

# **NMCN PROJECT ACTIVITY REPORT**

**(April 2018 – March 2019)**

**RRC JIPMER PONDICHERRY**

## **Nodal Officer Telemedicine**

Prof Dr Ravi Kumar Chittoria

## **Telemedicine Infrastructure & Network Administrator (Telemedicine)**

Mr Mohamed Ishaq Z

(Under NMCN Project of MoH&FW)

## **Content Developer**

Ms. Kavitha

(Under NMCN Project of ERNET M/s Yash Technologies)

## **Audio Visual Technician**

Mr Prasanth

(Under NMCN Project of ERNET M/s Yash Technologies)

## **Departmental Highlights**

**Telemedicine Service** of JIPMER has been designated by Ministry of Health & Family Welfare(MOHFW), Govt. of India as Regional Resource Centre (RRC) for Telemedicine for 6 States of South India (Andhra Pradesh, Karnataka, Kerala, Tamil Nadu, Telangana & Pondicherry) for connecting JIPMER with >160 Medical Colleges of South India & other parts of India (Mizoram, AIIMS Raipur, Jodhpur, Bhopal, RML Hospital Delhi, Safdarjung Hospital Delhi, Gangaram Hospital Delhi etc) and Overseas (Bhutan, Bangladesh, Myanmar, Srilanka, Nepal, Thailand, UK, USA, Australia, Japan, Korea, Morocco, etc.) and include various Telemedicine services like Telemedicine Clinic, Medical Virtual Class Room, Tele-Dial Service, Tele-Patient-Attendant Interaction (Barrier Nursing) Service, Tele-OPD, Tele-Ward, Tele-OT, Tele-Emergency, Tele-Monitoring, Tele-Recording, Tele-Mentoring, Tele-Health Camps, Tele-Evidence, Tele-Radiology, Tele-Disaster Service, Live Telecast, Tele-Videoconferencing, Virtual Tumor Board, Campus Digitalization, e-learning Centre, Digital Library, Thesis Digitalization, Tele-Sabarimala Project, Tele-Onconet Project, NMCN Project, Tele-Ophthalmology Project, NKN Project, ISRO Project, e-Class Room (Digital

Medical Lecture Theatre) using National Knowledge Network (NKN), BIMSTEC Network and Satellite Connectivity.

#### **Educational Courses**

JIPMER Telemedicine Service regularly conducts classes on Telemedicine for Undergraduates, Postgraduates, Nursing Students and Medical Record Technicians.

#### **Statistics of Telemedicine Services (April 2018- March 2019)**

<b>Sl. No</b>	<b>Statistics of Telemedicine Services (2018-19)</b>	<b>Total Number</b>
1	Telemedicine Clinic Tele-Consultations	6120
2	Live Telecast of Scientific Sessions between JIPMER & 160 Medical Colleges of South India and AIIMS Raipur/Jodhpur, Dr. RML Hospital New Delhi, Gangaram Hospital New Delhi, Morocco and BIMSTEC Countries.	32
3	Videoconferencing Sessions with MoH&FW, Nirman Bhavan, New Delhi	2
4	Videoconferencing Teaching Sessions with SGPGI Lucknow	28
5	Videoconferencing Sessions with ISRO Officials	3
6	Videoconferencing Sessions with Sabarimala Officials	1
7	Telephonic (Toll-Free) Emergency Consultations given for Public using Dial JIPMER Service Centre in JIPMER	1860
8	Emergency Tele-Videoconferencing Based Consultations for Public using Casualty Telemedicine Centre	2
9	Videoconferencing Sessions between JIPMER & Kuysu University, Japan	7
10	Tele-OPD Consultations	940
11	Tele-Barrier Nursing cum Tele-Patient-Attendant Interaction Sessions in ICU	742
12	Tele-Ward Round Consultations	1736
13	Tele-ICU Consultations	1254

14	Tele-Monitoring of ICU Patients	1348
15	Tele-Surgery Consultations	1622
16	Tele-Emergency Consultations	1745
17	Head Mounted Video Camera Based Tele-Monitoring & Recording of Surgeries	96
18	Spectacle Mounted Video Camera Based Tele-Monitoring & Recording of Surgeries	147
19	3-D Google Card Board Based Tele-Consultations	18
20	Mobile Telemedicine Console Based Consultations	760
21	Tele-Health Camp Consultations	20
22	Online Tele-Lecture being delivered from JIPMER	12
23	Medical Virtual Class Room (MVCR) e-Classroom Sessions (Hunter Theatre)	163
24	m-Health Consultations	85
25	Tele-Patient-Attendant Interaction Sessions in Burn Ward	5341
26	ISRO Tele-CME Sessions	7
27	Digital Medical Lecture Theatre e-Classroom Sessions (Pasteur Theatre)	27
28	Tele-Consultation between JIPMER and GH Yanam	2

### Telemedicine Activities

Following Telemedicine Sessions (Video Conferencing / Live Telecast) were organized

1. Four Tele-Video Conferencing Sessions between JIPMER Puducherry and University Hospital, Marrakech, Morocco in Telemedicine Centre, SS Block, JIPMER.

