



# CHOITHRAM COLLEGE OF NURSING

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Choithram Hospital & Research Centre Manik Bagh Road, Indore 452014 (M.P.)



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## 2.3.3 Teachers use ICT-enabled tools for effective teaching and learning process including online e-resources

### (b) Report with photos using ICT Tools

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## Report: Teachers using ICT tools

2018-19

The year 2018-19 marked a significant period in the integration of ICT (Information and Communication Technology) tools into nursing education. This report presents the utilization of ICT tools by nursing teachers during this period, focusing on key technologies and their impact on teaching, learning, and clinical preparation.

Teachers use ICT (Information and Communication Technology) tools in various ways to enhance teaching and learning experiences. Following are some common uses:

1. **For Instructional Delivery:** Teachers used presentation software (like PowerPoint or Google Slides) to deliver lessons with multimedia elements such as images, videos, and animations. This makes lessons more engaging and helps in better understanding of concepts.
2. **ICT as an Online Resources-** Teachers used the internet to access educational websites, digital libraries, and online databases for research and to gather resources for lesson planning.
3. **Communication-** Use of ICT tools such as email, messaging apps, and online platforms (like Google Classroom) enables teachers to communicate with students, parents, and colleagues effectively. They shared announcements, assignments, and feedback instantly in the groups.
4. **Assessment and Feedback-** Online quizzes, tests, and assessments (using tools like Google Forms) allowed them to assess students' understanding quickly. They also provide immediate feedback through digital platforms.
5. **Collaboration-** Teachers used collaborative tools (such as Google Docs, spread sheets) to work together on lesson plans, share data and resources, and collaborate with other educators globally.
6. **Professional Development-** ICT tools support teachers in ongoing professional development through online courses, webinars, and virtual workshops. They stay updated with the latest educational trends and research.
7. **Personalized Learning-** with ICT tools, teachers cater to individual student needs by providing differentiated instruction, adaptive learning platforms, and personalized feedback.
8. **Creativity and Innovation-** ICT tools encourage teachers to explore new ways of teaching through digital case studies and discussions, interactive simulations, and other innovative methods that enhance learning experiences.

## Impact and Benefits







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**Enhanced Accessibility-** ICT tools provided nursing students with 24/7 accesses to educational resources and learning materials, promoting flexible learning opportunities.

**Improved Collaboration-** Collaboration tools facilitated interdisciplinary teamwork among nursing faculty and healthcare professionals, promoting knowledge exchange and collaboration in healthcare education.

### Challenges Faced- Challenges Faced

- **Technical Issues:** Frequent technical problems and lack of adequate technical support occasionally disrupted classes and training sessions.
- **Training Needs:** Some faculty members required additional training to use advanced ICT tools effectively.
- **Resource Constraints:** Limited availability of simulation and interactive whiteboards hindered widespread adoption.
- **Resistance to Change:** A few teachers exhibited reluctance to adopt new technologies due to unfamiliarity or comfort with traditional methods.

### Recommendations

- **Enhanced Training:** Provide regular training sessions for faculty to improve their proficiency in using ICT tools.
- **Technical Support:** Establish a dedicated technical support team to address and resolve ICT-related issues promptly.
- **Infrastructure Improvement:** Invest in upgrading the technological infrastructure, including expanding access to simulation tools and interactive whiteboards.
- **Encourage Adoption:** Foster a culture of innovation by showcasing successful use cases and benefits of ICT tools to encourage broader adoption.
- **Faculty Development-** Providing ongoing training and professional development opportunities for nursing faculty to enhance their ICT skills and integrate innovative teaching methodologies.
- **Evaluation and Assessment-** Continuously evaluating the effectiveness of ICT tools in achieving educational outcomes and student learning objectives.

The use of ICT tools by nursing teachers in the year 2018-19 demonstrated significant strides in enhancing nursing education through technology. These tools facilitated interactive learning experiences, simulated clinical environments, and prepared students for the evolving healthcare landscape. Moving forward, continued investment in ICT infrastructure, faculty development, and innovative pedagogical approaches will be essential in advancing nursing education and improving healthcare outcomes. Overall, the integration of ICT tools empowers teachers to create dynamic, interactive, and student-centered learning environments that prepare students for the challenges of the digital age. This report underscores the transformative impact of ICT tools





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on nursing education in 2018-19 and highlights their role in preparing future nurses to meet the challenges of a digitally-driven healthcare environment.

**Conclusion-** The use of ICT tools by teachers in the Nursing College during the academic year 2018-19 has had a positive impact on teaching and learning. While there are challenges to address, the benefits of enhanced engagement, flexibility, and resource accessibility are significant. By addressing the identified challenges and implementing the recommended strategies, the college can further optimize the use of ICT tools and continue to improve educational outcomes.

**Acknowledgments-**

We acknowledge the efforts of all faculty members and the IT support team for their contributions to integrating ICT tools into the teaching process. Their dedication has been instrumental in achieving the progress outlined in this report.

