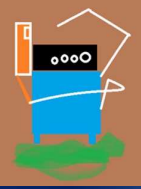


Empieza segunda parte

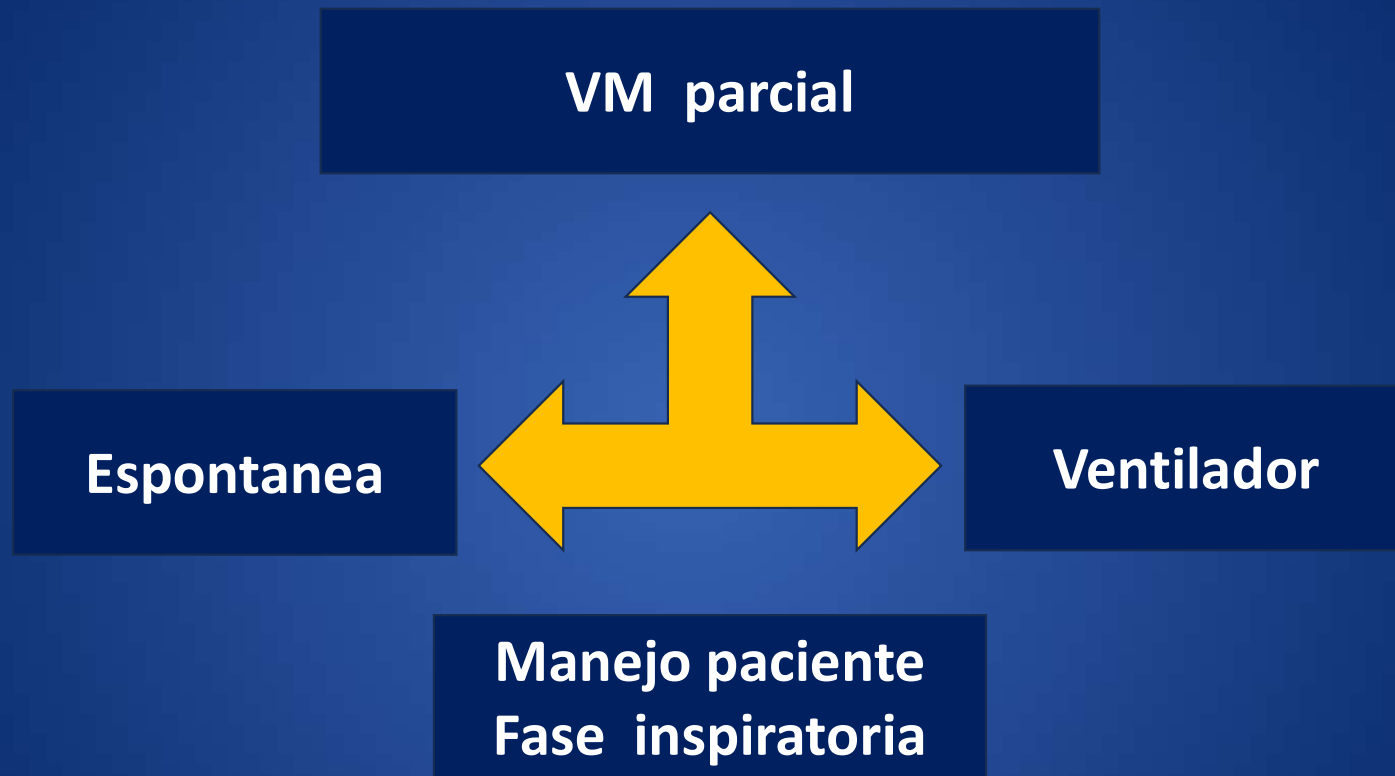
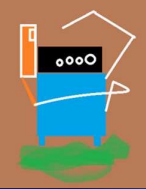
De los

Modos ventilatorios

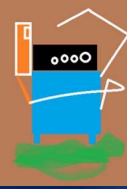


Parcial

El VM **suministra parte de La** ventilación
y el paciente Participa complementando
El resto, para de esta manera mantener
Una adecuada ventilacion Alveolar.



