, then radiologist can forward the same case to NRC by providing session Date and Time for Real Time Collaboration.

**Step I** Radiologist can forward a particular case to NRC by clicking on forward icon in Cases Assigned list.



The screenshot displays the CORS web application interface for a Radiologist. The top navigation bar includes 'Home', 'Cases', 'Archive', 'Profile', and 'Logout'. The user is logged in as 'RAD Postgraduate RRC [ Radiologist ]'. The main content area is divided into three sections:

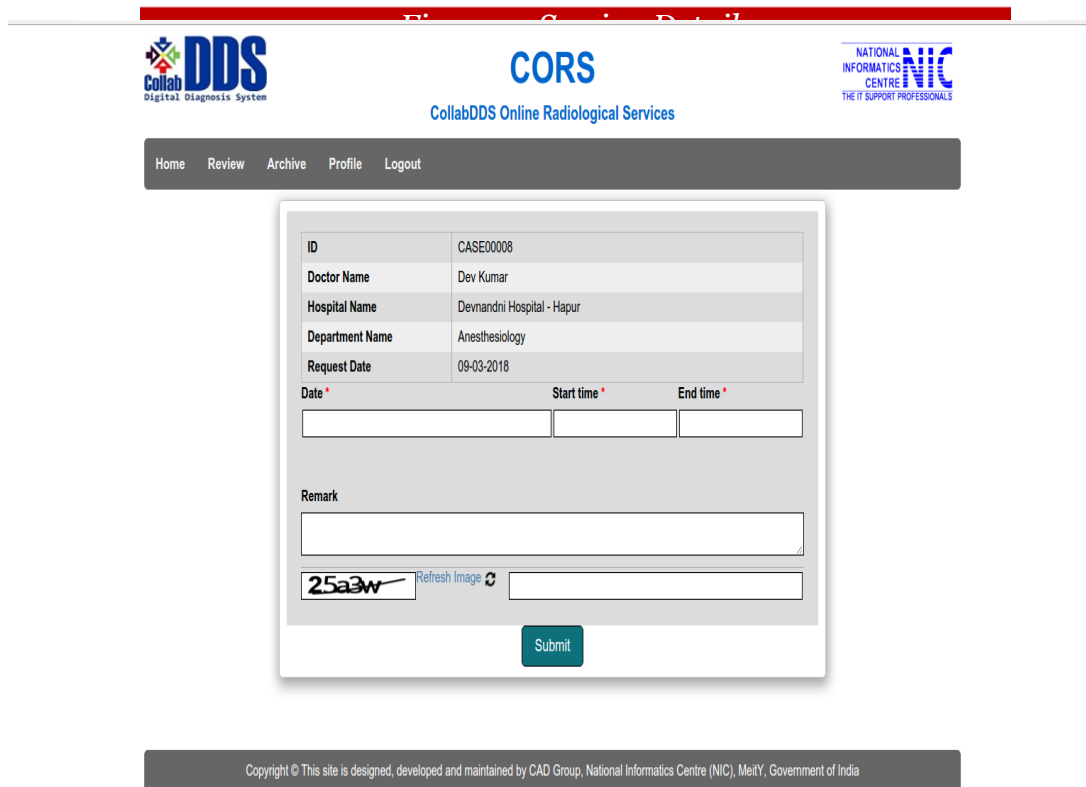
- Cases Assigned:** A table with columns: Case ID, Requesting Hospital, Requesting Doctor, Requested Date, Status, Review, and NRC. It lists three cases (CASE00009, CASE00010, CASE00011) with 'Forward' buttons in the NRC column.
- Cases For Real Time Collaboration:** A table with columns: Case ID, Reviewing Doctor, Requested Date, Forwarded Date, Session Date, Request Status, Forwarded Status, Review, and NRC. It lists one case (CASE00002) with a 'View' button in the NRC column.
- Cases Escalated to NRC:** A table with columns: Case ID, Requesting Hospital, Requested Date, Escalation Date, Status, and View. It lists two cases (CASE00003, CASE00004) with 'View' buttons in the View column.

Each table includes a search bar, a 'Show 5 entries' dropdown, and an 'Excel' button. Navigation controls like 'Previous', '1', and 'Next' are present at the bottom of each table.

