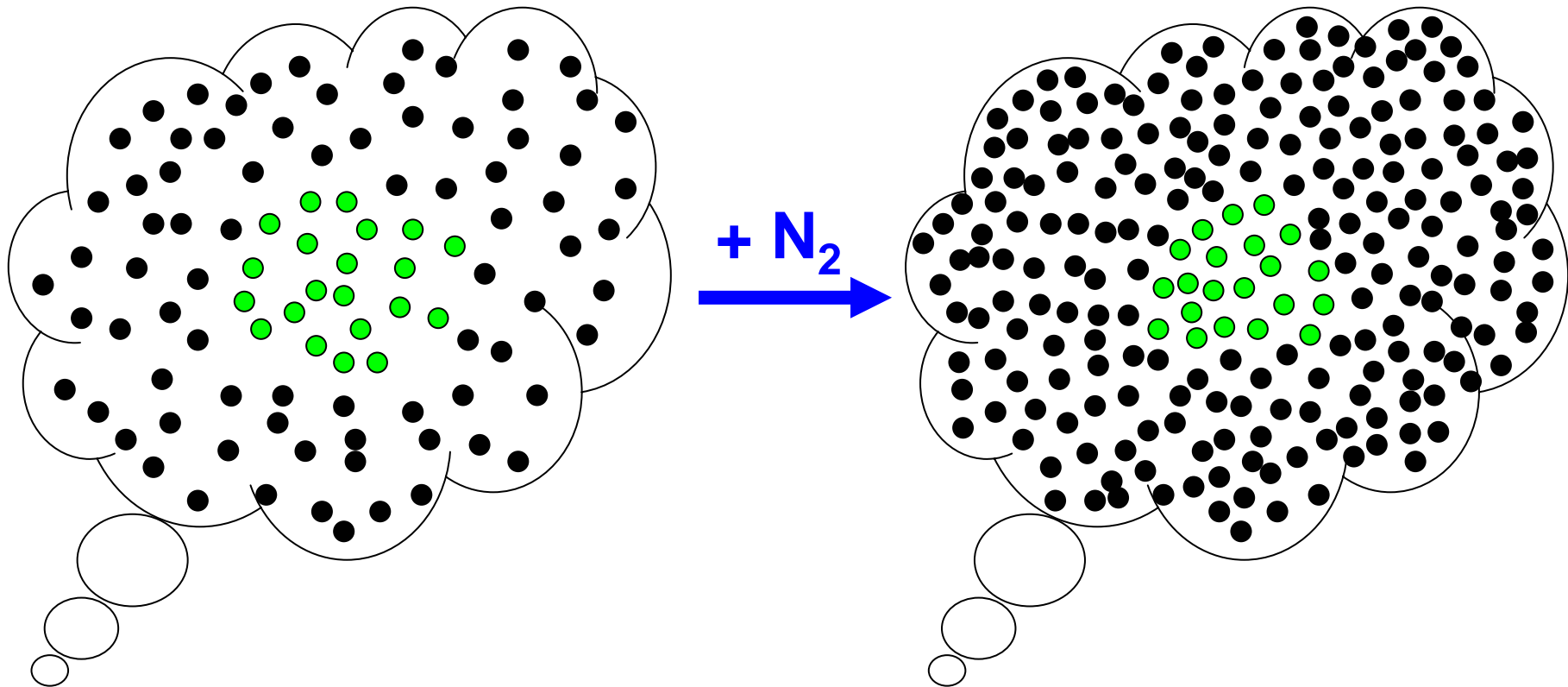


Nitrogen Dilution Effects on O₂ Driving Pressure

Sea Level
21% O₂
