Physical & Financial Report of RRC (North) PGIMER, Chandigarh

Manpower under RRC North:

Nodal Officer   **Prof. Biman Saikia**

(Current working posts)
1. **Project leader & Coordinator**
2. **Consultant (Non-Medical)**
3. **Associate Consultant**
4. **Telemed. Infra. and Net. Admn.**
5. **Content Developer**

(Posts to be filled)
1. **Consultant (Medical)**
2. **Consultant (Radiology)**
3. **Consultant (Pathology)**
4. **Technician (Pathology)**

Background:

The Department of Telemedicine at PGIMER is a pioneer in providing both basic telemedicine facilities as well as a highly specialized quality service to the people of this region i.e. Chandigarh, Haryana, Himachal Pradesh, Jammu & Kashmir, Uttar Pradesh, Uttaranchal and Rajasthan. This Centre is connected to 24 district hospitals and 3 medical colleges of Punjab for Tele consultations through and to the Post Graduate Institute Rohtak, SGPGI Lucknow, AIIMS Delhi, AIIMS Bhubneshwar, Jaslok Hospital Mumbai, DMC Ludhiana, Fortis hospital Mohali, PIMS Jalandhar, GMC Trivandrum, IGMC Shimla, Dr. RPGMC Tanda and many others for interactive sessions through Video Conferencing.

Regional Resource Centre (under National Knowledge Network)
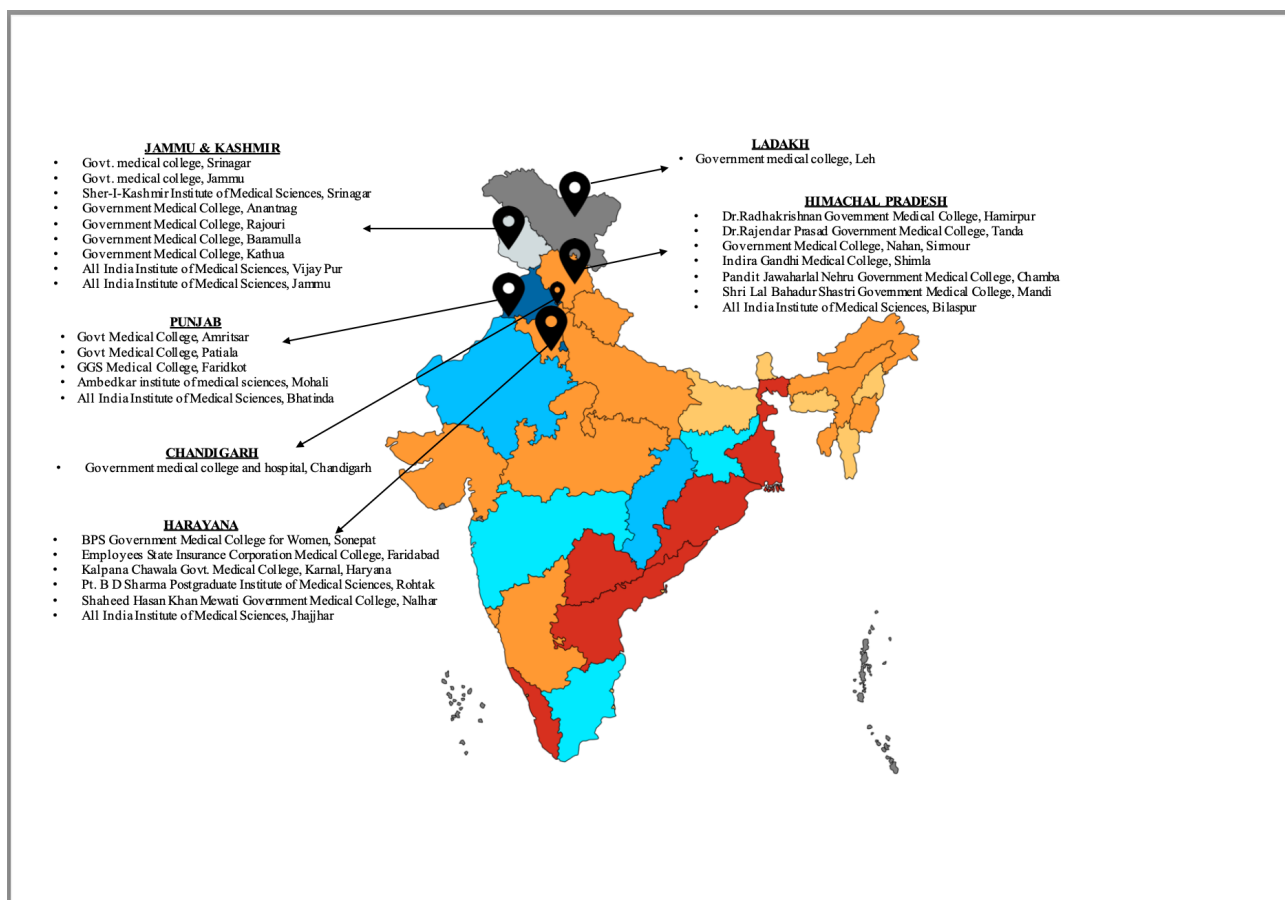
Our Centre has been designated as Regional Resource Centre (under NKN) of North India in 2016. PGIMER is the Nodal centre of the North zone for the national knowledge network and is connected to the medical colleges of J&K, Himachal Pradesh, Chandigarh, Punjab and Haryana. Following hospitals are coming under RRC, PGIMER, Chandigarh.

