



**PRAVARA INSTITUTE OF MEDICAL SCIENCES
(DEEMED TO BE UNIVERSITY)**

**Loni, Tal. Rahata, Dist. Ahmednagar 413736
NAAC Re-accredited with 'A' Grade**

SYLLABUS

**Post Doctoral Fellowship in Spinal Cord Injury Rehabilitation
(Dr. APJ Abdul Kalam College of Physiotherapy)
(Academic Council Meeting Dated 28th October 2021)**

Title: Post Doctoral Fellowship in Spinal Cord Injury Rehabilitation

PREAMBLE-

Pravara Medical Trust and Pravara Institute of Medical Sciences (PIMS)- Deemed to be University has established Smt. Sindhutai E. Vikhe patil Spinal Cord Injury (SCI) Rehabilitation centre under the ageis of Dr. A.P.J. Abdul Kalam College of Physiotherapy, PIMS(DU), Loni, Ahmednagar in December 2017.this centre offers rehabilitation to patients in sub-acute and chronic phase of spinal cord injury.

1. **INTRODUCTION** - Candidate for this certified program is the final year physiotherapy student, intern or post graduate student or professional who has completed compulsory Bachelor of physiotherapy course & want undergo spinal cord injury rehabilitation training in Smt. Sindhutai Vikhe Patil Spinal Cord Injury Centre of Dr. A.P.J. Abdul kalam college of physiotherapy. The module will include following topics.

A. Module-

Module will include online academic sessions and offline clinical practice

1. Introduction & Anatomy of Nervous system
2. Mechanism of injury
3. Medical management
4. Surgical management
5. Complications of spinal cord Injury
6. Role of reconstructive surgery
7. Physiotherapy
8. Counselling
9. Wheelchair training
10. Orthosis and walking aids
11. Bowel Bladder management

12. Nursing care in SCI patients
13. Community based rehabilitation
14. Home based rehabilitation
15. Discussion forum with Karolinska institute, Sweden
16. Clinical training and field activities for patients

B. Objective- The objective of this program are:

- a) To enhance the physiotherapist's clinical decision-making skills in SCI rehabilitation
- b) To improve the interpersonal & communication skills
- c) To improve the skills of clinical interpretation of special reports & principles involved prescribing orthotics.
- d) To improve professionalism & team work.
- e) Prepare students to be highly skilled to promote lifelong adherence to evidence – based practice in SCI rehabilitation
- f) Provide an avenue for physiotherapist to not just develop most current clinical knowledge but also to acquire administrative experience which will in turn help them plan rehabilitative care for SCI patients

2. Eligibility criteria–BPT pass out student or professional

3. Duration – duration of this program is 1 year

4. Selection criteria-- candidate must write an application & motivational letter to head of institution to join as volunteer.

- An interview of candidate will be conducted by head of the institution.
- The selection will be done on the basis of motivation letter & performance in interview
- Nominal fees are proposed to be charged for participants intended for registration of this program.

5. Curriculum –

- This program is full time 1 year with approximately 1200 hours including 900 hours of clinical practice and more than 300 hours of academic sessions with highly qualified faculties from

physiotherapy, medicine, surgery, reconstructive surgery, nursing counselor and international faculties.

- The program include clinical practice integrated to give an all – round training for each week postings, in not just patient care but also necessary in physiotherapy or rehabilitation department.
- The curriculum content and other-directed learning activities will include, attending SCI patients for field activities, imparting supervised patient care for them
- The candidate will have to make a formal presentation of a case study along with recent advance in physiotherapy treatment at the end of clinical posting.
- It is designed to assess the learning effects during the entire period of the program.

| | Percentage | Teaching Hours | Credit Hours |
|----------------|------------|----------------|--------------|
| Knowledge | 25% | 300 | 20 |
| Skill Training | 75% | 900 | 30 |
| | 100% | 1200 | 50 |

- For knowledge 1 Credit equals 15 hours.
- For skill training 1 Credit equals 30 hours
- Knowledge will be covered through Didactic Lectures, Seminars, Journal Club, self-study etc.
- Skill training will be covered through case presentations, case discussions, hands-on training

6. Teaching Methodologies:

- Didactic Lectures
- Case Discussion
- Student Directed Learning
- Case Based Learning
- Role Playing
- Simulator Based learning
- Web Based learning
- Self-Study

7. Teaching component will include:

- Didactic learning (theory lectures, seminars, journal club sessions and group discussions).

- B. Non-didactic/practical/clinical learning - (bed-side, treatment procedure, clinical demonstration, case discussion, laboratory observation sessions).
- C. Combined Rounds.
- D. Interdepartmental conferences/Case presentations

8. Clinical Posting:

- A. Academic and practical training commences in the Critical Care Unit.
- B. Second month of training will involve identification of project and synopsis submission for Ethical Committee approval.
- C. Didactic and clinical training will be held within the unit.
- D. Student will be expected to acquire good clinical practice skills pertaining to the curriculum.
- E. Team work, bed-side practice, out-patient care skills should be acquired by the end of course duration.