  
Coordinator

  
Principal







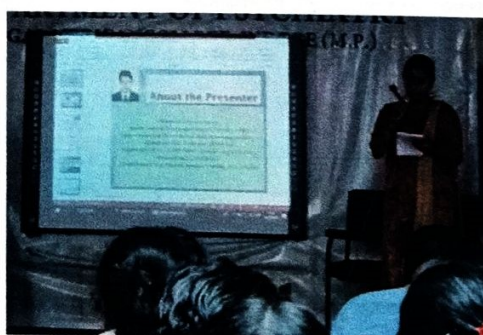
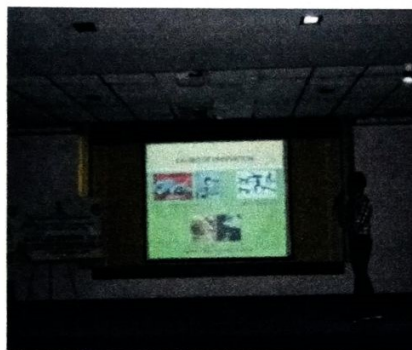
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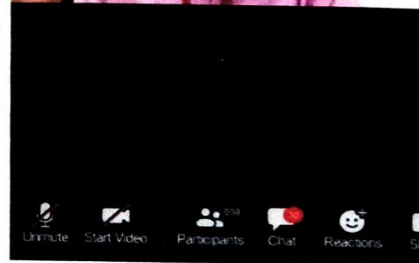
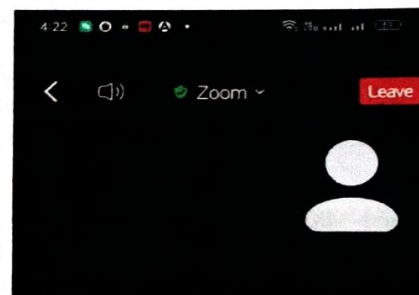
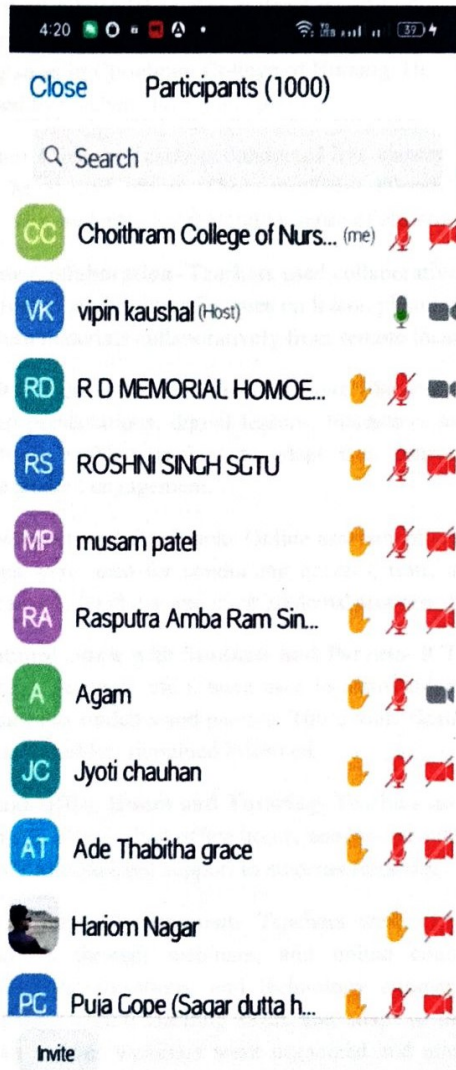
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## Report- Teachers using ICT tools

2019-20

During the COVID-19 pandemic, teachers around the world relied heavily on ICT (Information and Communication Technology) tools to maintain educational continuity and support remote learning so as in Choithram College of Nursing. Here are some specific ways in which ICT tools were used by teachers during this period-

1. **Virtual Classes-** Teachers conducted live classes using video conferencing tools like Zoom, Google Meet, and others. These platforms allowed teachers to deliver lessons in real-time, interact with students, and maintain a sense of classroom community despite physical distance.
2. **Online Collaboration-** Teachers used collaborative tools such as Google Docs, and Microsoft One Drive, to work with colleagues on lesson planning, share educational resources, and develop curriculum materials collaboratively from remote locations.
3. **Digital Content Creation-** ICT tools like PowerPoint, and Canva, were used to create engaging presentations, digital lessons, interactive multimedia content and educational videos. These tools enabled teachers to adapt their instructional materials for online delivery and enhance student engagement.
4. **Assessment and Feedback-** Online assessment tools such as Google Forms, and online quiz platforms were used for conducting quizzes, tests, and assessments remotely. Teachers could provide timely feedback and track students' progress digitally.
5. **Communication with Students and Parents-** ICT tools such as email, messaging apps (e.g., WhatsApp, Telegram etc.), were used to communicate announcements, assignments, feedback, and updates to students and parents. These tools facilitated ongoing communication and ensured that all stakeholders remained informed.
6. **Virtual Office Hours and Tutoring-** Teachers used video conferencing tools and scheduling platforms to offer virtual office hours, one-on-one tutoring sessions, and small group discussions to provide personalized support to students remotely.
7. **Professional Development-** Teachers were engaged in online professional development opportunities through webinars, and online courses offered by educational institutions, professional organizations, and technology companies. These opportunities helped teachers enhance their digital teaching skills and adapt to new instructional methods. During COVID lockdown various webinars were organized and attended by the CCON faculty which are as follows-





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- Online International Webinar was organized by CCON on 18/6/2020 on the topic- **Role of ICU Nurse in Current Scenario**. Expert of the webinar was **Prof Girish Devagi**, Faculty Department of Nursing, Bule Hora University College of Health Science, Hora, Ethiopia.

- Choithram College of Nursing in collaboration with Vidhyanta Skill Institute, organized a skill based **E-learning course of 10 hrs** dated 19th -23rd June 2020. The course was successfully completed by total 83 students ie. 72 B.Sc. Nursing Final and 13 M.Sc. Nursing final year students participated in the program and awarded with certificates. The Course was Co-ordinated by Mr Jaideep Herbert, Director Vidhyanta Skill Institute and Prof. Shreeja Vijayan from Choithram College of Nursing with Prof. Prachi Awasthi & Mrs Saranya S. Assistant Professor.