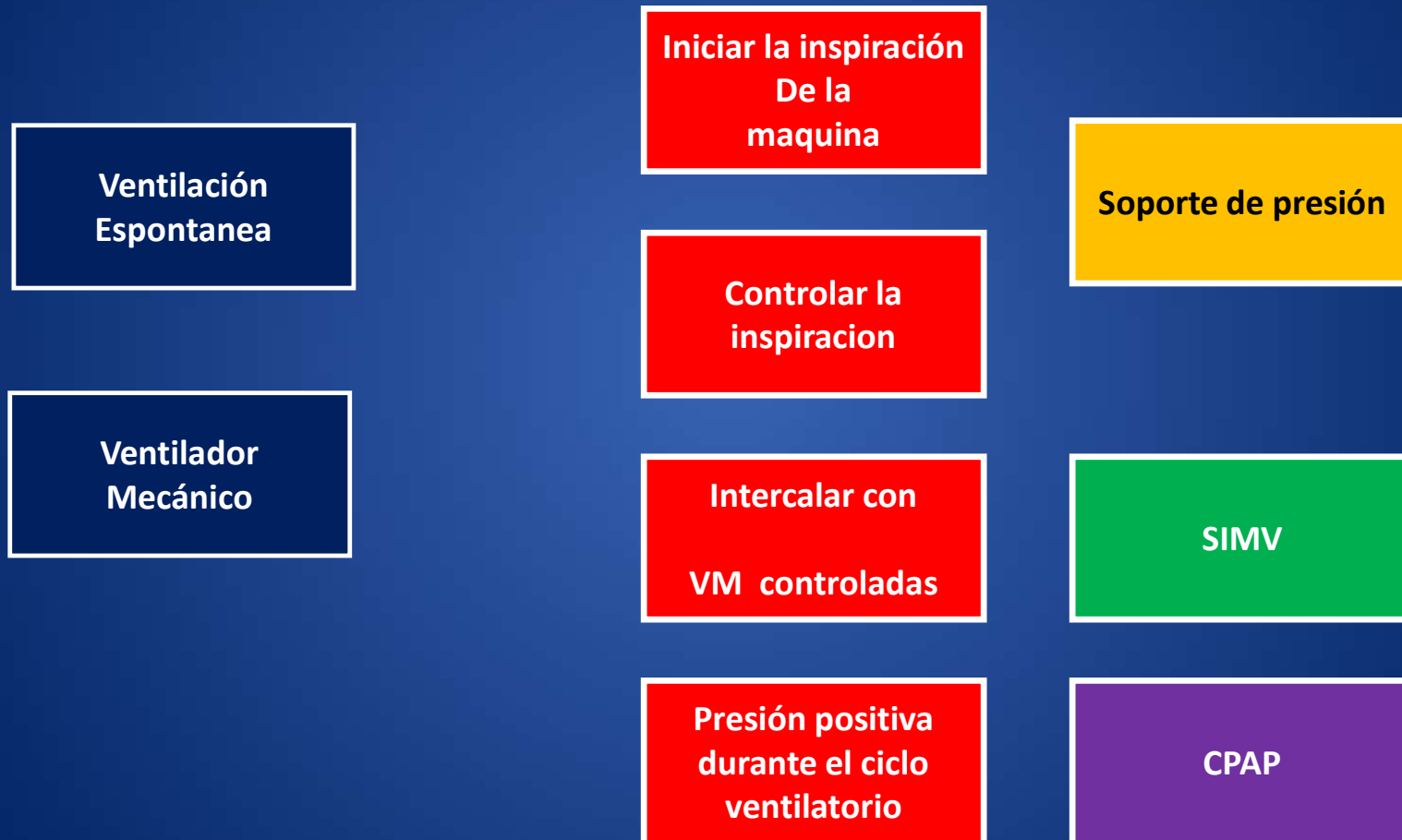
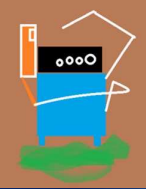
Ventilador



Paciente

$$\text{VM} = \text{VC} \times \text{FR}$$

Apoyo ventilatorio parcial



Ventilación espontanea

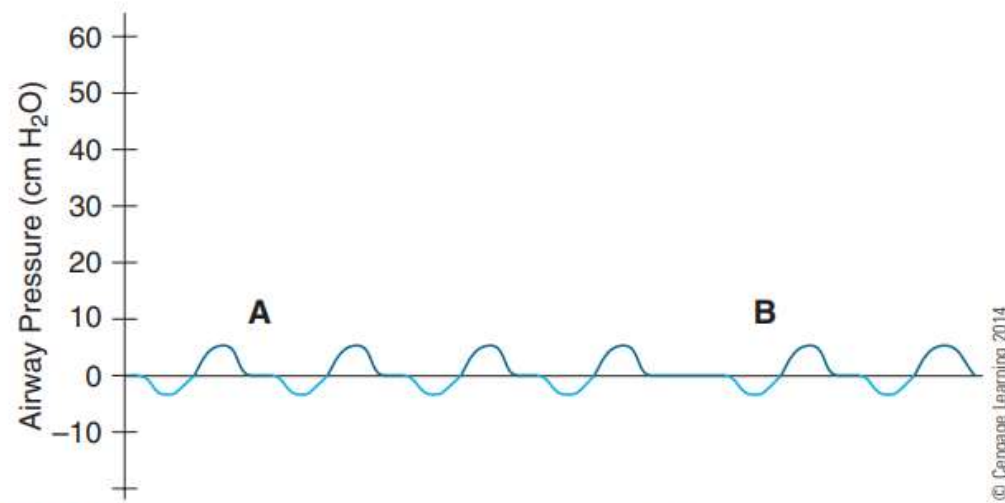
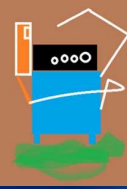


