Helium

Cardioprotective Effect via:
- Pro-survival Signaling Kinases
- Inhibition of mPTP opening & formation
- Reactive Oxygen Species (including nitric oxide)
- Mitochondrial adenosine triphosphate-regulated potassium channels
- Opioid receptors
- Mitochondrial Uncoupling
- Ca2+-sensitive potassium channel activation

Neuroprotective Effects:
- Induction of Hypothermia
- Infarct Volume Reduction
- Improvement of Neurological Defecits
- Neuroprotection in Traumatic Brain Injury

Respiratory Applications:
- Upper Airway Obstruction
- Post-Extubation Stridor
- Croup
- Bronchiolitis
- ARDS
- COPD
- Acute Asthma Exacerbation
- Pulmonary Function Testing

Other Applications:
- Deep sea diving
- Insufflant in Laparoscopic Abdominal Surgery
- Improves gastrointestinal motility post laparoscopic abdominal surgery
- Helium Plasma Thermal Coagulation in Surgery
- Pulmonary MRI