

1. Title of the practice: Providing comprehensive COVID care: Preventive, Diagnostic, Therapeutic and Post treatment rehabilitation.

2. Objectives of the practice:

Due to an unprecedented COVID-19 pandemic, all the academic as well as patient care activities were severely disrupted. We not only had to cope with that but being health professional institute had to plan and evolve for comprehensive COVID care. We started with following objectives.

- Spreading awareness about this pandemic in the society by insisting on COVID appropriate behavior, do's and don'ts during these crucial times.
- Establish a comprehensive COVID care facility with testing and treating facilities.
- Train the manpower towards this emergency situation.
- Study the outcome of the disease& study the scientific literature to develop SOP's for effective management.

3. The Context:

The COVID-19 Pandemic disrupted our lives like never before. It was sudden, severe and there was very little time for any preparation to deal with this emergency. We at the University were early adaptors. The IQAC played a major role in coordinating the efforts for spreading the awareness about the disease and educating the community particularly about hand hygiene, masking, distancing through its NSS unit volunteers and staff. The IQAC also coordinated the faculty staff training by arranging expert teachers so as to develop guidelines for COVID care. Very soon with the involvement of all we could establish a comprehensive COVID care facility and ramp up the infrastructure. After a couple months the post COVID rehabilitation center was also established. Thus as the need arose Institution rapidly rose to the need, built capacity and established centers for COVID care.

4. The Practice:

KAHER has a big hospital set up of about 4000 beds with modern diagnostic and therapeutic facilities. We approached the problem in a systematic way.

Preventive:

- KAHER a Health Science University that has been providing commendable health profession education and facilities in both traditional and newer disciplines had much to offer during pandemic to the people of Belgaum and the neighboring areas.

- The colleges of Ayurveda and Homoeopathy were instrumental in providing traditional preventive care concepts. The immunity boosting preparations and medications were provided to the public.
- College of Homeopathy distributed Arsenic Alba, a immunity booster.
- The Expert faculty bought out awareness campaigns/ pamphlets.
- NSS volunteers carried out distribution of masks, sanitizers etc.
- They actively contributed by making posters, charts and other informative video's.
- Venudhwani, community radio station of the campus held radio programmes to bring awareness on importance of hygiene and other precautionary measures in villages and nearby communities.
- The radio station also conducted a unique campaign, a live show called "Call and solve". Callers could express their issues related to the business, problem following which immediately a team would work on the issue and within 15 hours the task would be solved.
- Manpower training and capacity building and evidence based practice was other aspect that started immediately.

Testing:

- Additional equipment's were procured, testing facilities were ramped up. The NABL accredited microbiology lab of medical college started with RT-PCR testing for COVID.

Treating:

- The hospital and all constituent colleges rose to the problem and brought about certain changes in the patient care.
- Implemented government guidelines for management of COVID infected patients.
- A flu clinic was established. All patients were screened and appropriate testes were recommended wherever required.
- Since isolation is the key in breaking the chain of infection, the hospital established an isolation COVID ward that started to provide tireless 360⁰ COVID care and 24x7 operation with dedicated healthcare professionals. The isolation ward has oxygen supply and a dedicated ICU setup for these patients.

Post COVID rehabilitation:

Regular counseling, physiotherapy, regular check up and follow up were features of this.

5. Evidence of success:

Evidence of success at KAHER has not only been about outcome but also about the process of handling the situation. The situation handling was both in terms of academic and patient care.

- IQAC in collaboration with NSS units had organized a number of online outreach activities that helped to educate people about the pandemic and its transmission.
- Maximum number of students participated in these events.
- Helping hands were lent to residents of old age homes, destitute.
- The hospital and constituent colleges were able to formulate SOP's /guidelines within shortest period of time.
- The lab has carried out 22796 of RT-PCR tests so far, out of which 4608 were positive.
- From the start of pandemic till December 2020, 1341 patients were admitted. Complete diagnostic and therapeutic support, compassionate care and excellent nutrition have helped 1126 patients to overcome COVID infection and get back to life healthy. From January 2021 to date 484 patients were admitted out of which 247 were treated and discharged. Applauds to our dedicated emergency care physicians, pulmonologists, on duty doctors, post care nurses and support staff that have handled the situation and eventualities, the mortality rate was much less as compared to the national projected numbers.