160 mmHg

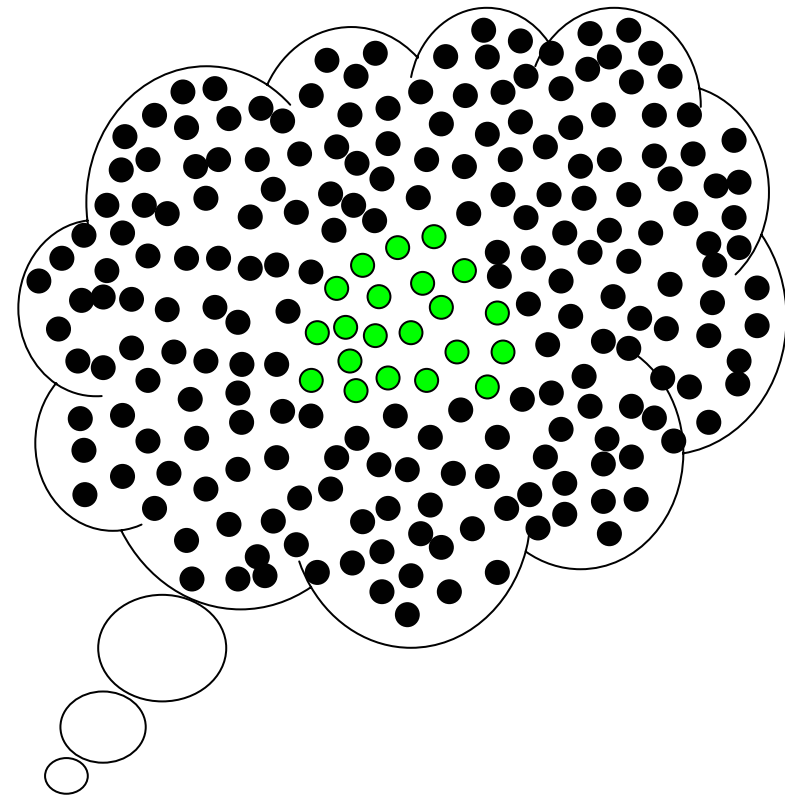
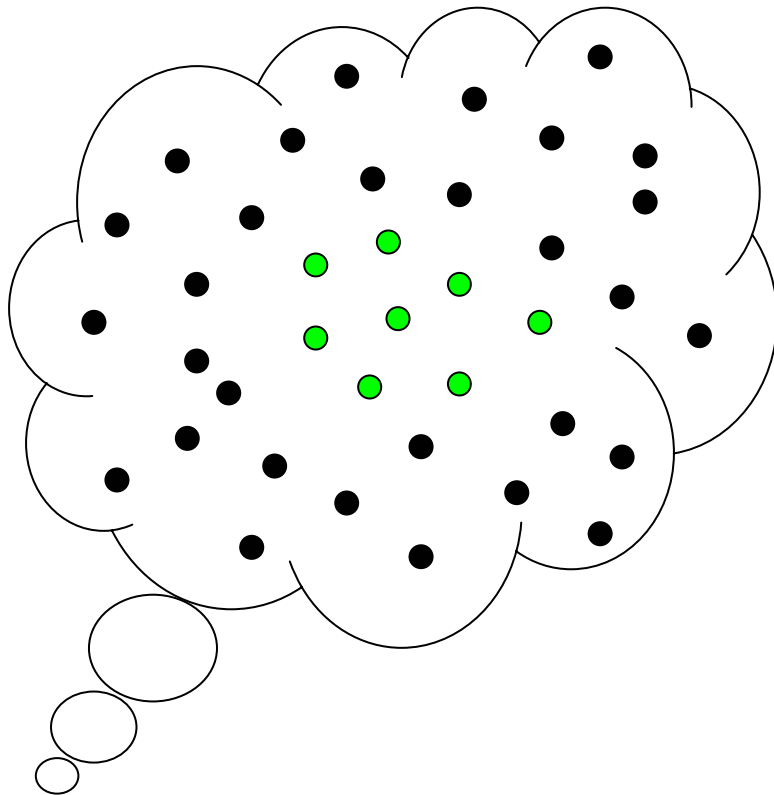
Sea Level
7% O₂
60 mmHg



