

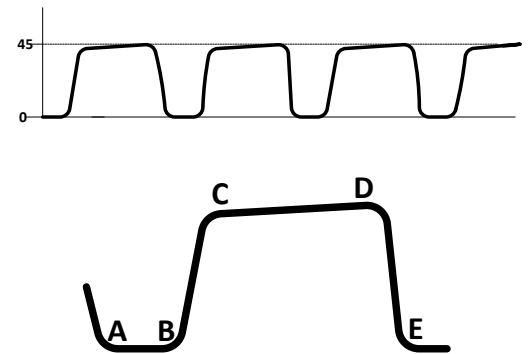
CAPNOGRAPHY

(Revised: April 2019)



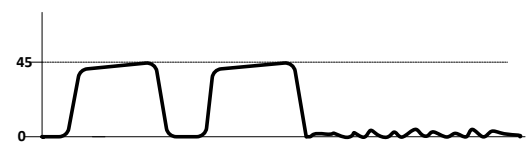
Normal waveform:

- A – B** Respiratory baseline
- B – C** Expiratory upslope
- C – D** Expiratory plateau
- D** End-tidal value – peak CO₂ concentration – at the end of the exhalation
- D – E** Inspiratory downstroke



Sudden loss of waveform, EtCO₂ near zero:

- ET tube disconnected, dislodged, kinked or obstructed
- loss of circulatory function



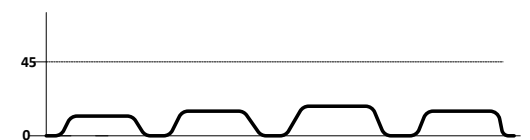
Decreasing EtCO₂ with loss of plateau:

- ETT cuff leak or deflated cuff
- ETT in hypopharynx
- partial obstruction



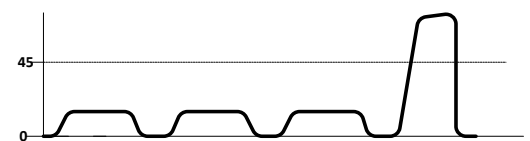
CPR assessment:

- attempt to maintain minimum 10mmHg



Sudden increase in EtCO₂:

- return of spontaneous circulation



NOTES:

- It is important to utilise waveform to assist in interpretation of information; do not rely only on the numerical reading.
- Critical values in critical patients:
 - **cardiac arrest:** EtCO₂ consistently above 15mmHg seems to have some positive correlation with ROSC
 - patients with **acute intracranial pathology** – PaCO₂ should be in the range of 30 – 45mmHg. Therefore, *EtCO₂ should be in the range of 27 – 40mmHg*