6. Problems encountered and Resources required:

- Sudden and severe exposure to outbreak
- Limited knowledge about the disease in the beginning
- Lockdown situation with limited resources
- Faculty training and willingness to work in COVID areas.
- Many of faculty and frontline workers tested positive for the infection.
- Elements of fear and un certainty, because no cure. Only preventive, supportive and rehabilitative treatment.
- Negative image of death and despair in media particularly electronic media.
- Acceptance of the situation by patients and families.

7. Notes (optional):

As the pandemic was fast moving, so were the efforts at KAHER to address it. The district advisors and state government applauded the efforts and indispensable role of health care professionals in dealing with this calamity.

1. Title of the Practice:

Facilitating e-content development for strengthening ICT enabled teaching learning practices in the institution.

2. Objectives of the practice:

The COVID created crisis obliged KAHER, to adapt to online teaching as an alternative to face to face teaching learning. Our past experience also has shown that blended method of T-L enhances student engagement and deep learning. Hence our immediate action was to switch to online mode of teaching and to strengthen the existing e content resources with following objectives:

- To ensure that the academic training does not get affected because of pandemic and students being off campus.
- Make the learning more students centric by developing relevant e-content.
- Making teachers undergo online training on use of various synchronous and asynchronous methods of online teaching.
- Innovation and creativity in developing e-content by using multi media and other resources.
- To convert the challenge into opportunity to strengthen the e-content resources.

3. The Context:

ICT enabled T-L practice is a very powerful tool of education. These methods of instruction became more helpful and started getting widely used because of COVID pandemic. Further there is evidence that blended learning and flipped classroom concepts help in meaningful engagement of students. The class time can be appropriately used for problem solving, discussions/understanding difficult concepts thereby fostering learning. The COVID pandemic gave us opportunity to develop relevant e content and to strengthen the available e-content resources. Our experience in the past while we implemented blended learning had shown that ICT can offer great opportunities for creating, storing, disseminating and communicating to students. And also online teaching was inevitable due to pandemic situation.

4. The Practice:

- Along with education units of all constituent units, University Department of Education for Health Professions, IQAC conducted meetings to chalk out online mode of academic activities and various platforms available.
- All 9 constituent colleges were able to carry on with routine teaching by using online mode with help of e-contents developed.

- Case scenarios were developed to compensate for chair side/ bed side case based learning
- Laboratory techniques being video graphed so that the techniques can be emphasized after the student rejoin the colleges

5. Evidence of success:

- Average 92% teachers are trained in technology based teaching and are capable of developing and delivering e-contents.
- Keeping in mind the paradigm shift KAHER had already developed ample of e-learning resources. COVID 19 pandemic gave enough opportunities for the teachers and students to use these resources to facilitate teaching learning activities.
- E-content developed by the faculty was hosted on institutional website, LMS. This has helped the students to grow and develop a broad range of competences and skills.
- Competencies that needed to be learnt were identified.
- Relevant content in the form of notes, PPT, slides, videos, animation were collected. The contents were scrutinized.
- Short videos, PPT's, online repository of learning resources was created.
- Feedback obtained about the process of developing e-content, its utility by the staff and students.
- The recourses were hosted on college website, You tube channels and social media platforms
- Feedback from students were obtained regarding online teaching
- The availability of smart classrooms and lecture capturing systems made the development of e contents easier.
- Additional studios and facilities for e content development are being created

6. Problems encountered Resources required:

- Technical problems by students and staff.
- Lack of effective communication and interaction.
- Discipline and motivation with sudden change
- Need to accept the change
- Digitalization posed challenges to teachers in using technology in creative and productive way.
- Lack of essential services and tools such as technological equipment or learning support services.
- To preserve faculty and students motivation, engagement and interest in online mode of teaching.

Notes (optional):

- E-content is one of the materials that can be designed and developed, used, reused and distributed. It is a popular mode of learning because of flexibility of time and place of learning.
- At KAHER we have been able to manage academics even during the lockdown situations by effective uses of e content resources.
