

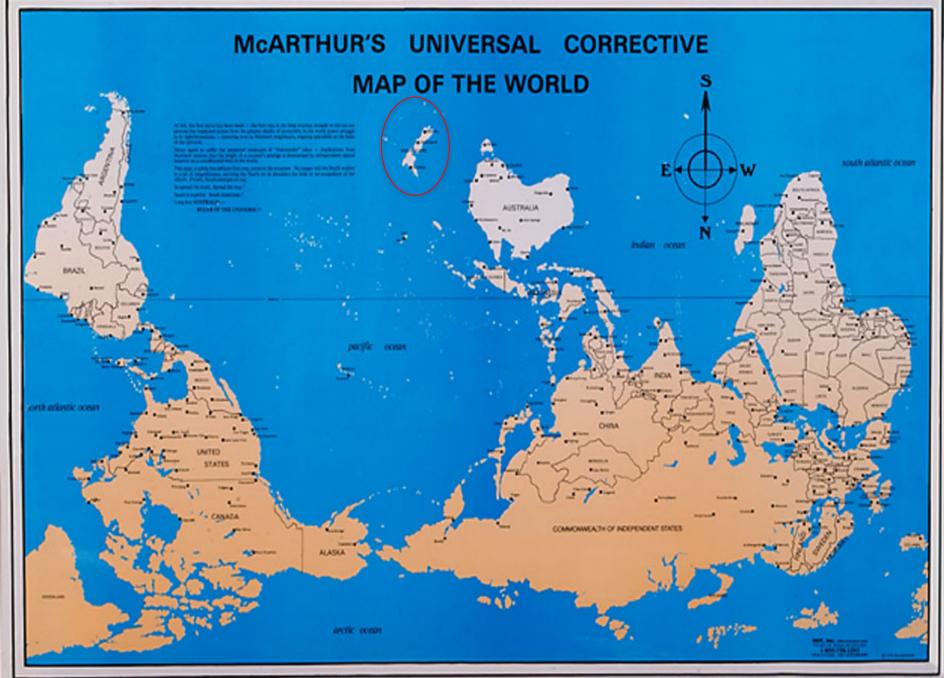
Comparison of the end of life experience for those with cancer, dementia and chronic Illness in residential aged care in New Zealand:

A retrospective, cross-sectional study

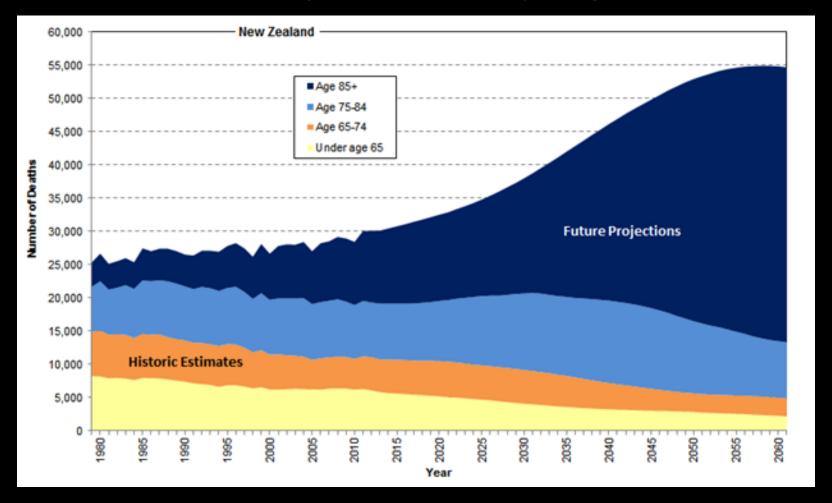
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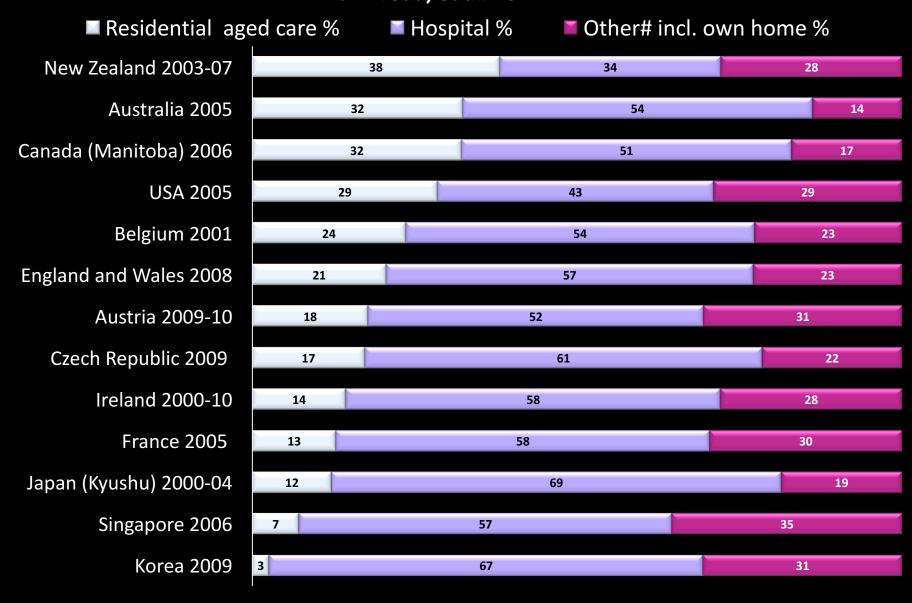