1. Dr. Rajendra Prasad Govt. Medical College, Tanda, Himachal Pradesh

2. Indira Gandhi Government Medical College, IGMC, Shimla, Himachal Pradesh

3. Postgraduate Institute of Medical Sciences, PGIMS, Rohtak, Haryana

4. Government Medical College, Jammu, Jammu & Kashmir

5. Government Medical College, Jammu & Kashmir

6. Guru Govind Singh Medical College, Faridkot, Punjab

7. Govt. Medical College and Hospital, Amritsar, Punjab

New Medical Colleges:

Recently 22 new medical colleges were added under RRC North. In this concern, 7 nodal officers have been assigned and others are in progress.

JAMMU & KASHMIR
- Govt. medical college, Srinagar
- Govt. medical college, Jammu
- Sher-I-Kashmir Institute of Medical Sciences, Srinagar
- Government Medical College, Anantnag
- Government Medical College, Rajouri
- Government Medical College, Baramulla
- Government Medical College, Kathua
- All India Institute of Medical Sciences, Vijay Pur
- All India Institute of Medical Sciences, Jammu

PUNJAB
- Govt Medical College, Amritsar
- Govt Medical College, Patiala
- GGS Medical College, Faridkot
- Ambedkar institute of medical sciences, Mohali
- All India Institute of Medical Sciences, Bhatinda

CHANDIGARH
- Government medical college and hospital, Chandigarh

HARAYANA
- BPS Government Medical College for Women, Sonepat
- Employees State Insurance Corporation Medical College, Faridabad
- Kalpana Chawala Govt. Medical College, Karnal, Haryana
- Pt. B D Sharma Postgraduate Institute of Medical Sciences, Rohtak
- Shaheed Hasan Khan Mewati Government Medical College, Nalhar
- All India Institute of Medical Sciences, Jhajjhar

LADAKH
- Government medical college, Leh

HIMACHAL PRADESH
- Dr.Radhakrishnan Government Medical College, Hamirpur
- Dr.Rajendar Prasad Government Medical College, Tanda
- Government Medical College, Nahan, Sirmour
- Indira Gandhi Medical College, Shimla
- Pandit Jawaharlal Nehru Government Medical College, Chamba
- Shri Lal Bahadur Shastri Government Medical College, Mandi
- All India Institute of Medical Sciences, Bilaspur

National Medical College Network (NMCN)

RRC North, PGIMER is a part of National Medical College Network, and it is now facilitating tele-services in medical education and consultancy. We are working on the same and already in touch with the concerned medical colleges for their requirement.

Main Activities of RRC:

I.   **Tele education**

II.   **Tele consultation**

III. **Tele evidence**

Total Telemedicine Sessions (2016 to 2021):

Session	2016-17	2017-18	2018-19	2019-20	2020-21	Total
Tele-Education Sessions	247	120	130	501	3710	**4708**
Tele-Consultation Sessions	1934	1291	1325	1229	30,52,571	**30,58,350**
Tele-Evidence Sessions	1520	1520	1654	3138	211	**8043**

Total Telemedicine Sessions (2021 to 2023):

Session	2021-22	2022-23	Total
Tele-Education Sessions	1362	1116	**1248**
Tele-Consultation Sessions	22444	57465	**78909**
Tele-Evidence Sessions	442	1294	**1736**

All the sessions are being webcast and recorded through NMCN portal: www.nmcn.in and on the Department YouTube Channel with 7500 subscribers. https://www.youtube.com/channel/UC6Xx2mkGwAfBE0UqE_lqqcg.

We have conducted many webinars and most of them are available on the YouTube channel. Till date more than **1,00,000** people have seen these videos. Now most of the sessions are being conducted through webex portal

LMIS Modules/Courses:

Modules Uploaded on LMIS		Modules Approved & Under Process	
Module/Course	Number of Lessons	Department	Number of modules
Evidence Based Medicine	9	Biochemistry	5
Basics concepts in immunology	4	Medical Microbiology	16
Functional Areas of Cerebral Cortex	4	Obstetrics & Gyna ecology	7
Prioritization	1	Psychiatry	11

Pre-clinical/Anatomy	3	Community Medicine & School of public health	13
AETCOM/Misc	1	ENT	3
Cardiovascular Physiology	1		
Congenital Heart Disease	1		
Total	**24**	**Total**	**55**

Tele-Consultations:

Tele consultations through NKN connectivity via e-Sanjeevani Software

RRC North is providing the on line consultation through **e-Sanjeevani** programme developed by the C-DAC, Mohali to the 24 District hospitals and 3 Govt. medical colleges of Punjab, Haryana, Leh & Ladakh and other states of India through PGIMER e- Sanjeevni OPD.