Key Features of course-

- Scenario Based Course
- Practical approach during delivery of care
- Follow WHO/CDC guidelines and protocols
- Learn to manage situation
- Infection control and BMW management.



- National Webinar on **-PUBLICATION ETHICS & BIBLIOMETRICS** on 14th July 2020 at 11-30 am.



- International Webinar on the topic- **"COMMUNICATION SKILLS & EMOTIONAL INTELLIGENCE"** on July 17th 2020 @11-30 (IST) Speaker of the webinar was Dr Rennie Joshua from Dubai Hospital Authority, Dubai.

- Choithram College of Nursing, Indore has organized an **International Webinar on "LEADERSHIP & TACTICS"** on 24th July 2020 at 12-30 noon (IST) MS SAINO THOMAS, AGM Nursing, Head Of Department- Nursing Clinics and Hospitals at Aster DM Health Care, UAE & Bahrain was the expert speaker of the webinar.







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- Choithram College of Nursing, Indore has organized **National webinar series on "STRENGTHENING HEALTH CARE SYSTEM AT GRASS ROOT LEVEL- ROLE OF COMMUNITY HEALTH WORKERS"** from 27th July 2020 to 31st JULY 2020.

1. Family planning 2020 by Dr.Sunita Lawrence (Principal, Pragyan College of Nursing, Bhopal) ,
2. Screening of Common Health Issues, Early Identification, Management & Referral at Community Level by Dr. Sushma Kumari Saini (Faculty, National Institute of Nursing Education, PGIMER, Chandigarh on 29<sup>th</sup> July 2020.
3. Work Management & Administration, Financial Management, Accounts and Computing at Sub Centers by Mr.Pratik Modi (Program Officer,Jhpiego ).

- **National Webinar on- "Professional Development- Nurse Entrepreneur, Informatics and Quality Consultant"** - A way forward was organized by Choithram College of Nursing on 25th July 2020, Saturday at 11am to 12 Noon (IST). Ms. Anjana Menon,Senior Technical Advisor,Creaex Health Care Consultancy & Ms. Lisha sherly Babu,Health care consultant are our guest speakers for the webinar.



CCON has organized **National Webinar on the topic- "Compassion & Professional Success"** by Dr.Roja Princy (Professor, PGI CON, Bhilai, CG) on 1st August 2020 at 11-00am IST.







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Choithram College of Nursing has organized an **International Webinar on- "Infusion Nursing Practices"** on – 07/08/2020 at 10-30 am to 11-30 am.

**International Webinar on - Current Clinical Challenges Faced by Nursing Fraternity** on 8<sup>th</sup> August 2020 @11-30am-1-00pm. Speakers of the webinar were 1. Ms.Shameena Beegom- Clinical education specialist, Cleveland clinic Abu Dhabi , Abu Dhabi, UAE and 2.Ms.Bindu George. Head of Nursing.AIG Hospitals, Gachibowli, Hyderabad



**8. Adaptation of Teaching Strategies-** Teachers adapted their teaching strategies to suit remote learning environments, incorporating asynchronous learning activities (e.g., recorded lectures, online readings) and synchronous learning opportunities (e.g., live discussions, virtual labs) using ICT tools to meet the diverse needs of their students.

**9. Support for Special Needs and Inclusive Education-** ICT tools were used to provide accommodations and support for students with special needs and promote inclusive education practices in virtual classrooms. Teachers utilized assistive technology tools and resources to ensure equitable access to learning opportunities for all students.

In summary, the COVID-19 pandemic highlighted the critical role of ICT tools in education, enabling teachers to innovate, adapt, and maintain educational continuity during challenging times. The widespread adoption of these tools fostered collaboration, engagement, and personalized learning experiences for students in remote and hybrid learning environments.