FIGURE 4-1 Spontaneous breathing pressure tracing. (A) The spontaneous rate is at a normal pattern. (B) The spontaneous breath is delayed by the patient.

Ventilación espontánea + PEEP

CPAP

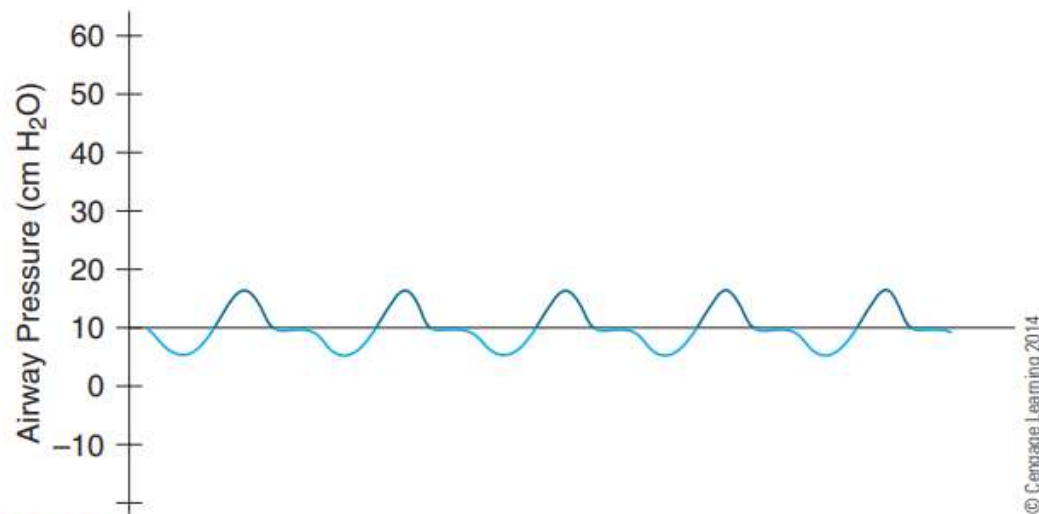
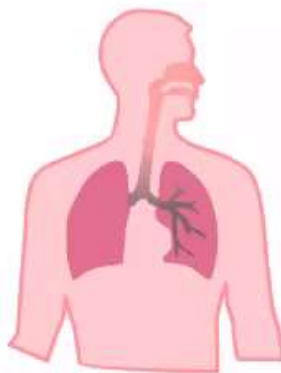
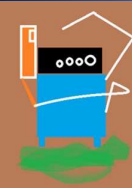


FIGURE 4-3 Continuous positive airway pressure (CPAP) of 10 cm H₂O.



Introducing the CPAP_{os}TM Training Simulator from EMT, Inc.

Place the cursor on the CPAP_{os}TM Adjustment Knob and move it in a circular motion clockwise to gradually increase the pressure and counterclockwise to decrease the pressure.

Observe the changes on the airway pressure gauge and in the airway pressure and flow waveforms.



Airway Pressure (cmH₂O)



Flow (L/min)



Ventilación mandatoria intermitente:

