

## The ABG Challenge

<b>Problem #1:</b>  pH 7.56 PaCO <sub>2</sub> 20 HCO <sub>3</sub> 20 PaO <sub>2</sub> 88	<b>Interpret the ABG:</b>
<b>Problem #2:</b> A 16 y/o male presents to the ER, obtunded, and rapid, shallow breathing, with progressive weakness over the last month. ABG results:  pH 6.98 PaCO <sub>2</sub> 40 HCO <sub>3</sub> 7 PaO <sub>2</sub> 48	<b>Interpret the ABG:</b>
<b>Problem #3:</b> A 35 y/o patient presents in the ED with a history of sickle cell anemia, cirrhosis of the liver, and vomiting for the past few days.  pH 7.55 PaCO <sub>2</sub> 66 HCO <sub>3</sub> 56 PaO <sub>2</sub> 53 Na <sup>+</sup> 166 Cl <sup>-</sup> 90	<b>Interpret the ABG:</b>
<b>Problem #4:</b> The patient is a chronic, COPD patient in acute exacerbation due to a bout of pneumonia.  pH 7.46 PaCO <sub>2</sub> 40 HCO <sub>3</sub> 31 PaO <sub>2</sub> 58	<b>Interpret the ABG:</b>
<b>Problem #5:</b> A CHF patient on a ventilator, who is receiving diuretic therapy.  pH 7.59 PaCO <sub>2</sub> 25 HCO <sub>3</sub> 24 PaO <sub>2</sub> 95 Na <sup>+</sup> 148 Cl <sup>-</sup> 95	<b>Interpret the ABG:</b>

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