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Figure 6: Screen for forwarding the case

**Step II** On clicking “**Forward**” button, case is forwarded to radiologist at NRC. Radiologist needs to enter Date and Time to schedule a session with NRC for Real Time Collaboration. Once the case is forwarded to NRC, it will move to the list of Cases for Real Time Collaboration with a “Collaborate” button.



The screenshot displays the CORS web application interface. At the top, there are logos for Collab DDS (Digital Diagnosis System), CORS (CollabDDS Online Radiological Services), and the National Informatics Centre (NIC). Below the logos is a navigation menu with links for Home, Review, Archive, Profile, and Logout. The main content area shows a form for a case with the following details:

ID	CASE00008
Doctor Name	Dev Kumar
Hospital Name	Devnandni Hospital - Hapur
Department Name	Anesthesiology
Request Date	09-03-2018

Below the table, there are input fields for Date, Start time, and End time, each with an asterisk indicating it is a required field. A Remark field is also present. At the bottom of the form, there is a CAPTCHA image showing the text "25a3w" and a Refresh Image button. A Submit button is located at the bottom center of the form.

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# User Manual for CORS - RRC Radiologists



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Home **Cases** Archive Profile Logout

RAD Postgraduate RRC [ Radiologist ]

Cases Assigned

Show 5 entries Excel Search:

Case ID	Requesting Hospital	Requesting Doctor	Requested Date	Status	Review	NRC
CASE00010	Dr Rajendra Prasad	MED DRPM USER	06-06-2018	Pending		<a href="#" style="background-color: yellow; padding: 2px;">Forward</a>
CASE00011	Dr Rajendra Prasad	MED DRPM USER	06-06-2018	Pending		<a href="#" style="background-color: yellow; padding: 2px;">Forward</a>

Showing 1 to 2 of 2 entries Previous 1 Next

---

Cases For Real Time Collaboration

Show 5 entries Excel Search:

Case ID	Reviewing Doctor	Requested Date	Forwarded Date	Session Date	Request Status	Forwarded Status	Review	NRC
CASE00002	RAD Sanjay Gandhi NRC	04-06-2018	04-06-2018	04-06-2018 (08:00 - 09:00 )	Pending	Complete		<a href="#" style="background-color: #27ae60; color: white; padding: 2px;">View</a>
CASE00009	RAD Sanjay Gandhi NRC	06-06-2018	11-07-2018	11-07-2018 (08:00 - 09:00 )	Pending	Pending		<a href="#" style="background-color: #27ae60; color: white; padding: 2px;">Collaborate</a>

Showing 1 to 2 of 2 entries Previous 1 Next

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Cases Escalated to NRC

Show 5 entries Excel Search:

Case ID	Requesting Hospital	Requested Date	Escalation Date	Status	View
CASE00003	Dr Rajendra Prasad	04-06-2018	04-06-2018	Pending	<a href="#" style="background-color: #2980b9; color: white; padding: 2px;">View</a>
CASE00004	Dr Rajendra Prasad	04-06-2018	04-06-2018	Pending	<a href="#" style="background-color: #2980b9; color: white; padding: 2px;">View</a>

Showing 1 to 2 of 2 entries Previous 1 Next

Figure 8: Updated Case List after Forwarding the Case

## User Manual for CORS - RRC Radiologists

**Step III** Radiologist at RRC can reschedule the session as per the Remarks from NRC.



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Home Cases Archive Profile Logout



Postgraduate Chandigarh RRC [ Radiologist ]

**Auto Case Forward**

Case ID	CASE00006
Requested Doctor	Dr Rajendra Prasad User
Requested Hospital	Dr Rajendra Prasad Medical College
Department Name	Conservative Dentistry & Endodontics
Requested Date	04-05-2018

Date *	Start time *	End time *
<input type="text" value="05-05-2018"/>	<input type="text" value="09.00"/>	<input type="text" value="10.00"/>

Remark

 Refresh Image 

*Figure 9: Rescheduling Session*

**Step IV** After a forwarded case is discussed using real time collaboration, Radiologist at NRC will give his/her diagnosis in “Remarks” section and change the case status to complete. Radiologist at RRC can see the diagnosis of that particular case given by NRC using “View” button against that case.