Sea Level O₂ Equivalence

25,000ft
21% O₂
60 mmHg

Sea Level
7% O₂
60 mmHg



Reduced Oxygen Breathing Device (ROBD)

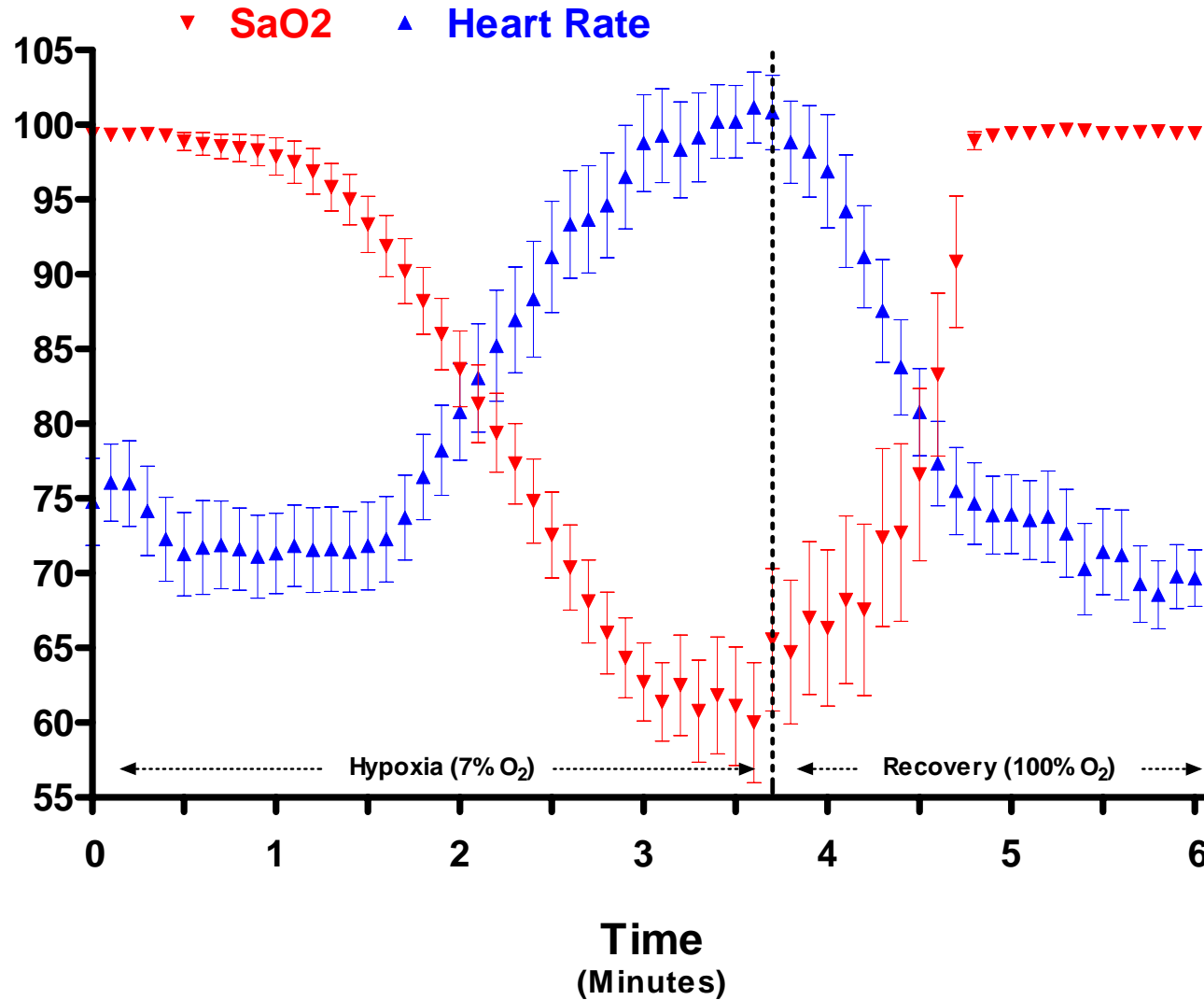




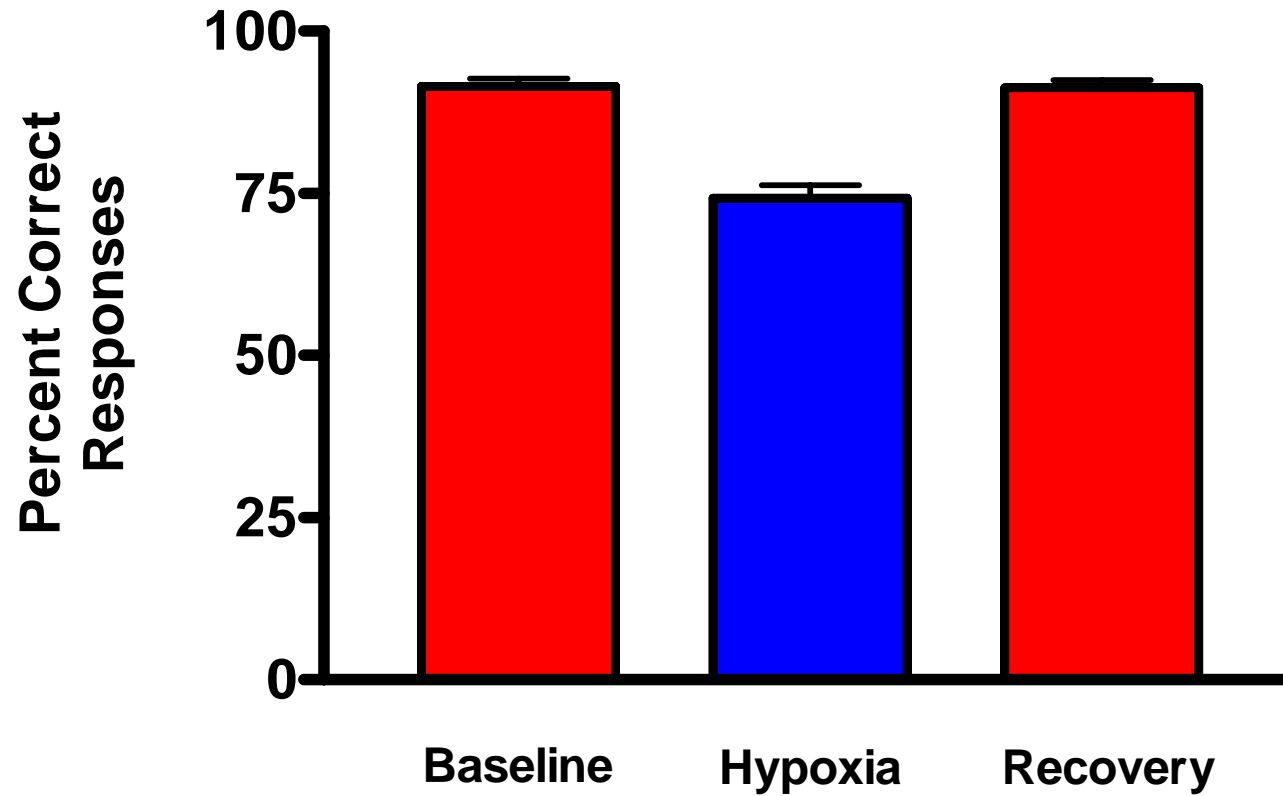
ROBD Evaluation

- **Subjects:**
 - 70 volunteers / Average age = 21 years
 - Healthy / No medications
- **Test Conditions:**
 - Exposed to 7% oxygen for 4 minutes using the ROBD
- **Data Collection:**
 - Physiologic: O₂ saturation, heart rate
 - Cognitive: Continuous performance test
 - Subjective: Hypoxia Symptom Questionnaire