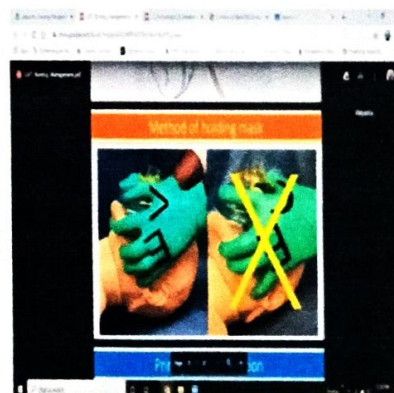
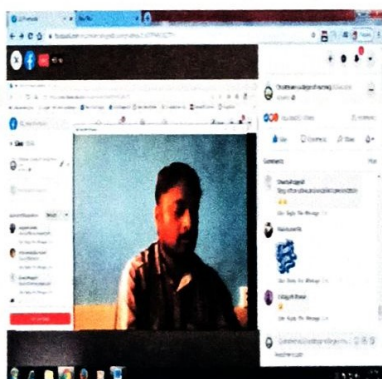
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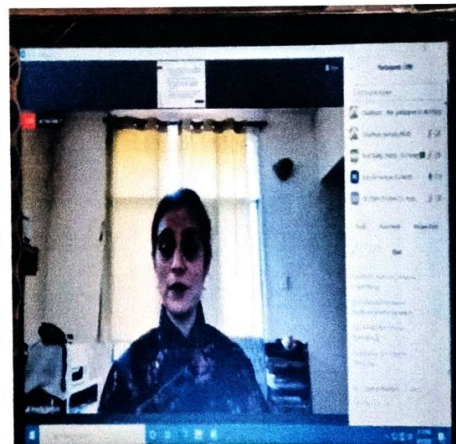
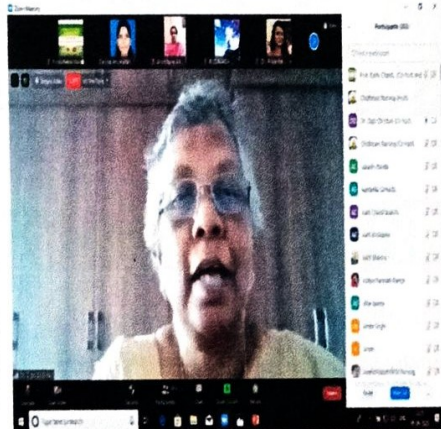
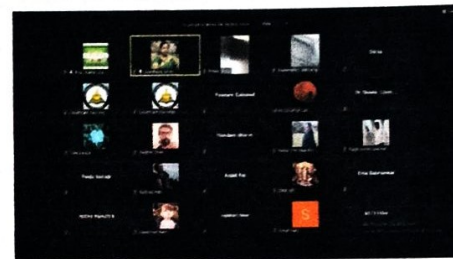
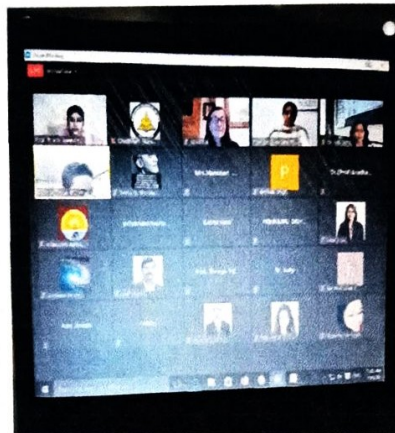
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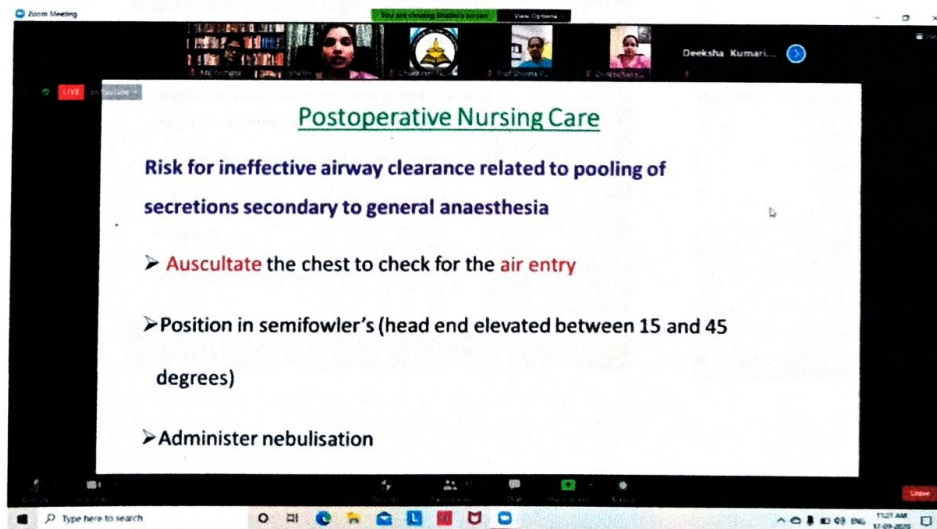
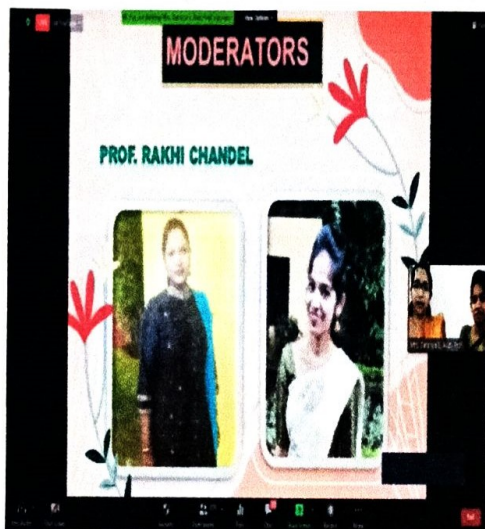
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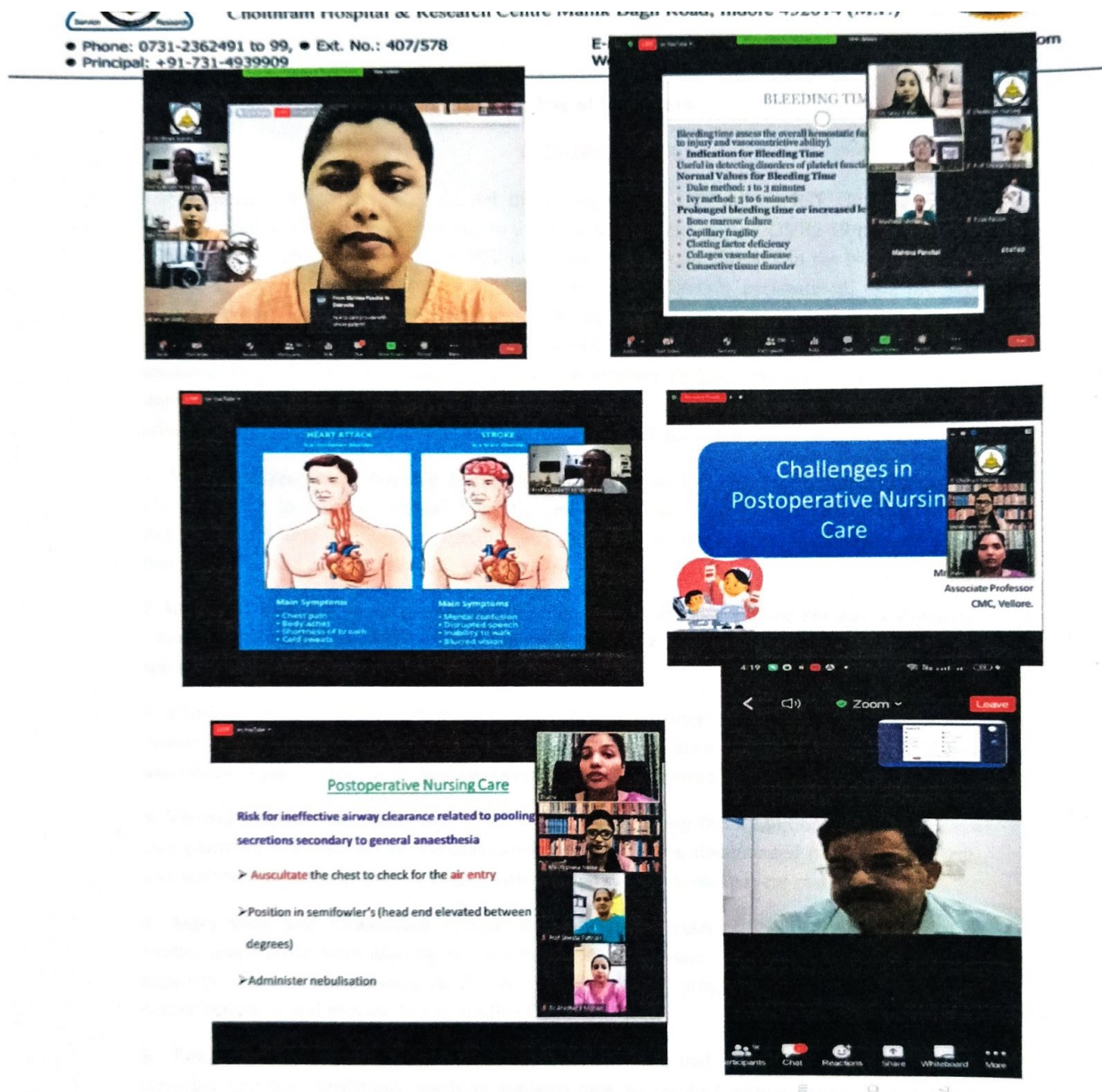
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*[Signature]*  
Coordinator