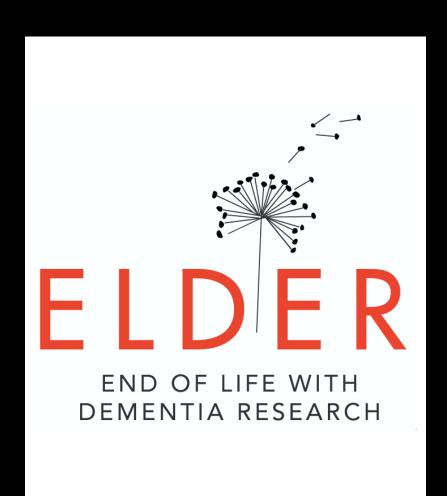
New Zealand Historic Deaths and Future Projections by Age Band



Heather McLeod, Palliative Care Council, July 2013. Drawn using data from Statistics New Zealand; personal communication Joanna Broad.

International Comparison of Place of Death for those >65 JB Broad, et al. 2012







Research Team:

Michal Boyd (lead), Deborah Balmer, Susan Foster, and Rosemary Frey

This project is co-funded by the MBIE National Science Challenge: Ageing Well &

Perpetual Guardian Trust Ted and Mollie Carr Trust



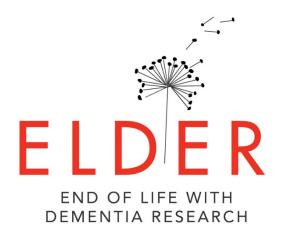
ELDER Objectives

 Explore quality of death in residential aged care from staff and family perspectives

Based on methods from:

Vandervoort A, Van den Block L, van der Steen J T, Volicer L, Stichele R V, Houttekier D and Deliens L. Nursing Home Residents Dying With Dementia in Flanders, Belgium: A Nationwide Postmortem Study on Clinical Characteristics and Quality of Dying. JAMDA. 2013;14:485-92.

ELDER included assessment of all deaths over a three month period



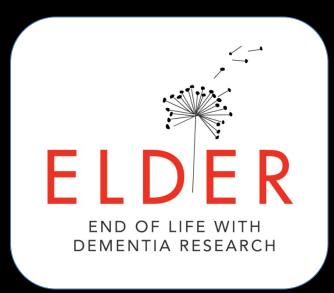
Methods:

- Mixed methods approach
- •Representative random sample of facilities across New Zealand
 - Stratified by size, ownership (profit/non-profit), and area
- •Monitor deaths for 3 months in each facility
- •Follow up each death with an standardised staff questionnaires:
 - Diagnoses at the time of death and dementia diagnosis and stage
 - Diagnoses at time of death, symptoms before death
 - Standardised quality of death questionnaires QUALID, CAD-EOLD, SM-EOLD
 - Manager, GP/NP, RN, Healthcare Assistants (HCA)
- Qualitative Interviews with convenience sample of staff and families

Sample

Auckland January – March 2016 64 deaths

Wellington
April – July 2016
73 deaths



Christchurch
August – November 2016
92 deaths

61 Facilities

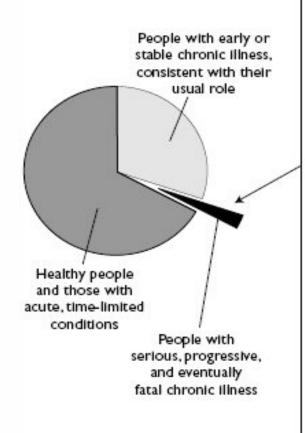
(60% of those approached)

