Blood Gases

**Alpha-Stat**
Don't tell the lab that the patient is cold
You will adjust ventilation to achieve a PaCO2 of 40
This is equivalent to a corrected PaCO2 of ~32

**pH-Stat**
You tell the lab what the patient's actual temp is
You will then adjust ventilation to achieve a PaCO2 of 40
This is equivalent to a corrected PaCO2 of 40
Many folks believe that this is too high for the enzymatic reactions while the patient is cold

*May be best to split the difference and aim for*
PaCO2 of 44 for Alpha-Stat and 36 for pH-Stat

**Oxygen**
If using Alpha-Stat, you must correct the PaO2 by Subtracting 5 for every degree below 37 of patients actual core temp