Home Cases Archive Profile Logout

Postgraduate Chandigarh RRC [ Radiologist ]

ID	CASE00003
Requesting Hospital	Dr Rajendra Prasad Medical College
Requesting Doctor	Dr Rajendra Prasad User
Department Name	Conservative Dentistry & Endodontics
Requested Date	02-05-2018
Forwarded Date	02-05-2018
Session Date	05-05-2018 (09:15 - 10:00 )
Completion Date by Reviewer	03-05-2018
Final Completed Date	03-05-2018
Old Remarks:	<p>Doctor Name: Sanjay Gandhi User Date &amp; Time: 02-05-2018 16:31:43 Your case003 is completed</p> <p>Doctor Name: Postgraduate Chandigarh RRC Date &amp; Time: 02-05-2018 16:03:38</p> <p>fgfgfg</p>


*Figure 10: View case after Real Time Collaboration*

**Step V** After the case is completed by NRC, Radiologist can click on the “Review” icon against that case and generate the diagnosis report. He needs to change the status to “Complete” and insert remarks to send the diagnosis report to the end user.



**Details of Case For Real Time Collaboration**

Case ID	CASE00002
Requesting Hospital	Dr Rajendra Prasad
Requesting Doctor	MED DRPM USER
Department Name	Anesthesiology
Requested Date	04-06-2018
Forwarded Date	04-06-2018
Session Date	04-06-2018 08:00 - 09:00
Reviewing Hospital	Sanjay Gandhi Lucknow
Reviewing Doctor	RAD Sanjay Gandhi NRC
Reviewer Status	Complete
Final Completed Date	Not Completed
Domain	Extremities
Modality	Clinical Photographs
Patient ID	CORS0000000004
Patient Name	Ramesh
Patient Age	8 Years, 5 Months, 1 Days
Gender	Male
Clinical History	<input type="text" value="ramesh"/>
Generate Report	<input type="button" value="Generate Report"/>
Status	<input type="text" value="Pending"/> <input type="button" value="Generate Report"/>
Old Remarks	<p><b>Doctor Name:</b> RAD Postgraduate RRC    <b>Date &amp; Time:</b> 05-06-2018 11:35:59 ~ ali</p> <p><b>Doctor Name:</b> MED DRPM USER    <b>Date &amp; Time:</b> 04-06-2018 12:06:24 ramesh</p>
Remarks	<input type="text" value="Remarks"/>



Refresh Image

Required Field

*Figure 11: Final Diagnosis*

## Steps for viewing Archived/Completed cases

**Step I** Radiologist can view list of archived or completed reviewed cases by clicking on “Archive” Menu. Radiologist can see the case details by clicking on “View” button against that case. He/she can download the images/DICOM for that case. Diagnosis Report can also be viewed/download.




Home Cases **Archive** Profile Logout

Postgraduate Chandigarh RRC [ Radiologist ]

Cases Assigned

Show 5 entries Excel Search:

Case ID	Requesting Hospital	Requested Date	Completed Date	Report	View
CASE00007	Dr Rajendra Prasad Medical College	04-05-2018	04-05-2018		<a href="#">View</a>
CASE00008	Dr Rajendra Prasad Medical College	04-05-2018	04-05-2018		<a href="#">View</a>

Showing 1 to 2 of 2 entries Previous 1 Next

Cases for Real time Collaboration

Show 5 entries Excel Search:

Case ID	Requesting Hospital	Reviewing Doctor	Requested Date	Forwarded Date	Session Date	Completed Date	Report	View
CASE00004	Dr Rajendra Prasad Medical College	Sanjay Gandhi User	02-05-2018	02-05-2018	08-05-2018 (08:00 - 08:45 )	02-05-2018		<a href="#">View</a>

Showing 1 to 1 of 1 entries Previous 1 Next

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*Figure 12: Archived Cases*



## Steps for managing profile and logging out from CORS

**Step I** Radiologist can manage his/her profile details by clicking on “Edit” button in the Profile menu.



Home Cases Archive **Profile** Logout

Postgraduate Chandigarh RRC [ Radiologist ]

[Change Password](#)

Personal Details	
Title	Dr
Short name	PGIMER
Full name	Postgraduate Chandigarh RRC
Landline number	0120369874

Professional Details	
Hospital name	Postgraduate Chandigarh
Department name	Oral & Maxillofacial Surgery
Designation name	Senior Resident

Login Details	
User name	radpgimer

[Edit](#)

Contact Details	
Email	maxxxxxxii@nic.in
Mobile number	99xxxxxx99

[Edit](#)

