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To: [Simon Mollart](#)
Cc: [Claire Matheson](#)
Subject: Fw: Helium
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Sent: Tuesday, March 17, 2026 13:32
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Cc: Simon Mollart [REDACTED]@nhs.scot>
Subject: Helium

Hi all,

It was flagged in the UK wide supply disruption meeting that 1/3 of the global supply comes from Qatar. The UK doesn't source helium from Qatar but if the middle east conflict continues it could constrain global supply.

Medical products that use helium. [REDACTED] [Kenny Rees](#) MRI is probably the main risk, worth checking in with suppliers around resilience in place. Also know you mentioned lung scanning recently as well.

1. MRI scanners (critical use)

Product: Magnetic Resonance Imaging (MRI) machines

How helium is used:

Liquid helium is used to cool the superconducting magnets to ~269 °C

This enables zero resistance current flow and stable magnetic fields

Without helium, conventional MRI systems cannot operate

2. Respiratory therapy gases (Heliox)

Product: Heliox (helium–oxygen gas mixture)

How helium is used:

Mixed with oxygen (typically 70–80% helium)

Lower gas density reduces airway resistance and work of breathing

Clinical uses:

Severe asthma

COPD exacerbations

Upper airway obstruction (e.g. croup, post-extubation stridor)

3. Advanced lung imaging (specialist use)

Product: Hyperpolarised helium-3 lung MRI

How helium is used:

Helium-3 gas is inhaled and used as an MRI contrast agent

Enables high-resolution imaging of lung ventilation

Clinical uses:

Research and specialist diagnostics in COPD, emphysema, cystic fibrosis

4. Minimally invasive surgery (selective use)

Product: Laparoscopic insufflation gas

How helium is used:

Used as an alternative to CO₂ to inflate the abdomen

Reduces risk of respiratory acidosis in susceptible patients

5. Cryosurgery and ablation systems

Product: Cryoablation devices (e.g. argon–helium systems)

How helium is used:

Helium enables rapid thawing in freeze–thaw cycles

Critical to precise tissue destruction

Clinical uses:

Oncology

Cardiology

Pain management procedures

6. Medical research and high-resolution imaging

Products:

Helium ion microscopes

Analytical imaging platforms

How helium is used:

Enables ultra-high-resolution cellular and tissue imaging

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