

Rotation: Pulmonary Function Testing (PFT)

Respiratory Physiology Required Reading

Developing a solid understanding of respiratory physiology is beneficial in all aspects of pulmonary and critical care medicine. To help achieve this goal we are recommending specific reading during your pulmonary function testing rotation. This will **be in addition to the recommended reading from Dr. Lazar regarding pulmonary function testing.**

The below reading schedule is a recommendation and can be adjusted to what works with your workflow and clinic schedule throughout the month.

The recommended book is Pulmonary Physiology by Michael G. Levitzky. This book is available in electronic format through Sladen Library.

<https://accessmedicine-mhmedical-com.sladenlibrary.hfhs.org/book.aspx?bookid=3230>

There is an option to download each chapter as a PDF. There is also an option to listen to the content of the chapters via audio.

For more in depth reading regarding respiratory physiology you can also review Nunn and Lumb's Applied Respiratory Physiology by Andrew B. Lumb and Caroline R. Thomas. This book is also available in electronic format through Sladen Library.

<https://www-clinicalkey-com.sladenlibrary.hfhs.org/#!/browse/book/3-s2.0-C20180006702>

You can review specific topics within this book during weeks three and four of the second rotation that match your clinical needs and interests.

These books can be used throughout fellowship as references for respiratory physiology.

First PFT Rotation

Week One

- Chapter 1: Function and Structure of the Respiratory System
- Chapter 2: Mechanics of Breathing

Week Two

- Chapter 3: Alveolar Ventilation
- Chapter 4: Blood Flow to the Lung

Week Three

- Chapter 5: Ventilation-Perfusion Relationships
- Chapter 6: Diffusion of Gases and Interpretation of Pulmonary Function Tests

Week Four

- Chapter 7: Transport of Oxygen and Carbon Dioxide in the Blood
- Chapter 8: Acid-Base Balance

Second PFT Rotation

Week One

- Chapter 9: Control of Breathing

Week Two

- Chapter 10: Nonrespiratory Functions of the Lung
- Chapter 11: The Respiratory System Under Stress

Week Three and Week Four

- Review specific topics in Nunn and Lumb's Applied Respiratory Physiology based on your clinical interests and needs