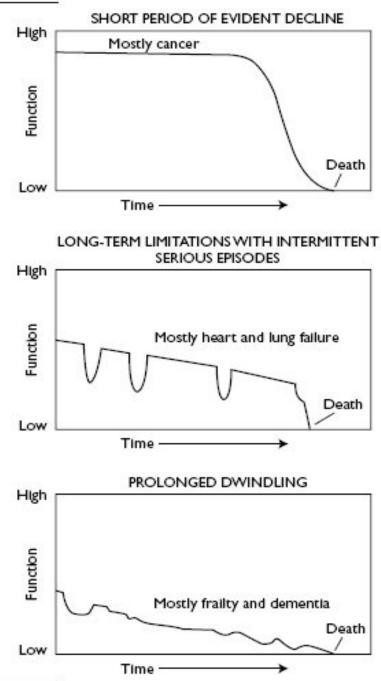
3702 beds 286 Deaths Dunedin September – November 2016 34 deaths

Whangarei
November 2016 – February 2017
23 deaths

Trajectories of Illness Over Time

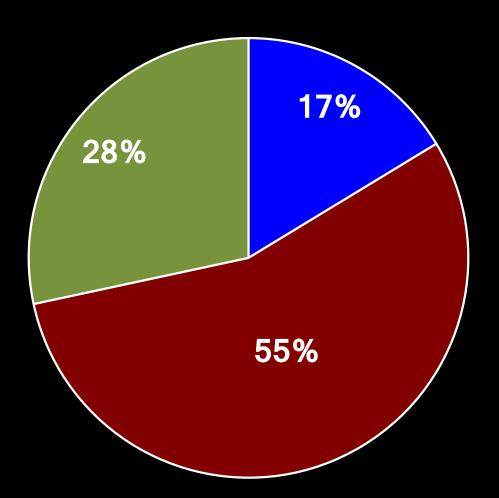
Lynn and Adamson, 2003





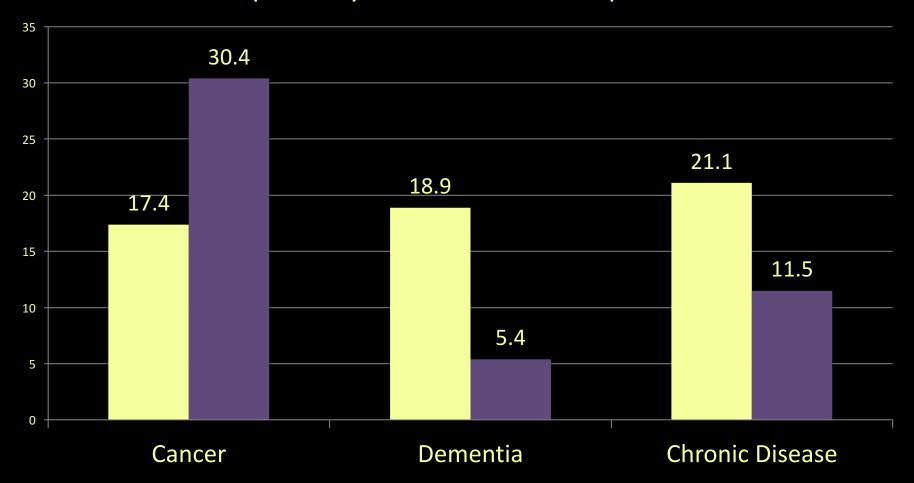
Primary Diagnosis at Death

□ Primary Dx Cancer □ Primary Dx Dementia □ Primary Dx chronic disease

