

## PULMONARY FUNCTION LABORATORY ROTATION

**Please note that these objectives supplement the objectives of the RCPS objectives.**

General Objective: The resident will gain skill in interpretation of all aspects of pulmonary function. As well as learning interpretive skills, they will learn the skills required to establish and quality control a lung function laboratory and the physiologic principles which are integral to understanding pulmonary function testing.

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| MEDICAL EXPERT  | <ol style="list-style-type: none"><li>1. The resident will be able to interpret pulmonary function tests including spirometry, lung volume measurement, measurement of respiratory muscle function, tests of lung diffusion, airways resistance/ conductance, and stage 2 and 3 exercise tests.</li><li>2. The resident will demonstrate a working knowledge of the physiologic principles that apply to the measurement and interpretation of the above named test.</li><li>3. The resident will be able to explain the clinical significance and limitations of these tests.</li><li>4. The resident will be able to explain the function of the equipment used in the laboratory.</li><li>5. Using the principles of pulmonary physiology, the resident will describe how the equipment measures the lung function and the clinical/physiological significance of these measurements.</li><li>6. The resident will be able to interpret ABGs. Using the principles of pulmonary physiology the resident will describe the clinical/physiological significance of the measurements.</li></ol> |
| COMMUNICATOR    | <ol style="list-style-type: none"><li>7. The resident will effectively communicate the results of pulmonary function testing to the referring physician.</li></ol>  |
| MANAGER         | <ol style="list-style-type: none"><li>8. The resident will demonstrate the management skills required to establish, maintain, and operate a lung function laboratory. These skills include performing quality assurance, implementing quality improvement techniques, and developing an operating budget.</li></ol>   |
| HEALTH ADVOCATE | <ol style="list-style-type: none"><li>9. The resident will discuss the role of spirometry in the community for the early detection of obstructive lung disease.</li></ol>   |