

CARDIORESPIRATORY PT

GOALS

1. Advanced understanding of anatomy, physiology, and pathophysiology of the cardiac and respiratory systems.
2. Develop rehabilitation programs for patients with conditions like COPD, asthma, heart failure, and post-surgical complications.
3. Develop expertise in using advanced tools for assessing lung function, exercise capacity, and cardiac health.
4. Handling acute situations such as airway clearance, suctioning, and mechanical ventilation support.
5. Develop the ability to lead physiotherapy teams, educate patients, and advocate for public health initiatives
6. Develop the ability to critically appraise and apply research in cardiorespiratory physiotherapy

OBJECTIVES

1. State the pathophysiology of common cardiorespiratory conditions like COPD, asthma, heart failure, and post-surgical complications.
2. Identify and interpret diagnostic tests (ECG, pulmonary function tests, arterial blood gases, etc.) relevant to cardiorespiratory care.
3. Demonstrate patient assessments, including auscultation, chest expansion measurements, and functional capacity tests.
4. Demonstrate therapeutic interventions such as airway clearance techniques, pulmonary rehabilitation, and breathing exercises.
5. Construct individualized exercise programs for patients with cardiovascular and pulmonary disorders.
6. Appraise scientific literature related to cardiorespiratory physiotherapy.

7. Prepare independent research projects to address clinical questions and improve patient outcomes.
8. Demonstrate effective communication skills when educating patients and collaborating with healthcare teams.

TEACHING LEARNING STRATEGIES

1. **Case-Based Learning:** Students present real patient cases, & are encouraged to assess, diagnose, and create treatment plans. This bridges theory and practice gap efficiently
2. **Simulation and Skills Labs:** we follow hands-on practice in techniques like chest physiotherapy, suctioning, and ventilator management over models and for final year ,PG students under supervision over patients
3. **Interactive Lectures:** We do Integrate quizzes, group discussions, and visual aids (like spirometry curves or ABG analysis charts, ECG reports) to keep students engaged making lectures as two-way interaction
4. **Peer Teaching:** We do role play practical learning where students explain concepts like breathing mechanics or oxygen transport to each other — it reinforces their understanding
5. **Problem-Based Learning (PBL):** we follow this as real case scenarios by presenting a complex clinical scenario (e.g., a COPD exacerbation case) and guide students to asses, diagnose propose treatment strategies
6. **Objective Structured Clinical Examination (OSCE):** we in cooperate OSCE by preparing students for practical exams by simulating stations for assessment, airway clearance techniques, and patient education
7. **Technology Integration:** Use apps for lung sound simulations or virtual reality (VR) tools to simulate ICU environments

ASSET DETAILS							
Item Description	Manufacturer	Make	Model	Year	Serial Number	Model No.	Asset Number
BP INSTRUMENT		NA	NA	2019			SVJCT-BKLWCOP-BP APP -01/2019
STETHOSCOPE		NA	NA	2019			SVJCT-BKLWCOP-STHETHOSCOPE -01/2019
PULSE OXIMETER		NA	NA	2019			SVJCT-BKLWCOP-PULSE OXY -01/2019
INCENTIVE SPIROMETER		NA	NA	2019			SVJCT-BKLWCOP-INCENTIVE SPIRO -01/2019
ULRASONIC NEBULIZER		NA	NA	2019			SVJCT-BKLWCOP-ULTRASONIC NEB -01/2019
FLUTTER		NA	NA	2019			SVJCT-BKLWCOP-FLUTTER -01/2023
ACAPELLA		NA	NA	2019			SVJCT-BKLWCOP-ACAPELLA -01/2019
PORTABLE PFT MACHINE		NA	NA	2023			SVJCT-BKLWCOP-PFT-01//2023
IMT		NA	NA	2019			SVJCT-BKLWCOP-IMT -01/2019
PEAK FLOW METER		NA	NA	2019			SVJCT-BKLWCOP-PEAKFLOW METER -01/2019
TREADMILL		NA	NA	2019			SVJCT-BKLWCOP-TREADMILL -01/2019
STATIC BICYCLE		NA	NA	2019			SVJCT-BKLWCOP-BIKE -01/2019
		NA	NA	2019			SVJCT-BKLWCOP-ERGOCYCLE/03/2019
NEW STEPPER	EMC	NA	NA	2023		N.A	SVJCT-BKLCOP-STEPPER CARDIO /01/2023
CONE	VIXEN	NA	NA	2023	N.A	N.A	SVJCT-BKLCOP-CONE /01/2023
	VIXEN	NA	NA	2023	N.A	N.A	SVJCT-BKLCOP-CONE /02/2023
	VIXEN	NA	NA	2023	N.A	N.A	SVJCT-BKLCOP-CONE /03/2023
	VIXEN	NA	NA	2023	N.A	N.A	SVJCT-BKLCOP-CONE /04/2023
	VIXEN	NA	NA	2023	N.A	N.A	SVJCT-BKLCOP-CONE /05/2023
	VIXEN	NA	NA	2023	N.A	N.A	SVJCT-BKLCOP-CONE /06/2023
SUCTION MACHINE		NA	NA	2019			SVJCT-BKLWCOP-SUCTION MACHINE /01/2019
CROSS TRAINER		NA	NA	2019			SVJCT-BKLWCOP-CROSS TRAINER/01/2019
DUMBELLS 1KG,2KG	EMC	NA	NA	2019			SVJCT-BKLWCOP-DUMBELL/01/2019
	EMC	NA	NA	2019			SVJCT-BKLWCOP-DUMBELL/02/2019
	EMC	NA	NA	2019			SVJCT-BKLWCOP-DUMBELL/03/2019
	EMC	NA	NA	2019			SVJCT-BKLWCOP-DUMBELL/04/2019
	EMC	NA	NA	2019			SVJCT-BKLWCOP-DUMBELL/05/2019
	EMC	NA	NA	2019			SVJCT-BKLWCOP-DUMBELL/06/2019
	EMC	NA	NA	2019			SVJCT-BKLWCOP-DUMBELL/07/2019
	EMC	NA	NA	2019			SVJCT-BKLWCOP-DUMBELL/08/2019
WEIGHT CUFF 2KG	EMC	NA	NA	2019	N.A	N.A	SVJCT-BKLWCOP-WEIGHTCUFF/02/2019
	EMC	NA	NA	2019	N.A	N.A	SVJCT-BKLWCOP-WEIGHTCUFF/02/2019
THERABAND GREEN RED YELLOW LIGHT	EMC	NA	NA	2023		N.A	SVJCT-BKLCOP-THERABAND-/03//2023
SKINFOLD CALIPER	N.A	NA	NA	2019	N.A	N.A	SVJCT-BKLCOP-SKINFOLD CALLIPER-01//2023
YOGA MAT		NA	NA	2019			SVJCT-BKLCOP-YOGA MAT/01/2023
YOGA MAT		NA	NA	2019			SVJCT-BKLCOP-YOGA MAT/02/2023