9. Program outcome-

- Support the vision, mission and value of Pravara rural hospital, to lead by example of best clinical practices in patient care.
- Promote work and achievements of Sindhutai E. Vikhe Patil Spinal Cord Injury centre.
- Prepare the candidates to be highly skilled critical thinker to promote lifelong adherence to evidence - based practice.
- Prepare the candidate to enhance hands on clinical skill in field of spinal cord injury rehabilitation.

10. Certification - At the end of the program on the basis of formal clinical case presentation the academic staff of each department will analyse performance of candidate. further on satisfactory performance institute will provide certificate of completion.

11. Venue of this program- Sindhutai E. Vikhe Patil SCI centre, Dr. A. P. Abdul Kalam college of Physiotherapy and rural hospital

12. Intake Capacity -Intake capacity for this program is 5 candidates.

13. **Fees** - nominal fees proposed to be charged from each candidate is Rs.10,000/- which is intended for registration, documentation and certification of this program.
14. **Final and administrative expectation-** from PIMS - DU and Pravara rural hospital the expectation is nil related with finance and administration.
15. **Infrastructure requirement-** SCI centre and IPD of physiotherapy department at Pravara rural Hospital.
16. **Audit-** yearly audit of the program and financial audit process with format is as per PIMS - DU norms.
17. **Annual meta evaluation of program-** the content and delivery of this program and annual meta evaluation is as per PIMS- DU norms.
18. **Central documentation-** for each batch program central documentation will be done at Dr. A. P.J. Abdul Kalam college of physiotherapy.
19. **Grievance redressal and mechanism** -If any kind of misbehavior of candidate is observed during this program, then disciplinary action will take by PIMS-DU university norms.
20. **Other aspects of program-** nil.
21. **Clause-** if any difficulty arises then power of authority is PIMS-DU norms.

❖ **Rules and regulation-**

- Candidate must follow all the rules and regulation laid by head of institution & head of respective department.
- Candidates can do rotation duty in all departments or candidates can do duty as per their interest.
- Candidate must do IPD and OPD patients every day as per their duty in department.
- Candidate will report every day to Coordinator of SCI centre.
- Candidate has to maintain log book record of patients in clinical posting.
- Candidate must follow professional ethics.

22. Evaluation:-

Term end examination will be arranged and conducted by Dept. of Cariorespiratory Physiotherapy, Dr. APJ Abdul Kalam College of Physiotherapy and declare the result.

Examination Scheme

Paper – I : Post Doctoral Fellowship in Spinal Cord Injury Rehabilitation

Paper – II : Recent advances in Post Doctoral Fellowship in Spinal Cord Injury Rehabilitation

Theory Examination:- (2 Paper of 100 marks each)

2 LAQ x 20 Marks = 40 Marks

6 SAQ x 10 Marks = 60 Marks

Practical Examination:-

One Long Case / Long experiments = 50 Marks

Three Short Cases (3 x 30) = 90 Marks

Viva Voce / Oral / OSPE / Spottes = 60 Marks

Minimum Passing:-

i) Minimum 50% in Theory papers (Each paper minimum is 40%)

ii) Minimum 50% in Practical /Clinical & Viva Voce

iii) Overall 50% Theory & Practical/Clinical

Award of class:-

50% to 59.5% = IInd class

60 to 74.5% = Ist Class

Above 75% = Ist Class with Distinction

Attempts:-

- A student shall clear the Examination only within three attempts or within 4 years of admission.
- Result / Issue of Mark Sheet - Head of Institute & HOD will jointly issue the Mark Sheet.

Certification:-

- A) Title – Fellowship in Palliative Care.
- B) A fellowship is awarded upon successful completion of the prescribed study program, which will state that i) Candidate has completed the prescribed course of palliative care. ii) Candidate has completed prescribed clinical experience. iii) Candidate has passed the prescribed examination.
- C) Certificate will be issued with the signatures of concern Principal & Vice-Chancellor, Pravara Institute of Medical Sciences (Deemed to be University).
- D) Certificates to be prepared by concern College.

23. Mandatory Fullfilment:-

- 1) To participate in UG teaching / PG teaching.
- 2) Presentation of 6 assignments.
- 3) One Research Methodology Workshop.
- 4) Participation / Presentation with minimum One Research article in Seminars/Conferences/workshop etc.
- 5) One Research Paper in Indian / Scopas / UGC Care list journal.

24. Conditions for admission to examination

The Student:

1. has attended not less than 80% of the theoretical instruction hours in each subject during the year.
2. has done not less than 80% of the clinical practical hours. However, students should make up 100% of attendance for integrated practice experience in term of hours and activities before awarding the certificate.