State wise teleconsultation data till date:

State	No of Consultations
Haryana	96,448
Punjab	54,697
Leh and Ladakh	409
PGIMER, Chandigarh (All States)	29,91,205
Total	**31,42,759**

Teleconsultations to the state of Haryana

The Telemedicine Centre at the institute is a pioneer in providing both basic telemedicine facilities as wellas a highly specialized quality service to the people of this Haryana state. This Centre is connected to 20 district hospitals and 91 community health centre (CHC) and 336 Primary health centre (PHC), 26 sub divisional hospital (SDH) & 21 district HQ hospital.

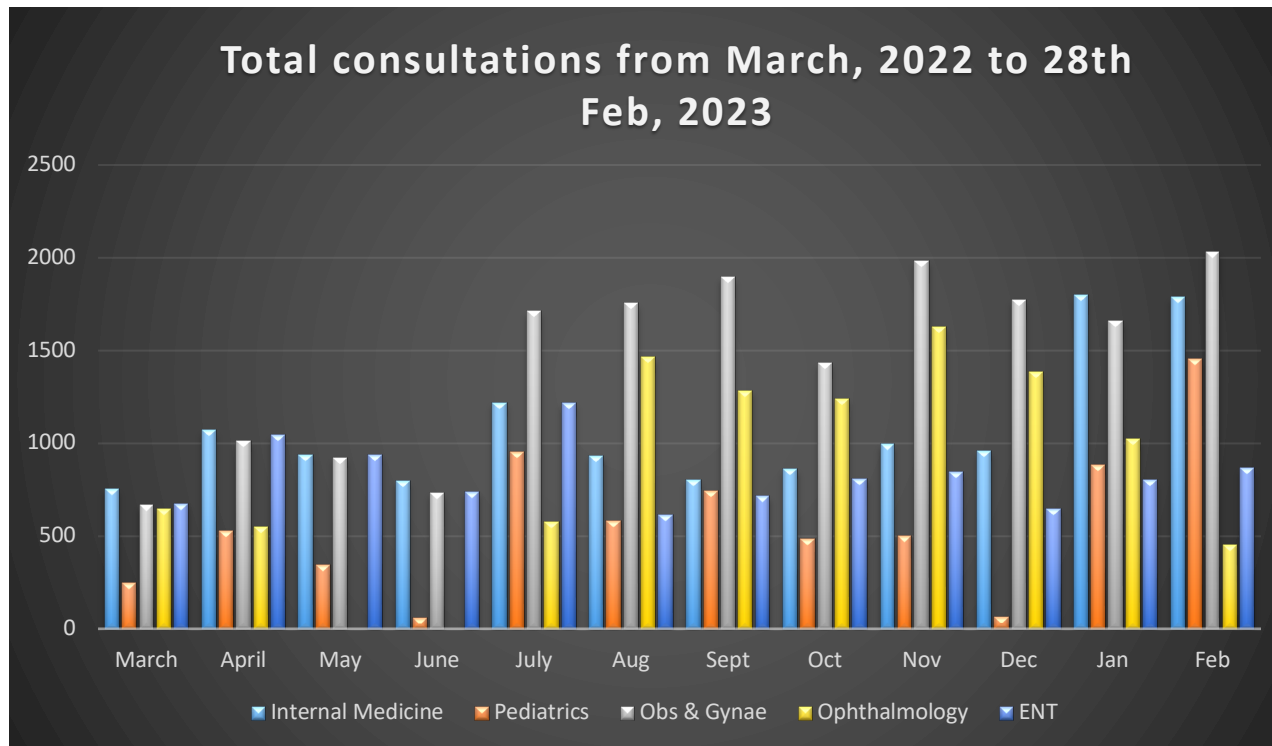# Total number of consultation from 4th March 2021 to February 2022 Month

	Department	Month												Total
		March	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	
1	Internal Medicine	2	324	126	258	509	434	735	948	1026	832	664	730	6588
2	Pediatrics	53	58	10	62	127	171	291	446	467	321	206	355	2567
3	Obs & Gynae	Not Joined	149	32	115	333	243	497	704	882	793	597	588	4933
5	Ophthalmology	Not Joined	Not Joined	38	88	303	245	522	991	979	976	694	733	5569
6	Otorhinolaryngology	Not Joined	Not Joined	Not Joined	Not Joined	Not Joined	Not Joined	Not Joined	598	617	685	436	451	2787
	Total	55	593	214	523	1272	1093	2025	3687	3971	3607	2597	2857	22444

Total number of consultations from 1st March 2022 to 28th Feb. 2023

	Department	Month												Total
		March	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	
1	Internal Medicine	751	1072	939	794	1220	933	803	862	995	955	1798	1788	**12910**
2	Pediatrics	249	528	344	58	952	579	743	483	502	64	880	1453	**6835**
3	Obs & Gynae	667	1012	922	732	1712	1753	1895	1431	1980	1774	1659	2034	**17571**
5	Ophthalmology	645	548	-	-	575	1465	1285	1240	1629	1383	1021	452	**10243**
6	Otorhinolaryngology	673	1045	937	737	1218	613	716	808	845	647	802	865	**9906**
	Total	2985	4083	3146	2324	5685	5343	5442	4824	5951	4823	6160	6592	**57465**

Total consultations: 22,444 + 57,465= 79,909

Graphical representation of Total Consultation provided 1st March 2022 to 28th February 2023

TOTAL CONSULTATIONS

Month	Value
March	2985
April	4205
May	3142
June	2321
July	5677
Aug	5343
Sept	5442
Oct	4824
Nov	5951
Dec	4823
Jan	6160
Feb.	6592

