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Examples of the use of clinical skills and simulation labs in the acquisition and enhancement of skills

As per prescribed curriculum of affiliated university various skill development techniques such as manual therapy, neural tissues mobilization, wheelchair training, postural drainage and many more are taught in the institute. The institute has established Clinical skills training lab with good infrastructure in accordance with the training requirements of the students.

We have four speciality subjects' Labs in our institute as follows:

1. Musculoskeletal Physiotherapy

All conditions related to the orthopedic pathology are treated in this branch. It is a separate branch/specialty of Physiotherapy which also includes soft tissue mobilization like myofascial release or manual mobilization skills. Manual mobilization includes skills such as Maitland mobilization mulligan mobilization etc and is taught to the students in this department. These techniques administered contribute in increasing range of motion and reducing pain for the patient. In our institute we have taught these skills to the students on model/ subject by faculty and students has to practice it under their guidance in the skill labs.

2. Neuro Physiotherapy

This branch includes the adult and pediatric patients related with the neurological conditions. Skills related to such conditions includes neural tissue mobilization, Neurodevelopmental techniques, approaches like Brunnstrom approach etc are taught in this department. Few diagnostic tools like Electromyography and Nerve Conduction Velocity are used and also for treatment purpose. Senior faculty of our institute teaches the use and interpretation of EMG and NCV to the postgraduate students and the demonstration of the same is given to the undergraduate students. Application of such techniques are done by the postgraduate students on the patients for diagnostic and prognostic purpose. Recent advance manual techniques are also used in this department during the treatment of the adult and pediatric patients.

3. Cardiorespiratory Physiotherapy

This branch of Physiotherapy deals with the critical care unit and patients with cardiac and respiratory illness are treated. Treatment skills like postural drainage, positioning of the patient, chest physiotherapy are taught to the undergraduate and postgraduate students in the specially arranged skill labs in the department. For demonstration of such techniques we had arranged specialized treatment specific beds and some special equipments. For diagnostic purpose we also have assessment tools such as Pulmonary function testing, maximum inspiratory and expiratory pressure devices, PEFr etc. For exercise testing, we have arranged a specialized lab having treadmill and cardiac monitors into it. All the training of the manual skills and equipment skills are taught by the senior faculty to the students.

4. Community Based Rehabilitation

This branch deals with geriatric rehabilitation, women's health i.e antenatal and postnatal care and also work in industries or in the community. Students are trained to work in the community by giving visits to geriatric centers and industries. Skills like patient handling, wheelchair management in the outpatient community are taught to the students. We have a special lab for community based rehabilitation where wheelchair training skill, instrument handling for assessment and treatment are taught in this lab.

5. Kinesiotherapy Lab

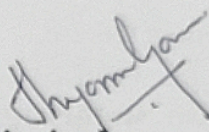
Kinesiotherapy lab is one of the important parts of learning skill development for the students of undergraduate. All the basic manual assessment and treatment skills are taught in this lab on models or the colleagues. Basic assessments like range of motion, manual muscle testing, vital parameter checking, and reflex testing are taught here. Also treatment techniques like passive movements, yoga, stretching, strengthening techniques etc are demonstrated here to the undergraduates.

6. Electrotherapy Lab

The electrotherapy lab is specialized for teaching electrical modalities which are commonly used for assessment and treatment purpose. It includes electrical stimulation, TENS, Hot pack, Paraffin wax bath and many more in the lab. In our institute we teach the undergraduates, testing and use of the equipment's on the models. It serves as an important part in the treatment of physiotherapy. This equipment's are used to decrease pain, stiffness and reduce inflammation of the patient.

7. Skill Lab

Skill lab is one of the areas where skills like suspension therapy, mat exercises, yoga therapy are practiced. Such skills are required for patient oriented treatment. Various other skills such as wheelchair training are also practiced in skill lab.



Principal

DVVPF's College of Physiotherapy