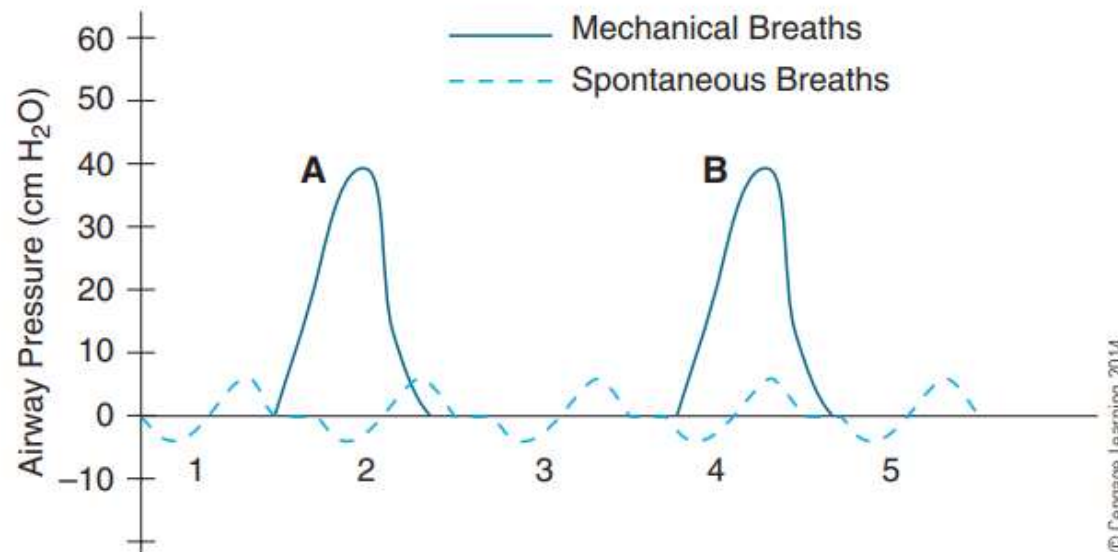


FIGURE 4-6 Intermittent mandatory ventilation (IMV) pressure tracing with two mandatory breaths and five anticipated spontaneous breaths (only three active). IMV mode may cause breath stacking since the mandatory breaths are delivered at a set time interval with no regard to the patient's breathing frequency. Mandatory breath (A) begins before the patient is ready for the anticipated spontaneous breath #2. Mandatory breath (B) begins shortly after the initiation of the anticipated spontaneous breath #4. The anticipated spontaneous breaths #2 and #4 did not occur as they turned into mechanical breaths during the mandatory cycle.

Ventilación mandatoria intermitente sincronizada

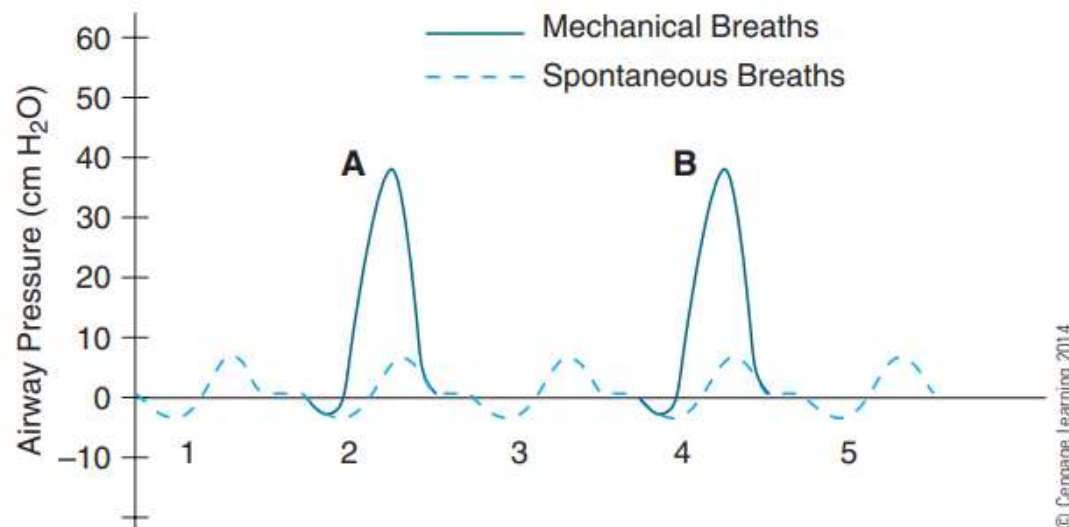
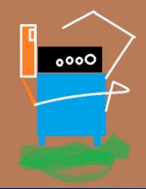


FIGURE 4-7 Synchronized intermittent mandatory ventilation (SIMV) pressure tracing with two mandatory breaths and five anticipated spontaneous breaths (only three active). SIMV mode does not cause breath stacking since the mandatory breaths are delivered slightly sooner or later than the preset time interval but within a time window. Mandatory breaths (A) and (B) occur during a spontaneous inspiratory effort. The anticipated spontaneous breaths #2 and #4 did not occur as they turned into mechanical breaths during the mandatory cycle.

