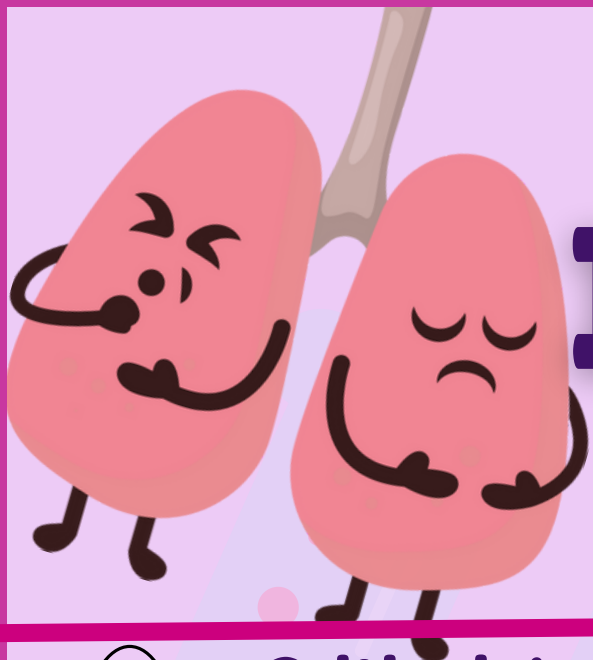
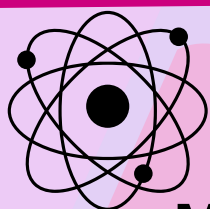




COPD Rescue: Is MgSO₄ Pulling Its Weight?



Critical Appraisal of Systematic Review

Magnesium sulphate for acute
exacerbation of chronic
obstructive pulmonary disease



11 RCTs included (n=762)
Most trials were **single-
centre studies**

Small sample sizes &
underpowered studies



In **refractory AECOPD**,
not responding to
bronchodilators & steroids,
IV MgSO₄ could:

- ✓ Reduce need for admission
- ✓ Shorten hospital LOS
- ✓ Improve patient dyspnea score



NO EVIDENCE

of difference between
IV MgSO₄ VS Placebo for:

- NIV
- Lung Function
- O₂ Saturation
- Adverse Event
- ICU Admission
- Intubation
- Mortality



MgSO₄ is beneficial as **ADJUNCT**



GRADE evidence certainty:
low to very low



Routine use **not supported** by
guidelines



Use may be justified in
refractory AECOPD or **resource
limited setting**



Take Home Message

MgSO₄ **MUST NOT** replace
standard of care in COPD

Reference: Ni H, Aye SZ, Naing C. Magnesium sulfate for acute exacerbations of chronic obstructive pulmonary disease. Cochrane Database of Systematic Reviews 2022, Issue 5. Art. No.: CD013506. DOI: 10.1002/14651858.CD013506.pub2.



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