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## Report on Use of ICT Tools

2020-2021

The academic year 2020-21 continued to see significant reliance on ICT (Information and Communication Technology) tools due to the ongoing impacts of the COVID-19 pandemic. This report provides an overview of how ICT tools were utilized by teachers in the Nursing College during this period, evaluating their effectiveness, the challenges encountered, and providing recommendations for future improvements. During 2020-2021, nursing faculty faced unique challenges due to the COVID-19 pandemic, which significantly impacted traditional teaching methods. The use of ICT (Information and Communication Technology) tools by nursing faculty during this period was instrumental in adapting to these challenges and ensuring quality education for nursing students. Here are ways in which ICT tools were utilized:

**1. Virtual Classrooms-** Nursing faculty utilized platforms like Zoom, Microsoft Teams, and Google Meet to conduct virtual lectures, seminars, and clinical simulations. These tools facilitated real-time interactions, discussions, and demonstrations, allowing faculty to deliver theoretical content and engage students remotely.

**2. Recorded lectures, reading materials** facilitate online discussions, and manage assignments. This provided a structured framework for nursing faculty to deliver and assess course content remotely.

**3. Clinical Skills Training-** Nursing faculty used video tutorials and instructional videos to demonstrate clinical skills such as wound care, medication administration, and patient assessment. Platform like YouTube was leveraged to share instructional content with students.

**4. Virtual Patient Care Planning-** ICT tools enabled nursing faculty to conduct virtual patient care planning sessions, where students developed care plans, documented patient assessments, and collaborated on treatment strategies using digital platforms and patient case studies.

**5. Assessment and Evaluation-** Online assessment tools such as Quizzes in LMSs, Google Forms, and Kahoot were used by nursing faculty to administer quizzes, tests, and assignments remotely. These tools allowed faculty to monitor student progress, assess understanding of course concepts, and provide timely feedback.

**6. Telehealth and Telemedicine-** Nursing faculty integrated tele health and telemedicine concepts into the curriculum, teaching students how to conduct virtual patient consultations, assess remote patient vital signs, and communicate effectively with patients and healthcare teams via telecommunication platforms.





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**7. Professional Development-** Faculty engaged in online professional development workshops, webinars, and conferences focused on integrating ICT tools into nursing education, enhancing online teaching strategies, and leveraging technology to improve student learning outcomes.

**8. Support for Student Well-being-** Nursing faculty used communication tools like email, messaging apps, and virtual office hours to provide academic support, mentorship, and guidance to students. They also utilized ICT tools to promote student engagement, address concerns, and foster a sense of community among students in virtual environments.

Overall, the use of ICT tools by nursing faculty during 2020-2021 exemplified their adaptability and innovation in navigating the challenges posed by the pandemic. These tools not only facilitated the delivery of quality nursing education but also prepared students for the evolving healthcare landscape influenced by digital health technologies.

**Conclusion-** The utilization of ICT tools by teachers in the Nursing College during the 2020-21 academic year played a crucial role in maintaining educational continuity amidst ongoing challenges. While the tools facilitated effective teaching and learning, addressing the identified challenges and implementing the recommendations will help optimize ICT usage and improve the overall educational experience.