Ventilación Con Soporte de Presión

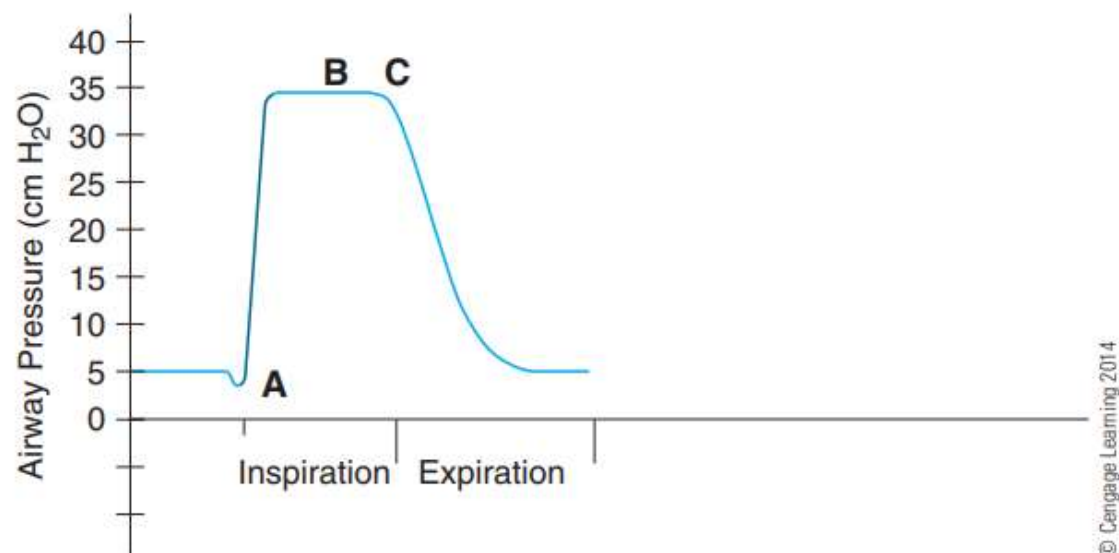
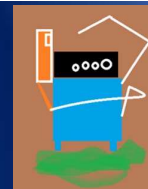


FIGURE 4-8 Pressure support ventilation (PSV) with PEEP of 5 cm H₂O. (A) Inspiratory effort; (B) Pressure support plateau of 30 cm H₂O (peak inspiratory pressure of 35 cm H₂O, PEEP of 5 cm H₂O); (C) Beginning expiratory phase when the inspiratory flow drops to 25% (or other predetermined %) of its peak flow.