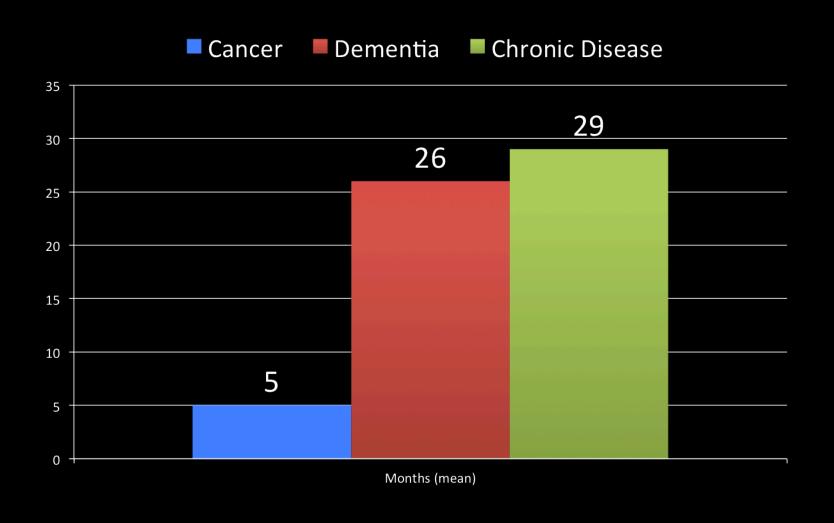


End of Life Care Support: % by primary diagnosis

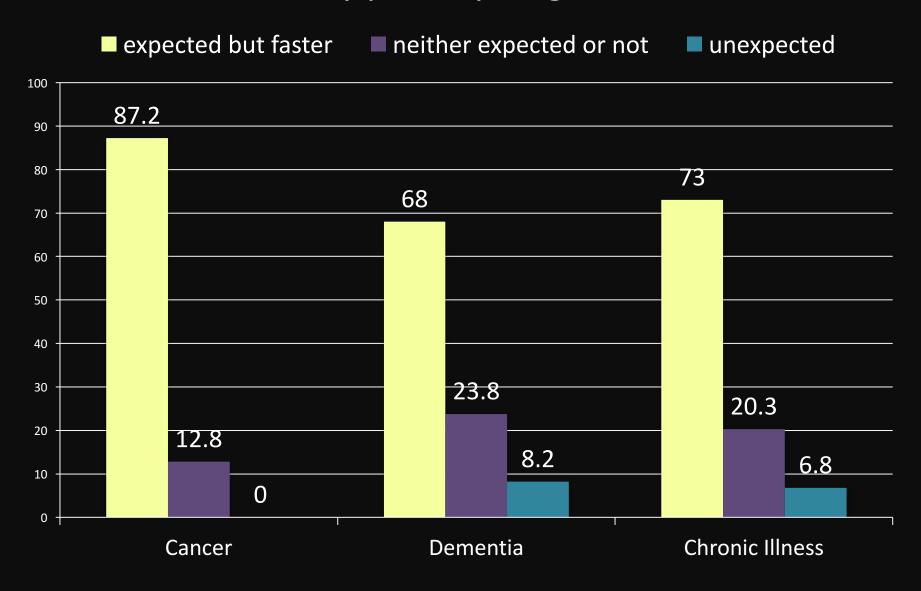
■ End of life pathway used ■ Local hospice involvement?



Residential Aged Care Length of Stay



Expected/Unexpected Deaths: % by primary diagnosis

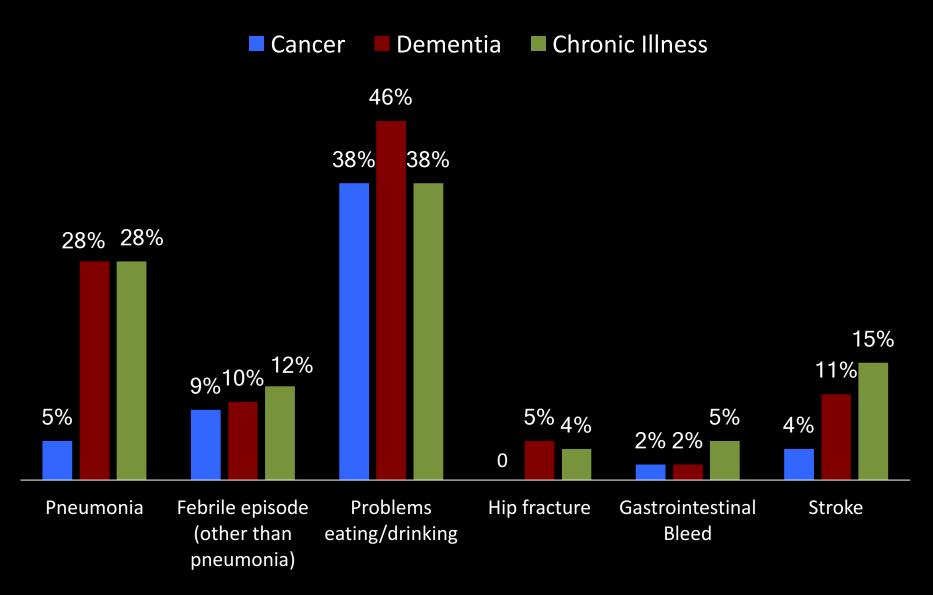


Aged differences by primary diagnosis

Table 2 Sample demographics (n = 286)