2. Live Telecast of 'Second International Undergraduate Medical Students Conference 2018' on 21st - 22nd April 2018 in JIPMER to South Indian States and Morocco & BIMSTEC Countries in Dr APJ Abdul Kalam Auditorium.
3. Live Telecast of CME on 'Wound Update-2018' to South Indian States and Morocco & BIMSTEC Countries in held in Department of Plastic Surgery in Telemedicine Centre, SS Block, JIPMER on 26<sup>th</sup> July 2018.
4. Live Telecast of '1<sup>st</sup> Anniversary Celebration on Bilateral Cadaveric Hand Transplantation' to South Indian States and Morocco & BIMSTEC Countries in held in Department of Plastic Surgery OPD, SS Block, JIPMER on 9<sup>th</sup> August 2018.
5. Video Conference Session of 'Live Demonstration of e-Class Room (NMCN Project) to Joint Secretary, MoH&FW' in Telemedicine Centre, SS Block, JIPMER on 8<sup>th</sup> October 2018.
6. Organizing of Tele-Consultation (Video Conferencing) by Consultant, Department of Psychiatry JIPMER for Morocco's patient in Telemedicine Centre, SS Block, JIPMER on 15<sup>th</sup> October 2018.
7. Live Telecast of 'Cleft Awareness Week and Cleft Surgery Workshop' to South Indian States and Morocco & BIMSTEC Countries for Department of Plastic Surgery, JIPMER in Conference Hall, SS Block on 20<sup>th</sup> to 27<sup>th</sup> October 2018.
8. Live Telecast of Inauguration of 'HD TV Studio & JIPMER Internet Radio' to South Indian States and Morocco & BIMSTEC Countries held in JIPMER TV Studio in JIPMER Academic Centre (JAC) on 29<sup>th</sup> October 2018.
9. Live Telecast of 'CME on Bariatric Surgery' to South Indian States and Morocco & BIMSTEC Countries for Department of Surgical Gastroenterology in Conference Hall, SS Block on 8<sup>th</sup> December 2018.
10. Live Telecast of Inauguration of 'Medical Virtual Smart Class Room (MVSCR)' to South Indian States and Morocco & BIMSTEC Countries held in Hunter Theatre inaugurated by Director JIPMER on 18th December 2018.
11. Live Telecast of Inauguration of 'Medical Drone Service' to South Indian States and Morocco & BIMSTEC Countries inaugurated by Director JIPMER held in Telemedicine Centre, SS Block, JIPMER on 21<sup>st</sup> December 2018.
12. Live Telecast of 'Postgraduate MD/MS Second Counseling of January 2019 Session' held on 9<sup>th</sup> January 2019.

13. Live Telecast of Inauguration of 'Training Programme on Digital Medical Lecture Theatre (e-Class Room)' under NMCN Project of Ministry of Health & Family Welfare (MoH&FW), Govt. of India to South Indian States and Morocco & BIMSTEC Countries inaugurated by Director JIPMER in Pasteur Theatre, Old Institute Block, JIPMER on 11<sup>th</sup> & 12<sup>th</sup> January 2019.
14. Live Telecast of Scientific Programme of 'JIPMER Scientific Society (JSS)' to South Indian States and Morocco & BIMSTEC Countries held in Conference Hall, SS Block, JIPMER on 26<sup>th</sup> February 2019.
15. Live Telecast of 'CME & Operative Workshop of APSICON's Visiting Professor (Aesthetic Surgery)' to South Indian States and Morocco & BIMSTEC Countries held in Department of Plastic Surgery, JIPMER on 21<sup>st</sup> & 23<sup>rd</sup> February 2019.
16. Organized Live Telecast of 'Inauguration of HD TV Studio, Internet Radio & Digital Signage Service' inaugurated by Director JIPMER in TV Studio in JIPMER Academic Centre (JAC) on 29<sup>th</sup> October 2018.
17. Video Conference Tele-Consultation Session between JIPMER Puducherry and NIC Chennai in Telemedicine Centre, SS Block, JIPMER on 5th April 2018.
18. More than 180 Teaching Sessions in Medical Virtual Class Room (Hunter Theatre) for MBBS Students between JIPMER Puducherry and JIPMER Karaikal.
19. More than 45 Tele-CGR Video Conferencing Sessions between JIPMER and SGPGI, Lucknow in Telemedicine Centre, SS Block, JIPMER.
20. Four Tele-CMEs Video Conferencing Sessions for ISRO Telemedicine Network between DECU Hyderabad and JIPMER in ISRO Telemedicine Centre.
21. Online Workshop on CORS (CollabDDS Online Radiology Services) between JIPMER and SGPGI Lucknow in Telemedicine Centre, SS Block, JIPMER on 27<sup>th</sup> July 2018.
22. Live Telecast of CME on 'Sensitization of Health Care Workers in Cleft Lip and Cleft Palate Deformities' to South Indian States and Morocco & BIMSTEC Countries in Department of Plastic Surgery in Conference Hall, SS Block, JIPMER on 7<sup>th</sup> July 2018.
23. Video Conference meeting on Implementation of CORS (CollabDDS Online Radiology Service) Project in Telemedicine Centre, SS Block, JIPMER on 30th November 2018.
24. Video Conference meeting on implementation of CORS Project in Telemedicine Centre, SS Block, JIPMER on 7<sup>th</sup> December 2018.