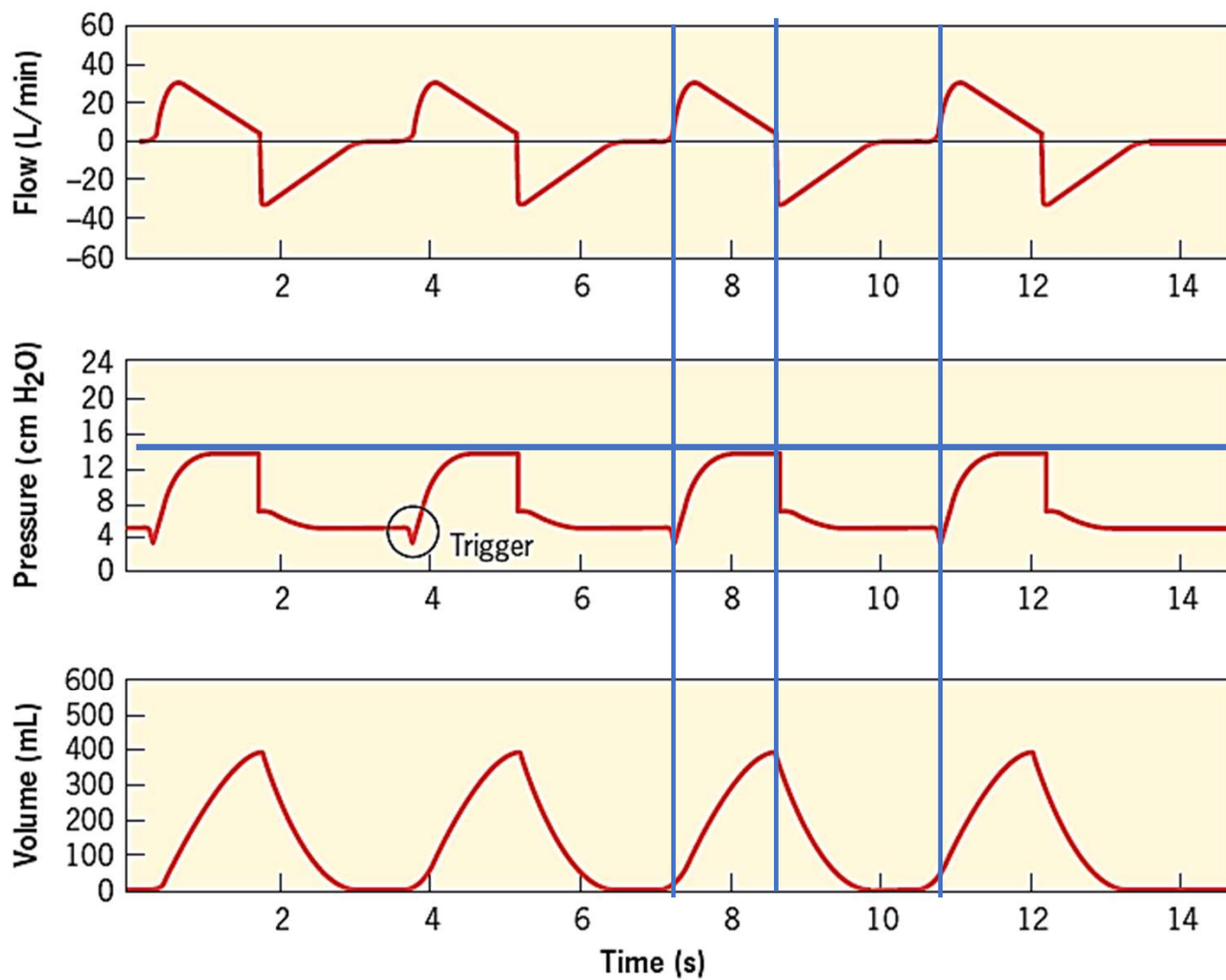


FIGURE 22-9 Pressure support ventilation.



