

ETCO2 IS A MEASUREMENT OF THE PARTIAL PRESSURE OF CO2 IN THE GAS SAMPLE AT THE **END** OF EXPIRATION. IT PROVIDES A NUMERIC VALUE OF EXHALED CARBON DIOXIDE. IT IS AFFECTED BY VENTILATION, PERFUSION AND METABOLISM. NORMAL ETCO2 IN THE ADULT PATIENT SHOULD BE **35-45 MMHG**.

## FOUR MAIN USES FOR ETCO2

- TUBE CONFIRMATION
- MONITORING DURING CARDIAC ARREST
- CONTINUOUS MONITORING DURING INTUBATION
- MONITORING DURING PROCEDURAL SEDATION

## VANKONG ETCO2 CARDIAC ARREST PEARLS

- ETCO2 SHOULD BE USED TO CONFIRM ETT PLACEMENT
  - O ETCO2 BECAME A LEVEL 1 RECOMMENDATION BY AHA IN 2010 FOR TUBE CONFIRMATION IN PATIENTS UNDERGOING CPR.
  - O BE AWARE ETCO2 CAN BE NORMAL WITH A RIGHT MAIN STEM INTUBATION.
- ETCO2 > 20 SUGGESTS GOOD QUALITY CPR
- CONSIDER AN ABRUPT INCREASE TO A NORMAL VALUE OR INCREASE OF 10MMHG AS AN EARLY INDICATOR OF ROSC
- ETCO2 CAN HELP GUIDE THE DECISION TO TERMINATE THE RESUSCITATION. ETCO2 LESS THAN 10 SUGGESTS INADEQUATE CPR OR A LOW LIKELIHOOD OF SURVIVAL AT THE 20 MIN MARK.
  - >20 MMHG AT 20 MINUTES CPR -> HIGHER CHANCE OF ROSC < 10 MMHG AT 20 MINUTES CPR -> ALMOST NO CHANCE OF ROSC