Total number of consultations from 01/03/22 to 28/02/23

Internal Medicine	Pediatrics	Obs & Gynae	Ophthalmology	ENT
12910	6835	17571	10243	9906
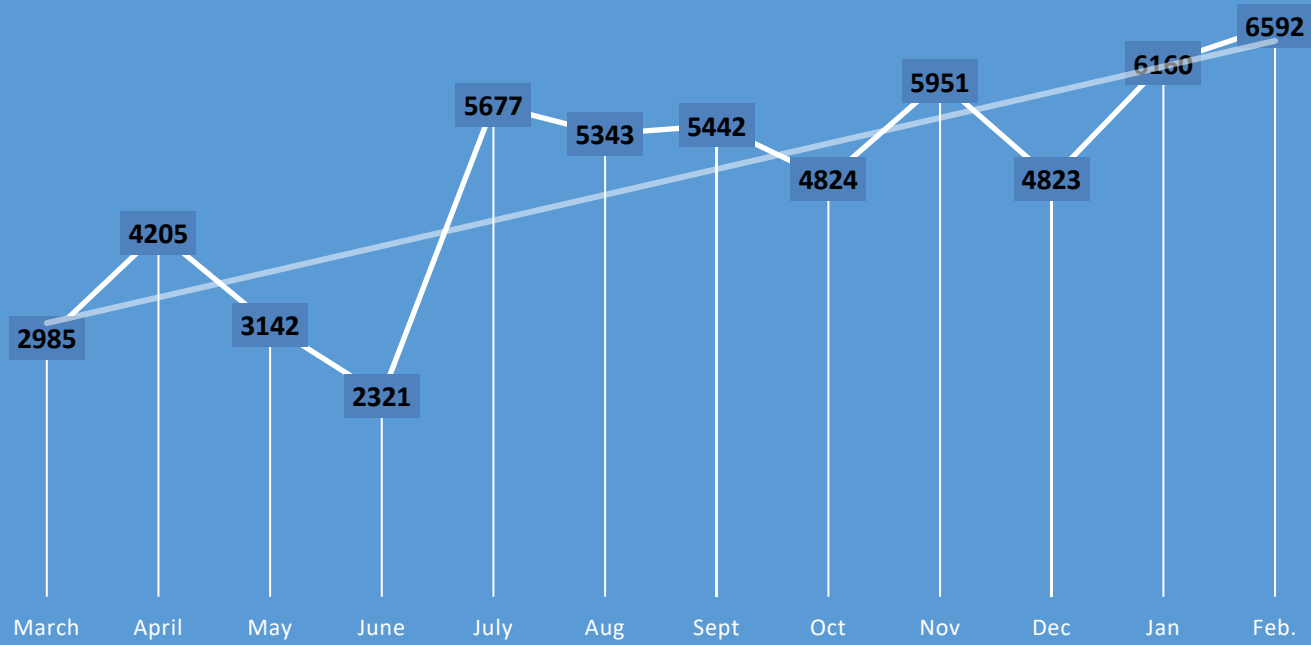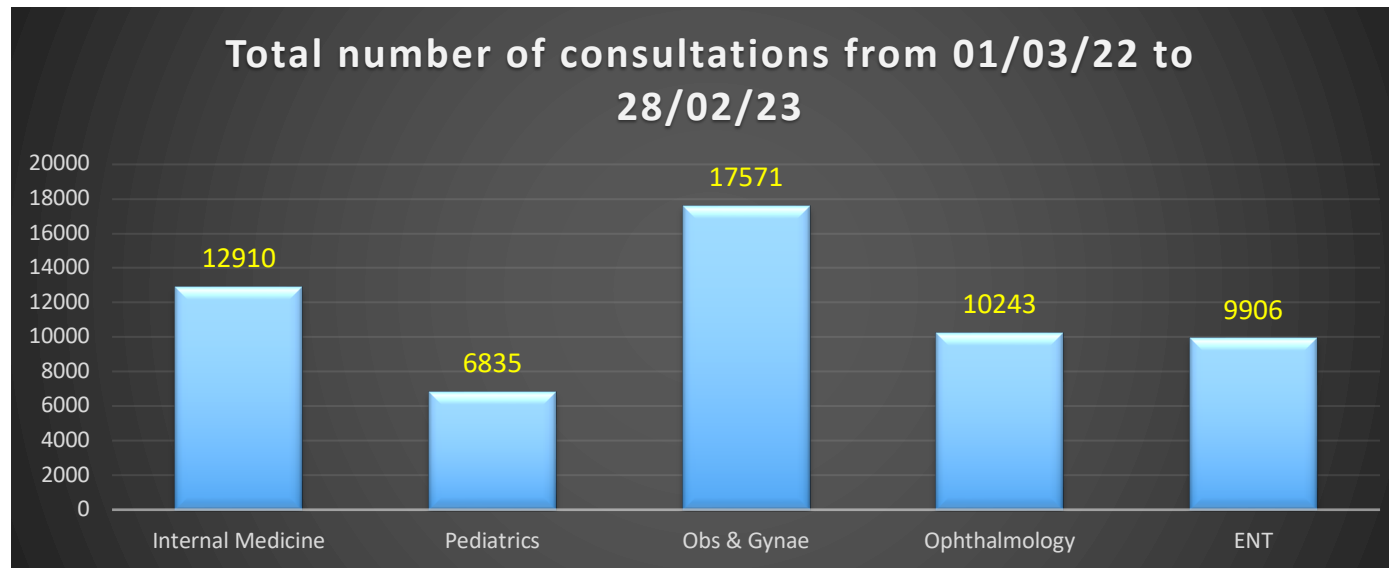
Total consultations (From 1st March 2021 to 28th February 2023)- 79,909