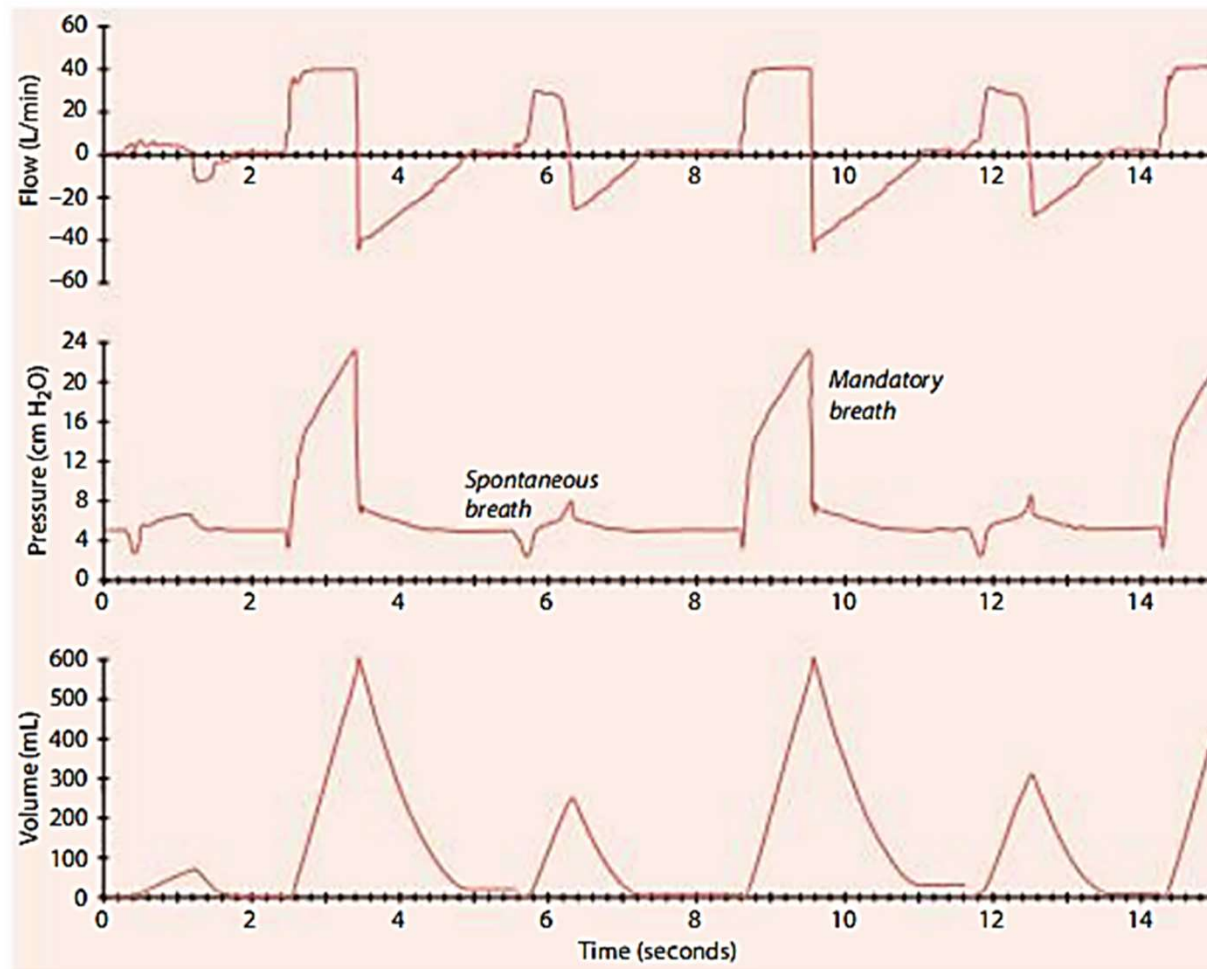


Figure 6-6 Synchronized intermittent mandatory ventilation illustrating mandatory and spontaneous breaths. The mandatory breaths are volume-controlled.