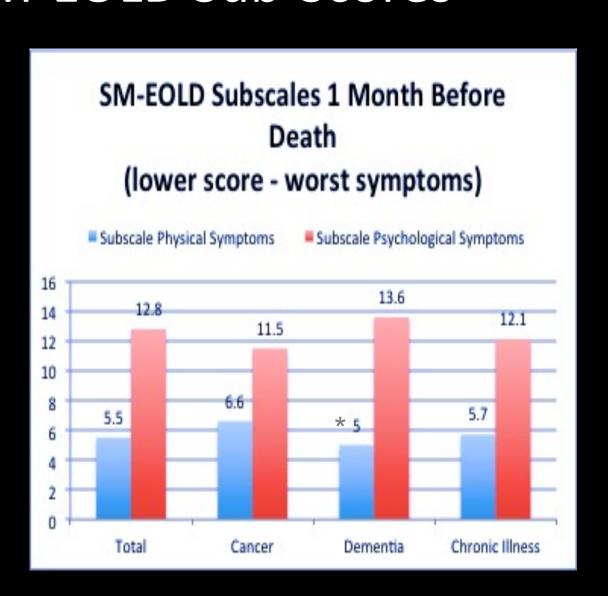
		Diagnosis Category			
	total sample n (%)	Cancer n (%)	Dementia n (%)	chronic disease n (%)	
	285 (100%)	n=47 (16.4%)	n=158 (55.2%)	n=80 (28.0%)	P Value*
Age					
<65 years	14 (5.0)	9 (19.6)	3 (1.9)	2 (2.5)	
66-75 years	23 (8.2)	8 (17.4)	13 (8.3)	2 (2.5)	
76-85 years	63 (22.3)	11 (23.9)	35 (22.4)	17 (21.3)	
86-95 years	141 (50.0)	13 (28.3)	89 (57.1)	39 (48.8)	
>96 years	41 (15.5)	5 (10.9)	16 (10.3)	20 (25.0)	
Mean Age (Mean ± SD)	86.32 (10.23)	79.32 (13.77)	86.85 (8.59)	89.33(9.05)	0.001

