Table 66: Heisler 2013²⁰³

Study	Heisler 2013 ²⁰³
Study type	RCT (Patient randomised; Parallel).
Number of studies (number of participants)	Single centre (n=137)
Countries and setting	Conducted in USA.
Line of therapy	Not applicable.
Duration of study	Intervention + follow up: 4 hours.
Method of assessment of guideline condition	Unclear method of assessment/diagnosis.
Stratum	Overall.
Subgroup analysis within study	Not applicable.

Terminally ill people who developed audible respiratory tract secretions with a noise intensity score of at least only very close to the patient). They were required to be capable of or have an acceptable surrogate capable o providing informed consent.
People were excluded if they had been treated with other antimuscarinic medications within the current inpat admission.
Age - Mean (SD): 77.2 (11.5). Gender (M:F): 51/86. Ethnicity:
Diagnosis - cancer (43.1%); Baseline noise score (ranging from 0 - inaudible to 3 - clearly audible at about 20 fe (19%); 2 (58%); 3 (23%)
No indirectness
(n=74) Intervention 1: Muscarinic acetylcholine receptor antagonist - Atropine. One-time dose sublingually. Tw of atropine (1 mg). Duration One-time dose. Concurrent medication/care: Not explicitly specified.
(n=63) Intervention 2: Placebo. Saline. Duration One-time. Concurrent medication/care: Not explicitly stated.

RESULTS (NUMBERS ANALYSED) AND RISK OF BIAS FOR COMPARISON: ATROPINE versus PLACEBO

Protocol outcome 1: Subjective or objective improvement in respiratory secretions at hours/days

- Actual outcome: Reduction (1 point or more) on a 4 point scale at 4 hours; Group 1: 27/68, Group 2: 31/60; Risk of bias: Low; Indirectness of outcome: No indirectness. - Actual outcome: Reduction (1 point or more) on a 4 point scale at 2 hours; Group 1: 28/74, Group 2: 26/63; Risk of bias: Low; Indirectness of outcome: No indirectness.

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Protocol outcomes not reported by the study	Quality of life at hours/days; Hospitalisation at hours/days; Subjective ratings from people on distress related to noisy
	breathing /respiratory secretions at hours/days; Sedation (patient-rated, clinician-rated, carer-rated) at hours/days;
	Adverse events (particularly paradoxical agitation, failure to expectorate, dry mouth at hours/days; Subjective ratings
	from informal carers' on distress relating to noisy breathing/respiratory secretions at hours/days; Hydration status at
	hours/days; Length of survival at hours/days; Length of stay at hours/days.

Care of dying adults in the last days of life Clinical evidence tables

Inclusion criteria

Exclusion criteria

Extra comments

Interventions

Funding

Age, gender and ethnicity

Indirectness of population