Average consultation per user per day- 33.29

Total consultations as per specialization-

1. Obs & Gynae= 22504
2. Internal Medicine= 19498
3. Ophthalmology= 15812
4. Otorhinolaryngology= 12693
5. Pediatrics= 9402

Number of Tele-consultations from March 2023 after launch of e-sanjeevani 2.0

S. No.	Department	Month				Total
		March	April	May	June	
1.	Internal Medicine	1172	1089	1217	1062	4540
2.	Pediatrics	650	625	738	860	2873
3.	Obs & Gynae	1181	868	912	633	3594
4.	Ophthalmology	596	627	604	760	2587
5.	Otorhinolaryngology	462	324	380	-	1166
6.	Dermatology	333	344	394	708	1779
	Total	**4395**	**3877**	**4244**	**4023**	**16539**

Main Highlights

The use of telemedicine is strengthening the rural health services and providing medical education by specialists through Video conferencing. Telemedicine provides high quality clinically relevant medical updates and access to modern technology in diagnosis and treatment through educational programmes.

Tele-consultation Services under Hub & Spoke Model for AB-HWCs in Haryana has been set up for National Health Mission, Haryana and Ministry of Health & Family welfare, Government of India.

Transmission of Clinical Lectures

We are continuing with the transmission of clinical lectures on Monday, Tuesday and Thursday from 8 A.M to 9 A.M to all the three medical colleges of Punjab which started on 20 January 2014, and it is benefitting the faculty there.

1. Live transmission of Session

This Centre is also facilitating the live transmission of various sessions being held in our institute. We have successfully transmitted 728 sessions to all over the India.

2. Interactive Sessions

Interactive session between Department of Pediatric medicine of PGIMER and AIIMS, New Delhi has been transmitted every Monday and Interaction between the Pediatric Genetics of PGIMER and SGPGI, Lucknow on every Tuesday. Teaching sessions regarding Hepatitis C awareness have been transmitted through zoom software with district hospitals of Punjab by Department of Hepatology twice in a month.

3. Clinical-Pathological Conferences

Telemedicine Centre is transmitting the educational CPCs to the various medical colleges connected. A total number of **60 CPCs** were transmitted from April 2022 to March 2023. Different educational sessions of various departments have also been transmitted to the connected centers.

4. **ECHO- Zoom Class for North East Region**

Project ECHO (Extension for Community Healthcare Outcomes) is an innovative model of healthcare education. ECHO uses widely available video conferencing technology to leverage specialty knowledge that may only exist in an academic medical center to empower community primary care clinicians. By way of ongoing telementoring, participating clinicians develop expertise in various fields and the model could be well adapted for online mentoring towards capacity building in the field of Evidence Based Medicine. This proposal aims at capacity building in the Northeastern region in the field of Evidence Based Child Health (Principles and Application) using the online mentoring platforms like ECHO model.

5. **Workshop & Conferences:**

1. Health Information System (HIS) & Online Registration System (ORS): Ground realities and 360° View" Under the aegis of Ministry of Health and Family welfare, Government of India On 28 th September 2016.

2. National workshop & Conference on "Evidence Based Medicine"16/02/2019– 17/02/2019 Venue: eClass room, ADVANCED PEDIARICS CENTRE, PGIMER, CHANDIGARH

3. CME in telemedicine on the foundation day: April 14 th , 2019. Venue: APC

Auditorium Advanced Pediatric Centre, PGIMER, Chandigarh.

4. Implementation of e-Sanjeevani in Health & Wellness centres on October 30 th ,

2019. Venue: lecture Theater 1, Nehru hospital, PGIMER, Chandigarh

5. Teaching communication skills for residents: October 18 th , 2019. Venue: lecture

Theater 1, Nehru hospital, PGIMER, Chandigarh

6. IAACON 2020- February 14-16 th , 2020. Venue: Hotel Taj, Chandigarh

7. Homeopathy workshop on Evidence Based Medicine. October 19 th , 2019 Venue:

Homoeopathic Medical College & Hospital, M-671, Sector - 26, Chandigarh.

8. CME on Telemedicine was organized on the foundation day of the department i.e. on 13 th April 2020. The foundation day lecture was delivered by Prof S K Mishra, Dean, SGPGI,Lucknow. The CME was organized through virtual mode due to pandemic.

9. Webinar series on COVID 19 and Children

10. CME on Telemedicine was organized on the foundation day of the department i.e. on 13th April 2021 and the theme was "COVID 19 and telemedicine".

11. Online Workshop on Artificial Intelligence/ Machine Learning in Healthcare Date: 13-04-2022

12. HANDS ON WORKSHOP ON APPLIED MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE IN HEALTHCARE, 25th to 25th February 2023.