## Acknowledgments

We extend our appreciation to all faculty members for their adaptability and dedication in utilizing ICT tools during the academic year. We also thank the IT support team for their continued assistance and commitment to ensuring the effective implementation of technology in education.

  
Coordinator

 Principal







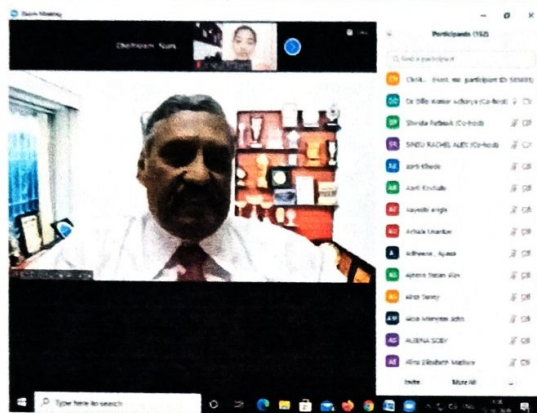
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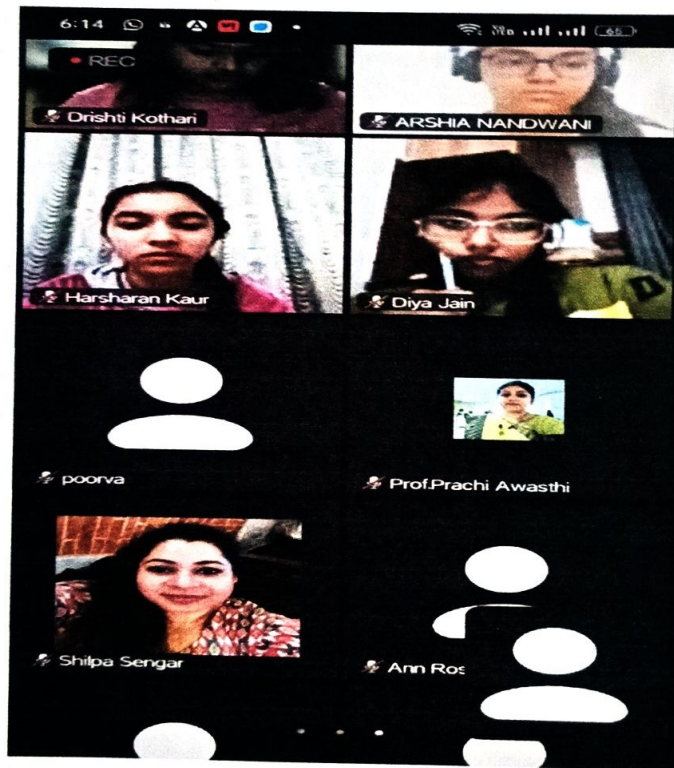
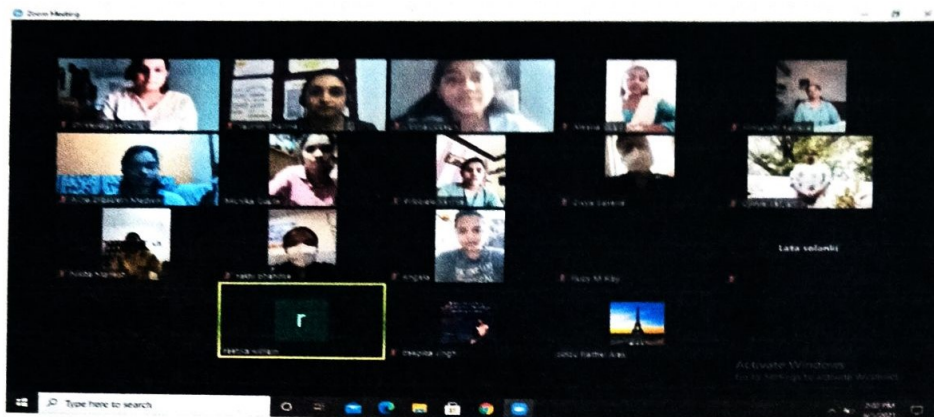
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## Report on Use of ICT Tools

2021-22

In the academic year 2021-2022, nursing faculty at Choithram College of Nursing continued to leverage ICT (Information and Communication Technology) tools to enhance teaching, learning, and clinical practice preparation for nursing students. Here are some specific ICT tools that were commonly used:

**1. Virtual Classrooms and Video Conferencing Platforms-** Tools like Zoom, Microsoft Teams, Google Meet, and Webex were utilized for conducting live virtual lectures, seminars, and discussions. These platforms facilitated real-time interactions between faculty and students, enabling dynamic teaching sessions and fostering engagement despite physical distance.

**2. Clinical Skills Training Videos-** Nursing faculty continued to create and utilize instructional videos and tutorials to demonstrate clinical skills and procedures. Platform like YouTube, was used to share the resources with students, supplementing virtual and in-person clinical education.

**3. Telehealth and Telemedicine Tools-** Given the ongoing importance of tele health and telemedicine in healthcare delivery, nursing faculty integrated tools such as virtual patient consultation platforms, tele health simulation software, and virtual visit platforms into the curriculum. These tools enabled students to practice conducting virtual patient assessments, consultations, and patient education sessions.

**4. Online Assessment Tools-** Nursing faculty continued to use online assessment tools such as quizzes and tests embedded within Google Forms, zoom and Poll Everywhere to evaluate student understanding of course material, monitor progress, and provide timely feedback. These tools supported both formative and summative assessment practices.

