

MODULE G PRACTICE SESSION

You perform the following hemodynamic and blood-gas measurements on a 35 year old woman admitted with viral pneumonia:

	ARTERIAL	VENOUS
pH	7.23	7.17
PCO ₂	44 torr	48 torr
PO ₂	60 torr	28 torr
HCO ₃ ⁻	18 mEq/L	17 mEq/L
SO ₂	85%	50%
Hb	11.4 gms	

Barometric Pressure: 749 torr
 FIO₂: .70
 IBW: 65 kg
 Tidal Volume: 550 mL

Cardiac Output: 4.8 L/min
 Heart Rate: 110
 Blood Pressure: 118/56
 Respiratory Rate: 18

Please calculate the following:

Shift of OHDC?

Minute Volume (\dot{V}_E)

Alveolar Minute Volume (\dot{V}_A)

Stroke Volume (SV)

Mean Systemic Arterial Pressure (MAP)

CaO_2

$C\bar{v}O_2$

$C(a - \bar{v})O_2$

$O_2 Del$

$\dot{V}O_2$

$O_2 ER$

Q_s / Q_t