13. Workshop on "Professionalism in Medical Communication for Faculty" Dated 17/11/18. Venue: Lecture Theatre 1, Nehru Hospital, PGIMER, Chandigarh.

14. Workshop on " Professionalism in Medical Communication for Residents" Dated 24/11/2018 at Lecture Theatre 1, PGIMER, Chandigarh funded by Medical Council ofIndia
15. Conference "Evidence Based Conference" on 16-17 March, 2019 at Advanced Pediatrics Centre auditorium, PGIMER, Chandigarh
16. Workshop on "Professionalism in Medical Communication for Residents" 30th March 2019 at Advanced Pediatrics Centre, PGIMER, Chandigarh

<u>Centre of Excellence in Artificial Intelligence For Healthcare by Ministry of Health and Family Welfare (MoHFW), Government of India</u>.

- ➢ The centre of excellence for Artificial Intelligence is approved to the RRC, PGIMER on 5th August 2022.

- ➢ Till date 9 proposals for development of AI tools have been reviewed. Out of 9 proposals, 4 are been taken initially and 5 are in pipeline.

- ➢ Vision document related to the guidelines and SoP has been formulated.

- ➢ CoE-AI committee has been formed from PGIMER, Chandigarh under the chairmanship of Prof Samir Malhotra, Department of Pharmacology, PGIMER, Chandigarh.

- ➢ Prescription auditing committee is under process.

Currently four projects are undertaken by the e-Health section, Ministry of Health and Family welfare.

- 1. Artificial Intelligence model to predict mortality in alcoholic hepatitis patients (AIM-AH) study
- 2. Artificial Intelligence for diagnosis, classification and prognostication of lung cancer on cytology specimens.
- 3. Development and testing of an artificial intelligence enabled evidence-based self-help smartphone application for smokeless tobacco cessation.
- 4. Development of Artificial Intelligence based predictive model and assessment of its diagnostics accuracy for oral cancer risk assessment.

Research in Progress:

MINISTRY OF HEALTH AND FAMILY WELFARE (MOHFW), GOVERNMENT OF INDIA

1. National Medical College Network Project (Regional Resource Centre, North)
2. Centre of Excellence for Artificial Intelligence in Healthcare
3. Centre of Excellence in Telepathology
4. Implementation of Collab –DDS online Tele Radiology Services

OVERALL PUBLICATIONS:

1. Jain S, Agarwal A, Bhardwaj A et al. Remote Monitoring and Holistic Care of Home-Isolated COVID-19 Positive Healthcare Workers Through Digital Technology During the Omicron (B1.1.529) Wave: A Prospective Cohort Study from India. Front Public Health. 2022 Jul 13;10:936000. doi: 10.3389/fpubh.2022.936000. PMID: 35910868; PMCID: PMC9326076.

2. Markan A, Kishore A, Agarwal A, et al. Demographic profile of patients seeking teleophthalmology consultations through e-Sanjeevani: Retrospective analysis of 5138 patients from North India. Indian J Ophthalmol. 2022 Dec;70(12):4238-4243. doi: 10.4103/ijo.IJO_781_22. PMID: 36453323.

3. Meena J, Agarwal A, Sandhu A, et al. Efficacy and safety of remdesivir for patients with SARS-CoV-2 infection: A systematic review of randomized controlled trials). Indian J Pharmacology 2022 (Accepted)

4. Sachdeva M, Agarwal A, Sra HK et al. Multisystem Inflammatory Syndrome Associated With COVID-19 in Children (MIS-C): A Systematic Review of Studies From India. Indian Pediatrics. 2022; 59 (Impact factor- 3.839)

5. Panchanadikar NT, Abirami S, Muthu MS et al.. Breastfeeding and Its Association with Early Childhood Caries - An Umbrella Review". Journal of Clinical Pediatric Dentistry (JOCPD). 2022; 46(2): 75-85. doi 10.17796/1053-4625-46.2.1

6. Abirami S, Panchanadikar NT, Muthu MS, et al. Dental Caries Experience among Children and Adolescents with Cleft Lip and/or Palate: An Umbrella Review. Int J Clin Pediatr Dent 2022;15(S-2):S261–S268

7. Lavu V, Kumar D, Krishnakumar D, et al. Erbium lasers in non-surgical periodontal therapy: an umbrella review and evidence gap map analysis. Lasers Med Sci. 2022 Jan 14. doi: 10.1007/s10103-022-03504-4. Epub ahead of print. PMID: 35029727.

8. Bhatia, R Chauhan, Anil; Kaur, Kulbir; Rana, Monika; Singh, Meenu. Cost-Effectiveness of Currently Available Diagnostic Tools for Diagnosis of Pediatric Tuberculosis Under National Tuberculosis Elimination Program. Indian Journal of Community Medicine 48(1):p 24-30, Jan–Feb 2023. | DOI: 10.4103/ijcm.ijcm_471_22.

9. Kaur H, Meenu M, Pandey S, Chauhan A. Efficacy and Safety of PRP in Patients with Recurrent Implantation Failure Undergoing ART- A Systematic Review & Meta-analysis. Authorea. January 03, 2023. DOI: 10.22541/au.167275808.85086859/v1.