**5. Collaborative Tools-** Tools like Google Workspace (Google Docs, Sheets, Slides), Microsoft Office 365 (Word, Excel, PowerPoint) facilitated collaborative lesson planning, curriculum development, and group projects among faculty members and students.

**6. Professional Development Resources-** Faculty engaged in online professional development opportunities including webinars, virtual conferences, and workshops focused on integrating ICT tools into nursing education, enhancing online teaching strategies, and staying updated on advancements in nursing practice and education technology.

**7. Communication and Support Platforms-** Communication tools such as email, messaging apps, virtual office hours through video conferencing, and discussion forums were used by faculty to provide academic support, mentorship, and guidance to students. These platforms also





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facilitated communication among faculty members and promoted a sense of community within the nursing program.

The integration of these ICT tools in nursing education during 2021-2022 reflects ongoing efforts to adapt to changing educational environments and prepare future nurses with the skills needed for contemporary healthcare practice.

**Conclusion-** The utilization of ICT tools by teachers in the Nursing College during the 2020-21 academic year played a crucial role in maintaining educational continuity amidst ongoing challenges. While the tools facilitated effective teaching and learning, addressing the identified challenges and implementing the recommendations will help optimize ICT usage and improve the overall educational experience.

## Acknowledgments

We extend our appreciation to all faculty members for their adaptability and dedication in utilizing ICT tools during the academic year. We also thank the IT support team for their continued assistance and commitment to ensuring the effective implementation of technology in education.

  
Coordinator

  
Principal







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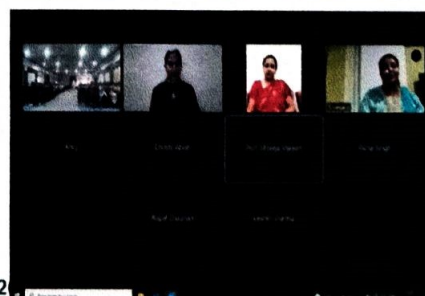
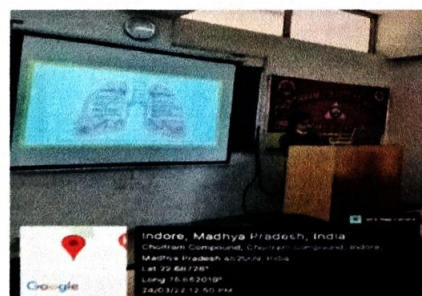
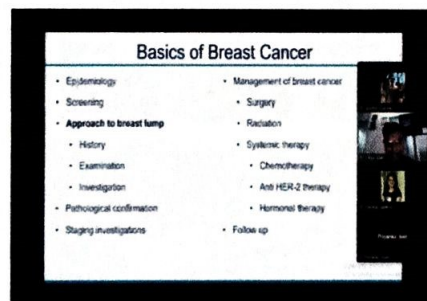
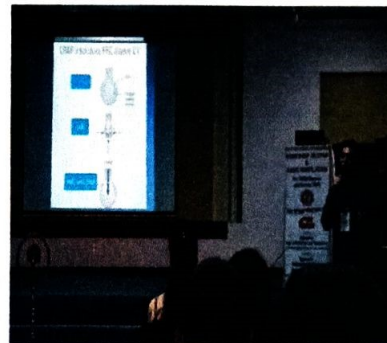
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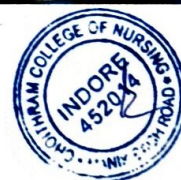
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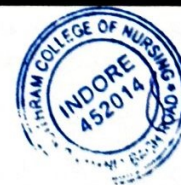
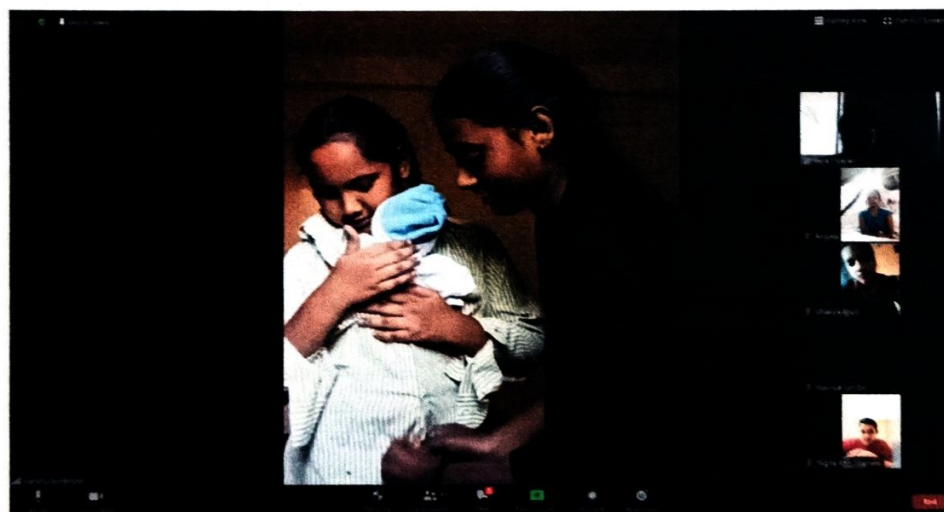
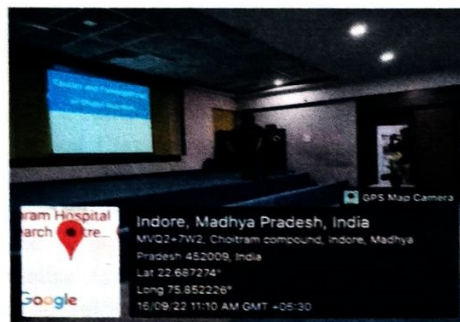
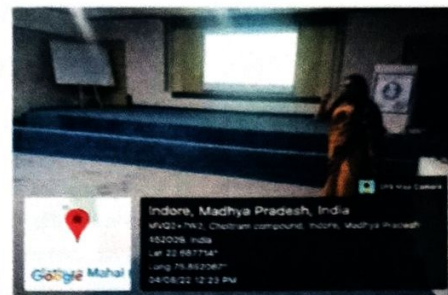
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## Report on Use of ICT Tools

