Oral health and Pneumonia in Care Homes

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WHAT

HOW

WHY

Northamptonshire Healthcare
NHS Foundation Trust
WHY
220,000 per annum = £1.5 million

200,000 per annum = 2.3 million = 920 million

29,000 per annum = 3rd highest in Europe

Number of people per 100,000 who developed pneumonia, by age group, 2004–12
Reduce morbidity
Reduce mortality
Reduce costs

..... Improve Quality of Life
Evidence summary: the relationship between oral health and pulmonary disease

- M. Walshaw
- R. Fitzgerald
- J. Doughty
- K. L. Wanyonyi
- S. White
- J. E. Gallagher
Aim

• Explore the most contemporary evidence on whether poor oral health and pulmonary disease occurs in the same people
• Outline nature of relationship between these health outcomes
• Discuss implication of findings for health services and future research.
Rapid Review Methodology

• Rapid review synthesises most current and best evidence.
• Combines elements of systematic reviews in stream-lined approach to summarise available evidence in a timely manner.
Rapid Review Methodology

Identification

- Records identified through database searching (n = 272)
- Additional records identified through other sources (n = 0)

Screening

- Records after duplicates removed (n = 176)

Eligibility

- Records screened (n = 176)
- Records excluded (n = 141)

Full-text articles excluded
- No mention of oral health or any pulmonary disease
- Not available in English
- Full text not available after contacting authors
- An updated, more recent review by the same author group exists (n = 12)

Included

- Full-text articles assessed for eligibility (n = 35)
- Studies included in quantitative synthesis (n = 23)
Rapid Review Methodology

PRISMA

• Evidence-based minimum set of items for reporting in systematic reviews and meta-analyses.
• Focuses on the reporting of reviews that evaluate RCTs
• Can also be used as a basis for reporting systematic reviews of other types of research.
Community acquired pneumonia

• Moderate evidence patients with plaque deposits increased risk of pneumonia

• High to moderate evidence that oral hygiene interventions reduce the risk of pneumonia by 67% in frail older people

• Moderate evidence that oral hygiene interventions reduce morbidity and mortality
HOW
• Tooth brushing … assisted if the person cannot do this for themselves

• Plus chlorhexidine in frail older people

….. Helps reduce the bacterial load that contributes to aspiration pneumonia
WHAT
• Disseminate
£26,302 - £29,333 per EDDN
Prevent pneumonia and associated ill health & death

Improve oral hygiene

CLARITY - WHY
DISCIPLINE - HOW
CONSISTENCY - WHAT

MECC
Thank-you