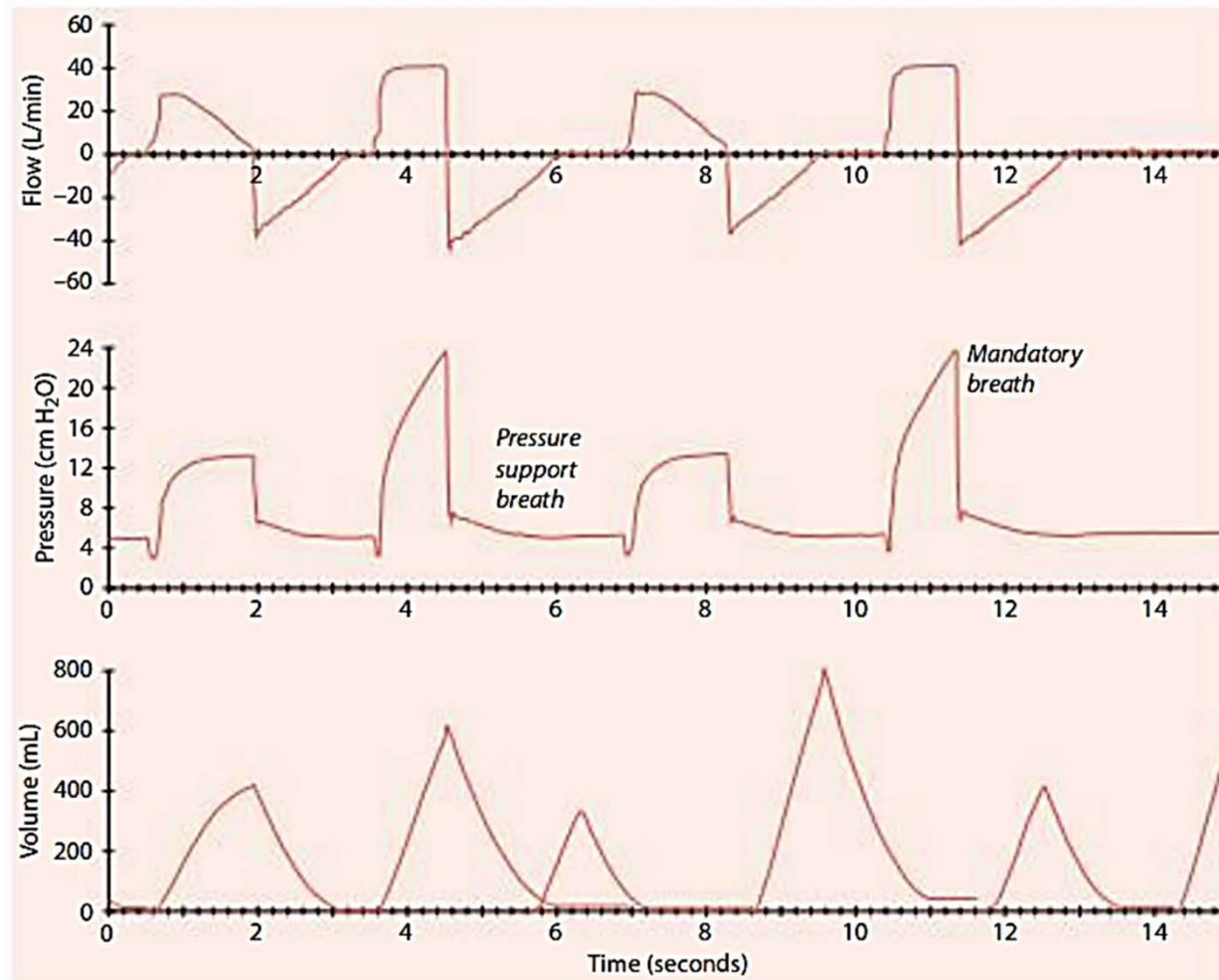
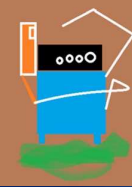
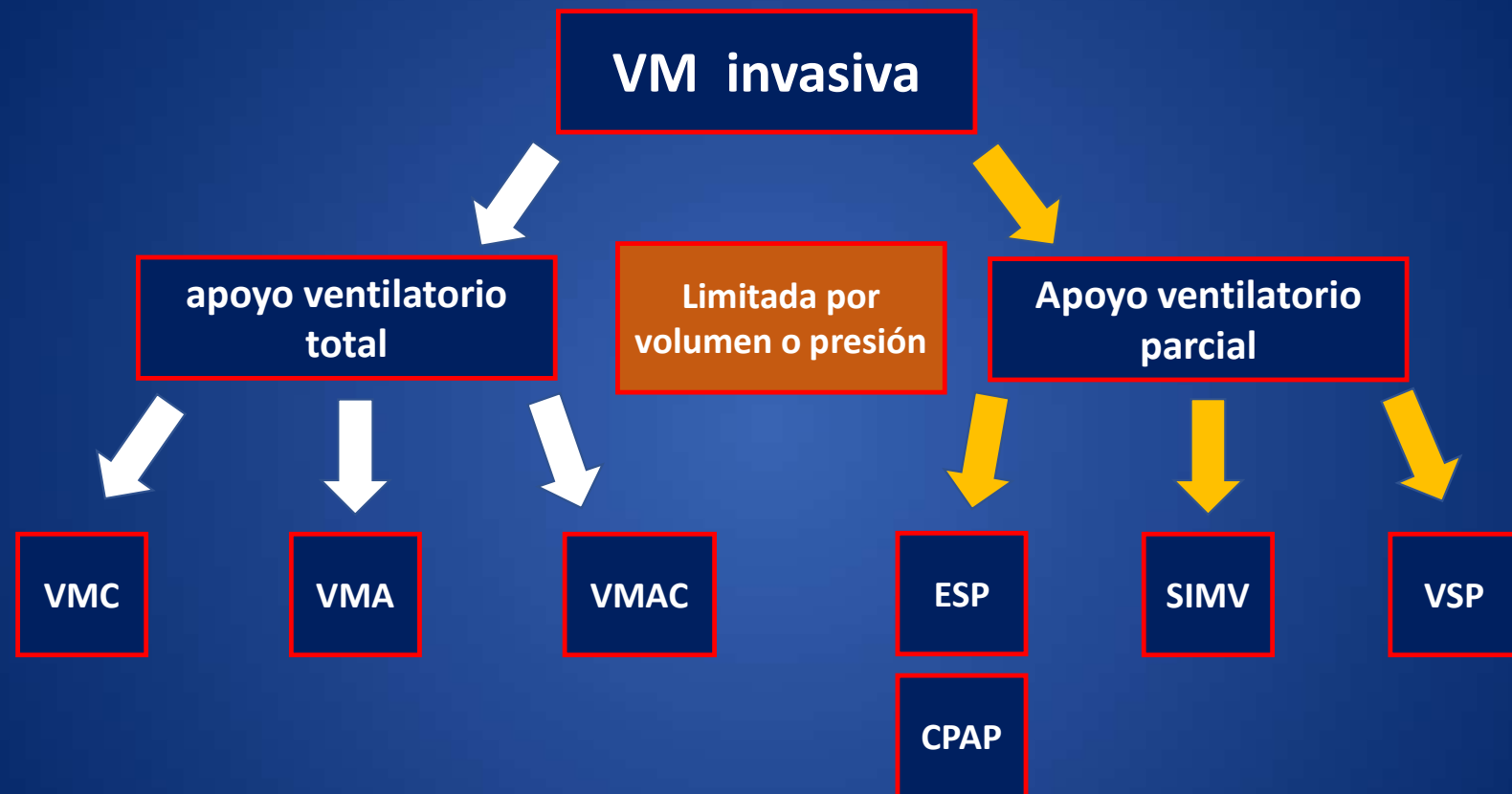
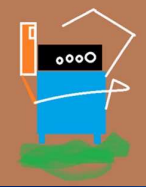
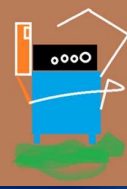


Figure 6-8 Synchronized intermittent mandatory ventilation with pressure support for the spontaneous breaths. The mandatory breaths are volume-controlled.





Fin de la presentación