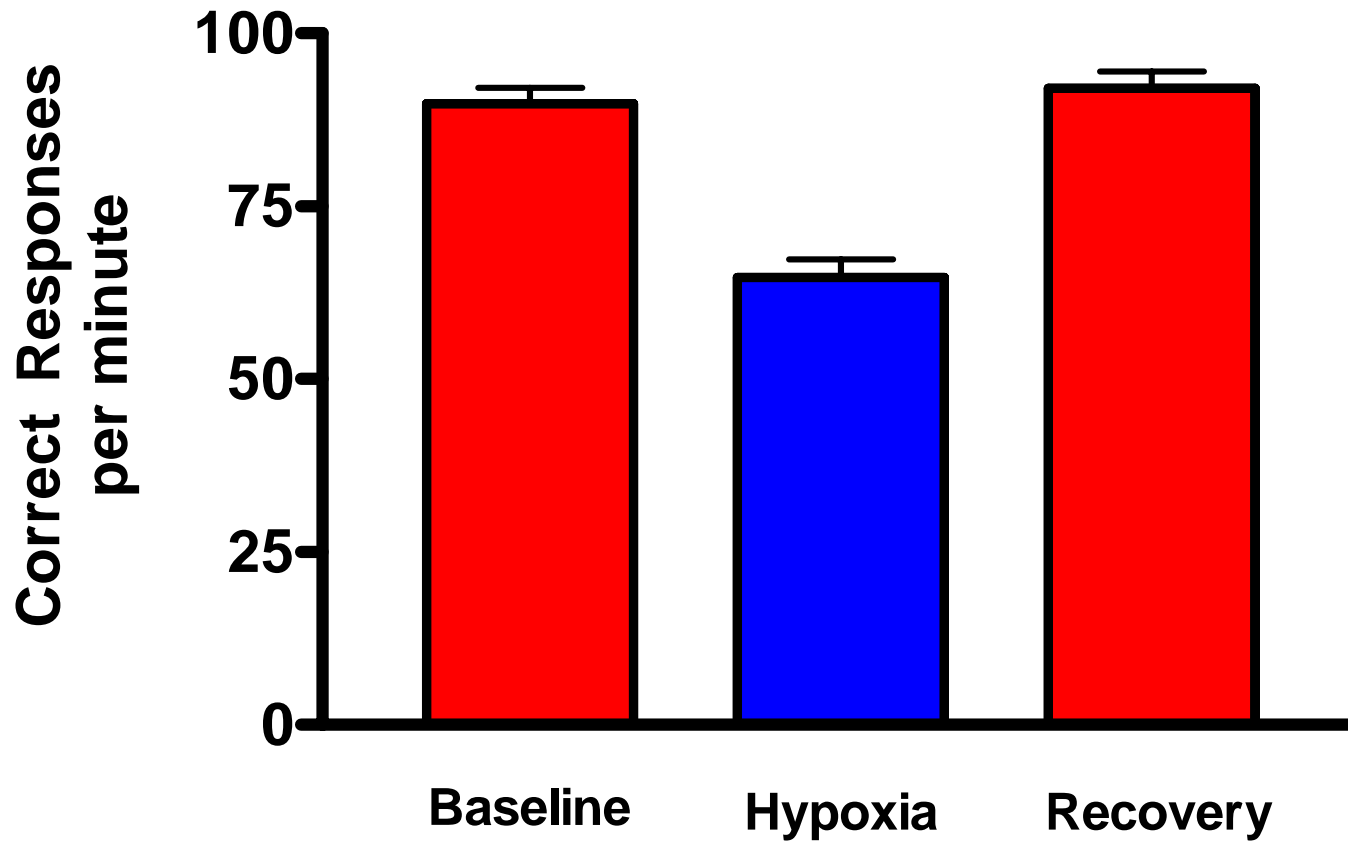
Heart Rate Effects



Cognitive Effects



Cognitive Effects



Time to Desaturation