10. Rani, B., Paul, A., Chauhan, A. *et al.* Is Neck Pain Related to Sagittal Head and Neck Posture?: A Systematic Review and Meta-analysis. *JOIO* (2023). https://doi.org/10.1007/s43465-023-00820-x

11. Chauhan, A, Kaur, K, Singh, M et al. Zinc in the Treatment of Severe Acute Respiratory Syndrome-Related Coronavirus-2 Infection: A Systematic Review and Meta-Analysis. Journal of Pediatric Pulmonology 1(1):p 24-32, Jan–Apr 2022. | DOI: 10.4103/jopp.jopp_4_22

12. Agarwal A, Nisha G, Chauhan A et al.. The Risk Posing Role of C-159T (rs2569190) Promoter Polymorphism of CD14 Gene in Pediatric Asthma of the North Indian Population. Journal of Pediatric Pulmonology 1(2):p 43-49, May–Aug 2022. | DOI: 10.4103/jopp.jopp_2_22.

13. Kaur K, Chauhan, A, Singh M, et al. M. Isoniazid versus Alternative Regimens for the Treatment of Latent Tuberculosis in Children: A Systematic Review and Network Meta-Analysis. Journal of Pediatric Pulmonology 1(2):p 55-63, May–Aug 2022. | DOI: 10.4103/jopp.jopp_21_22.

14. Bhatia R, Chauhan A, Kaur K, et al. (2022) Prevalence of Ear Infections in Children (0 to 15 Years) of India: A Systematic Review and Meta-Analysis. Int Arch Public Health Community Med 6:080. doi.org/10.23937/2643-4512/1710080.

15. Chauhan, A., Sahu, J.K., Singh, M. *et al.* Burden of Attention Deficit Hyperactivity Disorder (ADHD) in Indian Children: A Systematic Review and Meta-Analysis. *Indian J Pediatr* (2022). https://doi.org/10.1007/s12098-021-03999-9.

16. Singal K, Sharda S, Gupta A, et al. Effectiveness of Calcium Phosphate derivative agents on the prevention and remineralization of caries among children- A systematic review & meta-analysis of randomized controlled trials, Journal of Evidence-Based Dental Practice, 2022, 101746, ISSN 1532-3382, https://doi.org/10.1016/j.jebdp.2022.101746.

17. Sachdeva M, Sra HK, Agarwal A, et al. Effect of Probiotics on the Frequency of CD4+ T-Cells in HIV-Infected Children and Adolescents: A Systematic Review and Meta-Analysis of Randomized Controlled Trials. J Trop Pediatr. 2022 Feb 3;68(2):fmac006. doi: 10.1093/tropej/fmac006. PMID: 35137236.

18. Sandhu A*, Agarwal A*, Kaur P, Singh M, Sra H et al. "Evaluation of Tele-rheumatology during COVID-19 Pandemic in Asian Population: A Pilot Study. Int JTelemed Application. 2021 2021/09/30;2021:5558826.

19. Chauhan A, Singh M, Agarwal A, Jaiswal N, M Lakshmi PV, Singh M. Exploring the role of bacillus calmette-guerin vaccination in protection against COVID-19. Int JMycobacteriol. 2021 Oct-Dec;10(4):433-436. doi: 10.4103/ijmy.ijmy_179_21. PMID:34916464.

20. Meena J, Singh M, Agarwal A, Chauhan A, Jaiswal N. Prevalence of Hypertension among Children and Adolescents in India: A Systematic Review and Meta-Analysis.Indian J Pediatr. 2021 Apr 2. doi: 10.1007/s12098-021-03686-9. Epub ahead of print.PMID: 33796994.

21. Kumar R, Agarwal A, Sagwal S, Pant P, Jaiswal N, Chauhan A, Singh M. An Intervention of Telemonitoring and Structured Telephone Support for Children withBronchial Asthma: A Randomized Controlled Trial. J of Biosens Biomark Diagn 2018; 3(1): 1-5.(Non-Indexed)

22. Chauhan A, Agarwal A, Jaiswal N, Singh M. ChAdOx1 nCoV-19 vaccine for SARS- CoV- The Lancet. [doi: 10.1016/S0140-6736(20)32271-6]. 2020;396(10261):1485-6.Jaiswal N, Singh M, Agarwal A, Chauhan A, Jaiswal N. Palliative drug treatments for breathlessness in cystic fibrosis. Cochrane Database Syst Rev. 2020;4:CD011855.

23. Jaiswal N, Singh S, Singh M. Chikungunya Virus-Like Particle Vaccine. JAMA. 2020Sep 8;324(10):1008. doi: 10.1001/jama.2020.11845. PMID: 32897341

Future Prospects:

1. Implementation of Centre of Excellence in Telepathology after fund approval.

2. Initiation of new proposals in the Centre of Excellence in Artificial Intelligence (CoE-AI).

3. Proposal will be submitted for strengthening the CDSS system in the e-Sanjeevani 2.0 related to specialties.

4. Target to establish new Hubs for Teleconsultations for the state of Punjab, Himachal Pradesh and J & K.

5. Target to develop and upload at least 100 modules from RRC, PGIMER on the LMIS portal.

6. Implementation of NMCN activities in the 22 new medical colleges of RRC, North, PGIMER, Chandigarh.

7. Extension of Tele-Evidence facilities to other states as we are designated National Resource centre for Tele-Evidence.

