

## UMBILICAL ARTERY BLOOD ACID BASE ANALYSIS

### DEFINITIONS

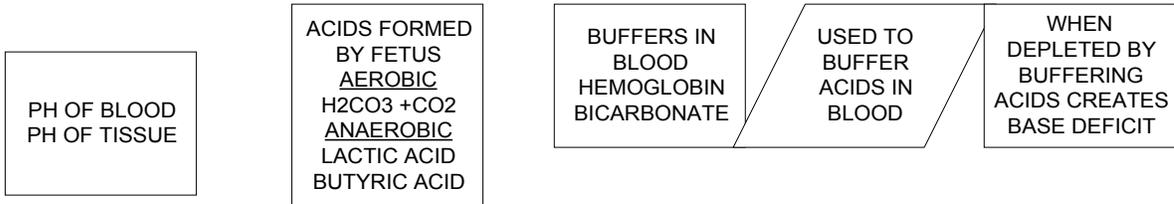
HYPOXEMIA: DECREASED OXYGEN IN BLOOD

HYPOXIA: DECREASED LEVEL OXYGEN IN TISSUE

ACIDEMIA: INCREASED CONCENTRATION OF H<sup>+</sup> IONS IN THE BLOOD

ACIDOSIS: INCREASED CONCENTRATION OF HYDROGEN IONS IN TISSUE

ASPHYXIA: HYPOXIA WITH METABOLIC ACIDOSIS



CLASSIFICATION OF NEWBORN OR FETAL ACIDEMIA		
ACIDEMIA TYPE	pCO <sub>2</sub> (MM HG)	HCO <sub>3</sub> <sup>-</sup> (MEQ/L)
RESPIRATORY	HIGH	NORMAL
METABOLIC	NORMAL	LOW
MIXED	HIGH	LOW

NORMAL UMBILICAL ARTERY PH (BLOOD RETURNING FROM FETUS THUS REFLECTING FETAL STATE BEST)  
 PH 7.27-7.29 LOWER LIMIT 7.15  
 FOR PREMIE 7.26-7.29 WITH LOWER LIMIT 7.13