

Case scenario:

- ASA 4 patient
- Morbidly Obese
- Aortic Stenosis
- Accelerating dementia
- Sleep apnea
- Respiratory failure
- Ventilated
- Requires MRI for diagnosis declining mental status

Specific challenges:

- Too big to fit in a standard MRI
- Open MRI unit only available at a free standing ambulatory surgery center
- No wall oxygen
- No wall suction
- No code team or cart



Implementation:

- Transport from hospital to ambulatory site via ambulance and paramedic team
- 4 non-ferrous oxygen E-cylinders
- Portable suction
- MRI compatible portable ventilator
- MRI compatible portable monitor
- MRI compatible syringe pumps
- Propofol sedation
- Phenylephrine infusion

Pitfalls:

- Inadequate calculation of oxygen requirement as the ventilator is driven by the oxygen source
- Unable to monitor remotely
- Poor access to airway supplies
- Machine still impinged on the patient's chest and breathing circuit