2022-23

The academic year 2022-23 marked a period of continued adaptation and integration of ICT (Information and Communication Technology) tools in the Nursing College, building on the experiences from previous years. This report reviews the extent and impact of ICT tool usage by faculty members during this period, evaluates the effectiveness of these tools in enhancing teaching and learning, identifies challenges encountered, and provides recommendations for future improvements. The year 2022-23 saw continued reliance and innovative use of ICT (Information and Communication Technology) tools by nursing teachers worldwide. These tools have been instrumental in adapting nursing education to evolving challenges and opportunities, including the ongoing integration of digital health technologies into healthcare practice.

### Key ICT Tools Utilized

- 1. Virtual Classrooms and Video Conferencing Platforms-** Zoom, WebEx, Google Meet- these platforms remained crucial for conducting virtual lectures, seminars, and clinical simulations. Nursing teachers utilized features like breakout rooms for small group discussions, screen sharing for presentations, and chat functions for real-time interaction.
- 2. Online Assessment Tools-** Quizzes in Google Forms, Online assessment tools were used to evaluate student learning outcomes, monitor progress, and provide feedback. Nursing teachers employed a variety of question formats and assessment types to gauge comprehension and application of nursing knowledge.
- 3. Collaborative Tools-** Collaborative tools like Google Workspace, Microsoft Office 365 facilitated teamwork among nursing faculty for lesson planning, curriculum development, and research projects. These platforms enabled real-time document editing, virtual meetings, and shared project management.
- 4. Professional Development Resources-** Nursing faculty participated in online professional development activities like Webinars, Virtual Conferences focused on ICT integration in nursing education, online teaching strategies, and advancements in healthcare technology. These resources enhanced teaching effectiveness and kept faculty updated on industry trends.
- 5. Communication and Support Platforms-** Communication tools like Email, Messaging Apps, were used to maintain contact with students, provide academic support, and foster a sense of community within the nursing program. Virtual office hours and discussion forums facilitated interaction and collaboration outside of class.

The use of ICT tools by nursing teachers in the year 2022-23 exemplifies their adaptability and commitment to enhancing nursing education through digital innovation. These tools have not only facilitated remote learning and clinical simulations but also prepared nursing students for a technology-driven healthcare environment. Moving forward, continued integration and







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exploration of ICT tools will be essential in meeting the evolving needs of nursing education and healthcare practice.

## Challenges Faced

- Technical Issues: Persistent technical problems, including connectivity issues and software malfunctions, affected the smooth delivery of online classes and virtual labs.
- Faculty Training Needs: While many faculty members adapted well, some required additional training to fully leverage advanced ICT tools and platforms.
- Student Engagement: Maintaining consistent engagement and motivation in online settings remained challenging, with some students struggling to stay focused during virtual sessions.
- Resource Allocation: Ensuring equitable access to necessary technological resources and tools for all students continued to be a challenge.

## Recommendations-

- Further establishment, exploration and integration of emerging technologies such as augmented reality (AR) and virtual reality (VR) in nursing education.
- Continued investment in faculty development programs focusing on ICT skills and online teaching methodologies.
- Collaboration with healthcare institutions to ensure alignment between educational outcomes and industry demands in digital health.

This report highlights the transformative impact of ICT tools on nursing education and underscores their role in preparing future nurses for success in a rapidly changing healthcare landscape.

The use of ICT tools by teachers in the Nursing College during the 2022-23 academic year has significantly contributed to enhancing teaching and learning experiences. The continued integration of these tools has facilitated flexible, engaging, and effective education despite ongoing challenges. By addressing the identified challenges and implementing the recommendations, the college can further optimize the use of ICT tools and continue to improve educational outcomes.

## Acknowledgments

We extend our appreciation to all faculty members for their dedication and adaptability in utilizing ICT tools throughout the academic year. Special thanks also go to the IT support team for their invaluable assistance in ensuring the effective implementation of technology in education.

  
Coordinator



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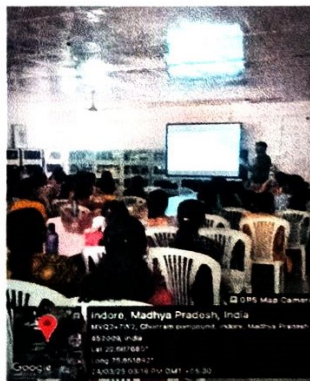
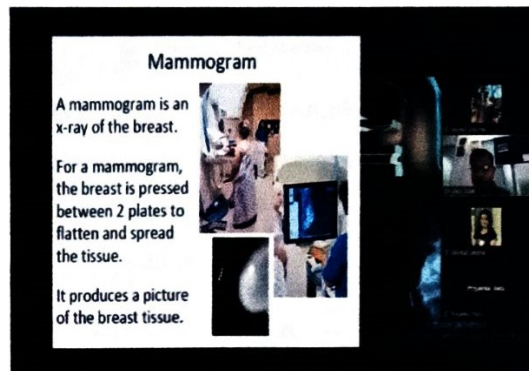

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