

Acoustics

In hospitals

BOWIQ
beyond acoustics

Hospital considerations

1) Acoustics



“Acoustics” in hospitals



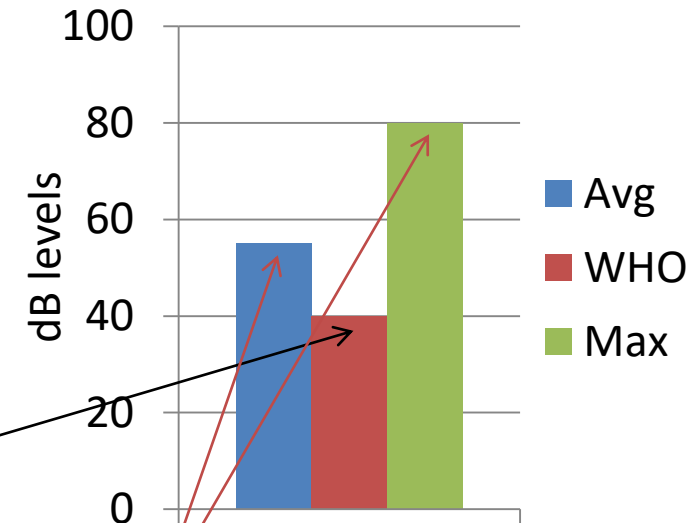
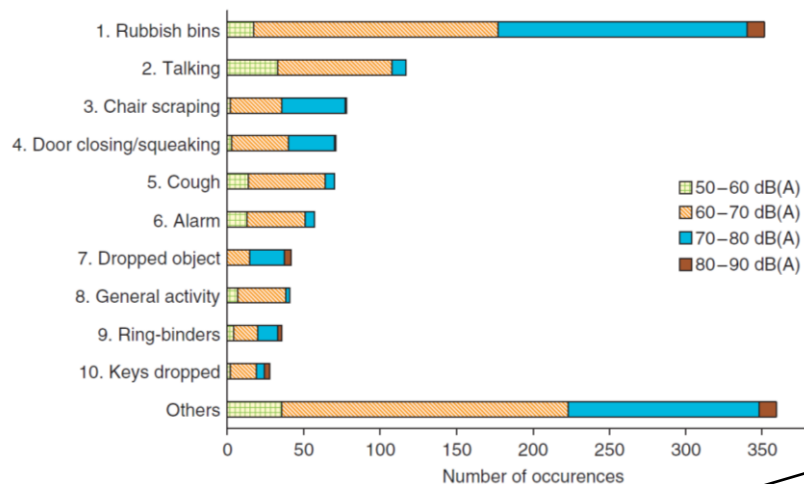
Unnecessary noise is the most cruel abuse of care which can be inflicted on either the sick or the well.

~ Florence Nightingale

AZ QUOTES

"Acoustics" in hospitals

1) Noise sources & levels



40 dB is the WHO guideline but avg is around 55 dB and higher

Hard surfaces reflect

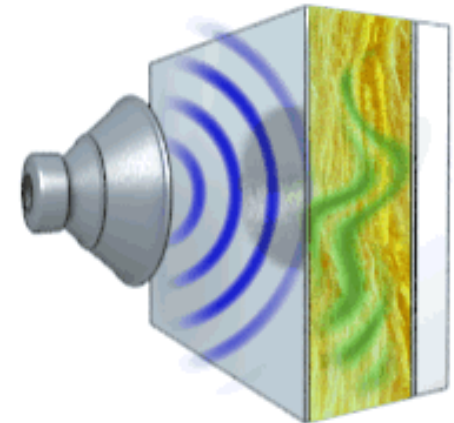


Acoustics in hospitals

Principle

- 1) Sound waves need to be absorbed not reflected
- 2) Hard surfaces reflect and cause reverberation which creates discomfort

Sound Absorption



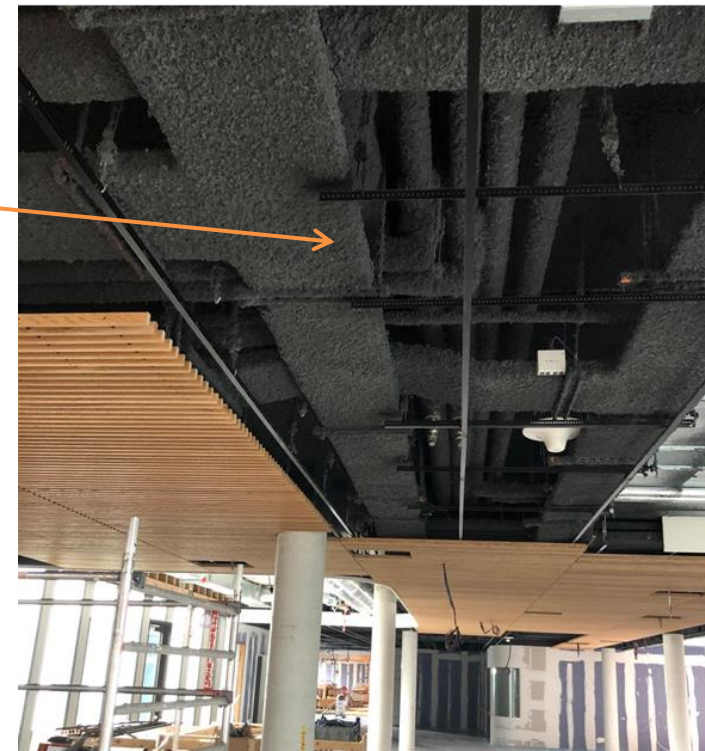
This effects the **Well** Being



“Acoustics” in hospitals

1) Studies have shown:

- 1) 3–6 dB sound reduction is seen when sound absorbing material is used
- 2) A reduction of 10 dB, is perceived as 50% less noise



Hospital in Meppel the Netherlands

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