

Resources

[Waveform Website](#)

[ICU Learning, with interactive vent sim](#)

Reading, Chapter A	Reading, Chapter B
Reading, Chapter C	Reading, Chapter D
Reading, Chapter E	Reading, Chapter F
Reading, Chapter G	Reading, Chapter H

Deadlines

date	item
sep 30	chapter A
sep 30*	schedule chapters B, C, D
nov 15	waveforms set 1
dec 15	chapter D
apr 17	waveforms set 2
may 15	chapter H
jun 16	final assessment

*recommended, not hard deadline

Action Items

Wave forms

Waveform Submission Template

Due Nov 15

Normal Waveforms (all)

- Normal Pressure Control Breath
- Normal Volume Control Square Waveform Breath
- Normal Volume Control Decelerating Waveform Breath
- Normal Volume Targeted Breath
- Normal Passive Expiration
- Normal Pressure Support Breath

Maneuvers (all)

- Plateau pressure (Pplat) measurement
- Serial Measurement of Pplat at different PEEP levels
- Measurement of Static Compliance
- Measurement of Inspiratory Resistance
- Calculating Tau
- Measurement of zero autoPEEP
- Measurement of AutoPEEP >2 cmH2O

Features Concerning for the Presence of autoPEEP (>=1 of any of)

- Unequal Areas of Flow-Time Curve
- Persistent End Expiratory Flow
- Ineffective Triggering - if submitting as feature of autoPEEP, please also submit screen showing measured autoPEEP

Expiratory Asynchronies (all)

- Active expiration
- AutoPEEP (as noted above) and Management

Trigger Asynchronies (all)

- Autotrigger and Management
- Ineffective Trigger and Management
- Reverse Trigger and Management
- Double Trigger and Management

Due Apr 17

Flow Asynchronies (all)

- Flow Starvation on Pressure Control and Management
- Flow Starvation on Volume Control Decelerating Waveform and Management
- Flow Starvation on Volume Targeted and Management

Cycle Asynchronies (all)

- Premature Cycling on Pressure Control and Management
- Premature Cycling on Volume Control and Management
- Delayed Cycling on Pressure Control and Management
- Delayed Cycling on Volume Control and Management

Other Cases and Maneuvers (≥ 2 of)

- Breath Termination on Pressure Support Ventilation (PSV) - Expiratory Sensitivity (ESENS) adjustment for patient on PSV * Recruitment-Inflation Ratio Measurement * Increased Pressure-Time Product
- Dynamic Airway Collapse During Exhalation
- APRV
- Esophageal Manometry Guiding PEEP Titration
- Low-Flow Pressure Volume Loop
- Mechanical Ventilation on VV ECMO

From:

<https://ewrobbins.com/> - ewrobbins.com

Permanent link:

https://ewrobbins.com/doku.php?id=vent_course

Last update: **2025/09/25 15:22**

