

# GIVING IV MAGNESIUM SULFATE?



## BE AWARE

### IV MAGNESIUM SULFATE IS A HIGH RISK MEDICINE

Overdose can cause respiratory and neurological suppression which can be fatal

**50% Magnesium sulfate** should **NEVER** be used undiluted  
20% is the maximum strength for IV use

**A ready to use 20% preparation is preferable**  
as no dilution is required

Stop diluting and use **ready made products**  
**Simpler, Faster, SAFER**



**CHECK** The strength of preparation



**CHECK** You are NOT using multiple vials



**CHECK** Get your calculation checked by a colleague

## CALCULATIONS

are complicated due to %w/v, mmol, and mg, all being used in preparations

MAGNESIUM SULFATE  
50%w/v (5g in 10ml)  
SOLUTION FOR INJECTION  
(Magnesium sulfate heptahydrate  
Pi-Eur, approximately  
2mmol Mg<sup>2+</sup>/ml (20mmol in 10ml))