Sentinel events in the month before death

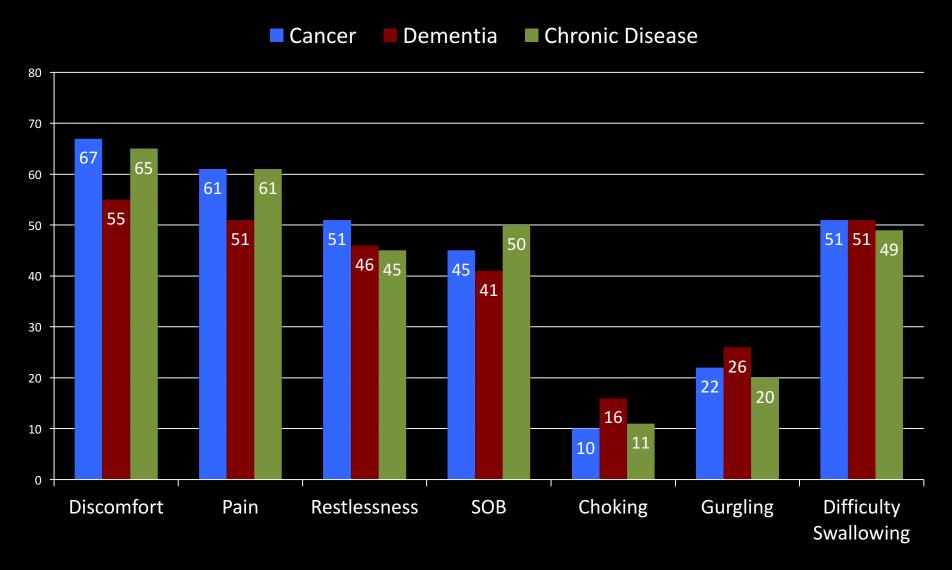


Mean EM-EOLD Sub-Scores

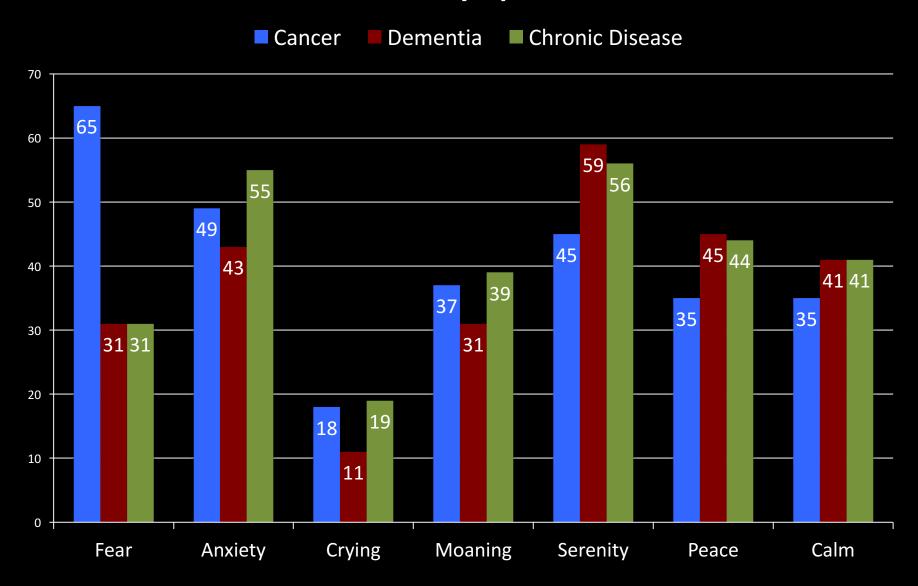
- Physical Sx Subscale
 - Pain
 - Breathlessness
 - Skin Breakdown
- Psychological Sx Subscale:
 - Calm
 - Depression
 - Fear
 - Anxiety
 - Agitation
 - Resistive to care



CAD-EOLD Symptoms Last Week of Life: % with symptoms



CAD-EOLDE Symptoms Last Week of Life: % with Symptoms



Two Paradigms: Advanced Frailty and Palliative Approach

Advanced Frailty Care

- Death is difficult to predict
- Long term interventions for multiple gerontology issues
 - Weight
 - Skin integrity
 - Falls
 - BPSD
 - Cardiorespiratory issues
- "Palliative" is understood to be end of life care
- The focus is on adaptation to functional deficits
- Curing and comfort interventions occur together

Palliative Approach

- Identification of palliative need
- Advanced Care Planning
- Diagnosing dying
- Last days of life guidelines
- Bereavement support
- Staff debriefing after death

Palliative Care Understanding

...did you hear the word palliative care? What does it mean to you?

I wouldn't say that I had an acute understanding, I just had a general idea that it referred to looking after people as they are dying, and trying to make the dying process as comfortable as possible.

...in my heart of hearts, I didn't really think it was relevant to us...it was up fairly late in the piece, and fairly late in the whole scheme of things, before I really accepted that, she wasn't going to get better. So, I had a general idea of what it meant, as far as any lay person can, I guess.

Residential Aged Care

In-patient unit Hospice

Resident to RN ratio:

>20 to 1

GP availability variable 55% without 24 hour 'On call' GP RN to Patient Ratio: 2-3 to 1

Palliative Care Consultant or GP usually available

High Staff Turnover
Few Multi-Disciplinary Team
Members available

Social Worker, Chaplain, Volunteers
Complimentary Therapy,
Counselling



Where to From Here?

Specialist or Generalist?

Gerontology

Palliative Care

Conclusion

- Primary diagnosis makes no differences in the symptoms the last week of life
- People with dementia, and chronic disease have more gerontology symptoms of concern for a longer period of time
 - Traditional palliative care models don't fit the needs of advanced frailty
- Integration of palliative and gerontology providers: both need to learn from each other
- Other ELDER papers in process:
 - for profit/non profit and facility size palliative care comparison
 - cost and healthcare utilization by diagnosis at end of life
 - Qualitative analysis 113 interviews, e.g., facility death rituals description
 - staff palliative care confidence and compassion fatigue, e.g. in relation to spirituality beliefs
- SHARE intervention study integration of specialist palliative and gerontology in residential aged care

Thank You.





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