8. Capacity building workshops for disseminating the knowledge of NMCN activities to all the 29 medical colleges associated with RRC (North), PGIMER, Chandigarh

9. Capacity building workshops for Artificial Intelligence with the help of MoHFW, G

Role & Responsibilities of RRC staff

1. **Project Lead & Co-Ordinator**
   a) Responsibly coordinate with MoHFW, C-DAC, hospitals & medical colleges.
   b) Monitoring the activities of centre of excellence for Artificial Intelligence with MoHFW & faculty of the Institute
   c) Monitoring of the overall activities of the Regional Resource Centre (North).
   d) Co-ordination with agency providing maintenance support to ensure execution of Service Level Agreement.
   e) Preparation and execution of Telemedicine Program schedule in co-ordination with the Nodal Officer and other stake holders such as faculty of the college/institute, Nodal Officer, RRC, other remote partners
   f) Monitoring of Records such as Attendance Register, Logbook, Stock Inventory, Complaint Logs any other records as laid down in the Standard Operation Protocol etc.
   g) Plan site visits and designs a future pipeline action plan for telemedicine activities which include conferences, workshops, site visits etc.
   h) Assists in coordinating clinical activities with participating specialists, evaluates scopes and other peripheral devices for clinical appropriateness, provides guidance on potential uses of Telemedicine and outlines the future opportunities.
   i) Helped in the development of digital Infrastructure in AIIMS Rishikesh
   j) Supervision of the work of other RRC staff.
   k) Other duties, as assigned by Nodal Officer, NRC

2. **Consultant (Non- Medical) Health informatics/Web Site Designer:**

   a) Responsible for Co- ordinating with heads of department and faculty of the institute and other medical colleges in the development of modules for LMIS.

   b) Seeking approval of module and their lessons, PPTs and recordings from the NRC, AIIMS New Delhi.

   c) Assigning the NMC based competency numbers to the topics from the competency based undergraduate curriculum.

   d) Managing and coordinating the Claimant of Honorarium for author and Reviewers of RRC North and its medical colleges with NRC AIIMS Delhi.

   e) Has recorded 5 lessons on EBM and prioritization modules uploaded on LMIS.

   f) Organizing the workshops/Conferences conducted by RRC North

   g) Research & Development on m-Health & e-Health.

   h) Preparing monthly and yearly reports of RRC, North

   i) Co ordinating with the 22 new medical colleges in assigning nodal officers and disseminating NMCN guidelines and activities.

   j) Development and dissemination of evidence-based health information.

   k) Maintaining the administrative files of RRC North

   l) Resource faculty for teaching health informatics software's such as PubMed, EMBASE, RevMan, Covidence, STATA.

   m) Other duties, as assigned by Nodal Officer, NRC

3. **Associate Consultant**

   a) Responsible for collection of information on telemedicine & e-Health related information.

   b) Provide administrative assistance to Nodal Officer, RRC for preparation of DPR, EOI, tender documents etc.

   c) Preparation and execution of Telemedicine Programme schedule in co-ordination with the Nodal Officer and other stake holders such as faculty of the college/institute, Nodal Officer, RRC, other remote partners.

   d) Involved in execution of postgraduate classes, PhD viva/DC, MD/DM exams, you tube sessions, workshops, CPCs, CMEs, conferences, Orations, foundation day, Research day and other tele educational activities through different online platforms (Zoom, G meet, Webex, YouTube, Microsoft teams, Bharat VC, etc

   e) Management of existing project initiatives of PGIMER.

f) Compilation of the information and presentation to the Nodal Officer.

g) Maintenance and upkeep of the digital library infrastructure & information system.

h) Provide content material to the trainees, diploma students, researchers and faculty

i) Helped in the development of digital Infrastructure in AIIMS Rishikesh

j) Other duties, as assigned by Nodal Officer, NRC.

4. **Telemedicine Infrastructure & Network Administrator**

a) Supervision of telemedicine technical infrastructure and the facility ensuring its smooth functioning.

b) Preparation and execution of Telemedicine Programme schedule in co-ordination with the Nodal Officer and other stake holders such as faculty of the college/institute, Nodal Officer, RRC, other remote partners

c) Involved in execution of postgraduate classes, PhD viva/DC, MD/DM exams, you tube sessions, workshops, CPCs, CMEs, conferences, Orations, foundation day, Research day and other tele educational activities through different online platforms (Zoom, G meet, Webex, YouTube, Microsoft teams, Bharat VC, etc

d) Reports of technical performance status and daily network testing Minutes of all meetings convened by the Nodal Officer

e) Monitoring the web site and e classroom

f) Helped in the development of digital Infrastructure in AIIMS Rishikesh

g) Other duties, as assigned by Nodal Officer, NRC

5. **Content Developer**

a) Operation of medical education content development facility

b) Medical video capture, editing and voice over, still photography as desired

c) Preparation of standard / animated power point presentation material

d) Operation of hardware and software relating medical education content development

e) Operation of web-based tools for web enabled content

f) Any other work assigned by Nodal Officer, NRC

g) Any other work assigned by Nodal Officer, RRC / faculty members / laid down in the SOP.