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*Figure 13: Edit Profile*

**Step II** On clicking “**Change Password**” link, radiologist can also change the password.

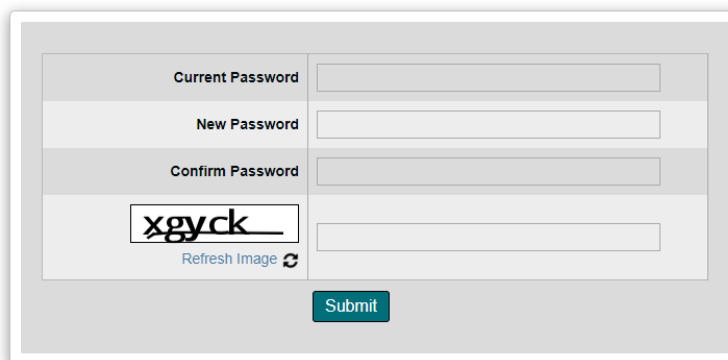


**CORS**

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Sanjay Gandhi User [ Radiologist ]



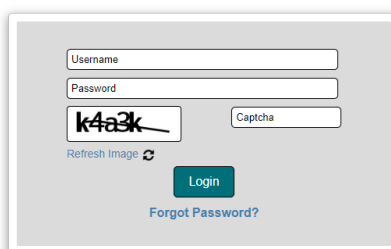
The screenshot shows a web form for changing a password. It contains four input fields: 'Current Password', 'New Password', 'Confirm Password', and a CAPTCHA field. The CAPTCHA field contains the text 'xgyck' and a 'Refresh Image' link with a circular arrow icon. A 'Submit' button is located at the bottom of the form.

*Figure 14: Change Password*

**Step III** Radiologists can logout from CORS on clicking “Logout” option from the Menu bar.

## Instructions to Reset Password

**Step I** If user forgets password then he/she can regenerate the password by clicking on “Forget Password” Link on login page.

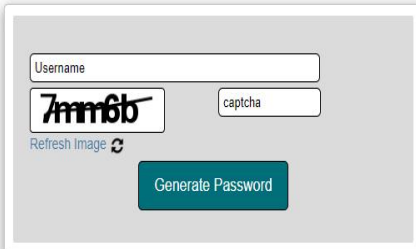


The screenshot shows a login form with the following elements:

- Username input field
- Password input field
- Captcha image showing the text "k4a3k" with a cursor pointing to it.
- Refresh Image button with a circular arrow icon.
- Login button (green)
- Forgot Password? link (blue text)

*Figure 15: Forgot Password*

**Step II** On clicking Forgot Password link, dialog box will appear wherein user needs to provide username. A link will be sent to the registered email ID of user.



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*Figure 16: Generate Password*

**Step III** By clicking on the link shared in email, reset password page will be opened.

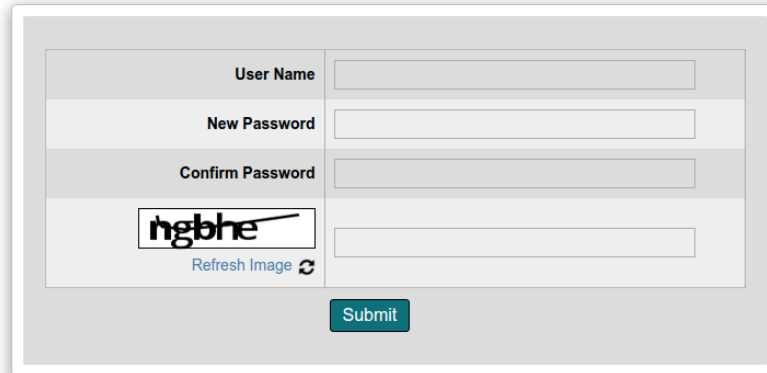
## User Manual for CORS - RRC Radiologists

User needs to enter the required details and click on “Submit” button. After successful validation, new password is set for the user.



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The screenshot shows a web form for resetting a password. It contains four input fields: 'User Name', 'New Password', 'Confirm Password', and a CAPTCHA field. The CAPTCHA field displays the text 'hgblhe' and includes a 'Refresh Image' link with a circular arrow icon. A green 'Submit' button is located at the bottom of the form.

*Figure 17: Reset Password*