25. Video Conference Session on ‘Inauguration of Soft Launch of NMCN Project’ in Pasteur Theatre (e-Class Room), Old Institute Block, JIPMER on 15<sup>th</sup> January 2019.
26. Live Streaming of ‘Digital Launch of RUSA Project in Srinagar’ by Hon’ble Prime Minister of India from Srinagar on 3<sup>rd</sup> February 2019 in Telemedicine Centre, SS block, JIPMER.
27. Tele-Consultation (Video Conferencing based) for Patient of GH Yanam by JIPMER Consultant on 27<sup>th</sup> March 2019.

### **Faculty conference participation**

#### **Prof Dr Ravi Kumar Chittoria:**

1. Attended ‘SKOCH Award-2019’ in New Delhi on 2<sup>nd</sup> February 2019 and delivered a Lecture ‘Innovative Application of Drone in Improving the Patient Care using Cost Effective Technology in a Government Hospital’.

### **Participation in health camps/ public health awareness/ education programme**

1. Prof Dr Ravi Kumar Chittoria participated remotely (online) in Tele-Health Camps held in Karaikal in the month of April 2018 and Teleconsultation given for 2 patients.
2. Prof Dr Ravi Kumar Chittoria participated remotely (online) in Tele-Health Camps held in Karaikal in the month of June 2018 and Teleconsultation given for 4 patients.
3. Prof Dr Ravi Kumar Chittoria participated remotely (online) in Tele-Health Camps held in Karaikal in the month of August 2018 and Teleconsultation given for 3 patients.
4. Prof Dr Ravi Kumar Chittoria participated remotely (online) in Tele-Health Camps held in Karaikal in the month of October 2018 and Teleconsultation given for 2 patients.
5. Prof Dr Ravi Kumar Chittoria participated remotely (online) in Tele-Health Camps held in Karaikal in the month of December 2018 and Teleconsultation given for 4 patients.
6. Prof Dr Ravi Kumar Chittoria participated remotely (online) in Tele-Health Camps held in Karaikal in the month of February 2019 and Teleconsultation given for 3 patients.

## **Publications**

1. Chittoria RK. Tele-Emergency: JIPMER Experience. AJECCM 2018; 3(2): 16-18.
2. Chittoria RK. Dial-Jipmer Service (24x7): Our Experience. IJMHS 2017; 4(2).32-34.
3. Chittoria RK. Live Telecast of Scientific Sessions: JIPMER Experience. NIJS 2019; 10(2): 234-237.
4. Chittoria RK. Application of Tele-Health Camps In Plastic Surgery. NIJS 2019; 10(2): 242-244.
5. Chittoria RK. Role of 3D Video technology In Plastic Surgery. IJCDR 2019; 7(3): 38-40.

## **Visiting Professor**

1. Dr Medha Bhawe, Director of Plastic Surgery Centre, Mumbai visited Telemedicine Services.
2. Prof Dr G Manokaran, Senior Consultant, Apollo & Billroth Hospitals, Chennai visited Telemedicine Services.
3. Dr Raj Mohan, Consultant Plastic Surgeon, Sundaram Medical Foundation, Chennai visited Telemedicine Services and visited Telemedicine Services..
4. Shri George Kuruvilla Chairman & Managing Director of BECIL visited TV Studio on 29<sup>th</sup> October 2018.
5. Mrs Usha Mangalgi AGM of BECIL visited TV Studio in JAC on 29<sup>th</sup> October 2018.
6. Dr Neena Pahuja, Director General, ERNET India visited e-Class Room Service in JIPMER on 11<sup>th</sup> January 2019.
7. Shri. Dilip Kumar Barman, Director, ERNET India visited e-Class Room Service in JIPMER on 11<sup>th</sup> January 2019.
8. Shri. Sudhansh Pant, IAS, Joint Secretary, MoH&FW, New Delhi visited JIPMER TV Studio & Internet Radio and Telemedicine Service on 27<sup>th</sup> March 2019.

**New services started**

1. Started New Service - 'e-Classroom (Digital Medical Lecture Theatre)' under NMCN Project of Ministry of Health & Family Welfare (MoH&FW), Govt. of India on 26th November 2018.
2. Started New Service - 'Medical Virtual Smart Class Room (MVSCR)' on 18th December 2018.
3. Started New Service - 'Medical Drone Service' by Director JIPMER on 21st December 2018.