

Use Figures 13.2 and 13.3 to fill in this table.

| | lung cells → | heart → | muscle cells |
|---|--------------|---------|--------------|
| pH tissue | | | |
| O ₂ concentration | | | |
| hemoglobin fraction O ₂ bound | | | |
| % hemoglobin with 4 O ₂ bound | | | |
| % hemoglobin with zero O ₂ bound | | | |
| myoglobin fraction bound O ₂ | | | |
| % myoglobin with 1 O ₂ bound | | | |
| % myoglobin with zero O ₂ bound | | | |

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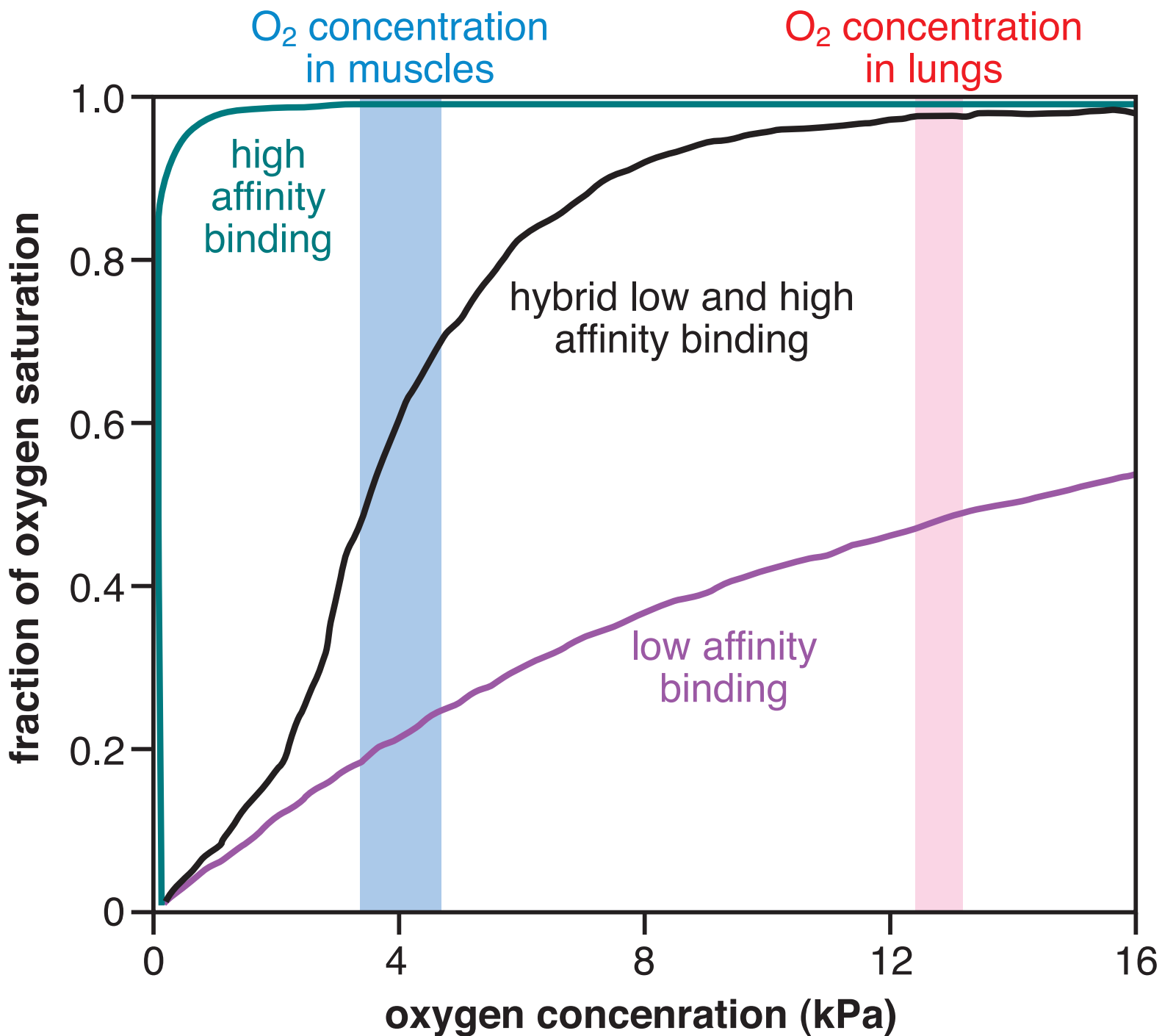


Figure 13.2 Solubility of oxygen in three solutions containing hypothetical molecules. Each solution contains hypothetical molecules with low (purple), high (teal), or cooperative (black) affinity for oxygen. Oxygen concentration in your lung cells and muscles are shown as narrow ranges.