Experience of Care during the End of Life: A Population-Based Mortality Follow-back Study

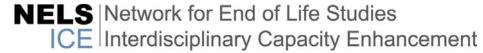
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Background

- Past research has identified variations in health service utilization by population characteristics
 - Among cancer patients:
 - Elderly less likely registered with a palliative care program
 - Males more likely to die in hospital.
- Are these variations inequalities or inequities?
- Focus has been on cancer
 - Little knowledge of service use among people dying of disease other than cancer.



Information gaps we seek to fill ...

- An estimation (or tentative definition) of "need"
- Data on decision-making and choices ("wishes")
- Location of EOL care; provided by whom
- Overall experience of EOL care
- Inclusion of all chronic disease deaths.



Project goal

 To examine the experience of end of life care (EOLC) among adults in Nova Scotia and to identify unmet needs & unfulfilled wishes regarding care preferences and satisfaction with EOLC using a population-based approach.



Specific objectives

From the perspective of the informant:

- 1. Estimate the prevalence of unmet need
- Estimate whether decedent care preferences (wishes) were fulfilled
- 3. Estimate the satisfaction with EOL care received
- 4. Examine the associations between age, sex and location of care with decedent unmet need, unfulfilled care preferences (wishes) & satisfaction with EOL care.



Approach – Mortality follow-back survey

- A population-based design strategy to describe the events around death
 - Used in the UK, USA and Italy
- Retrospective data collection
 - Family or informal caregivers (informants)
- Allows representative sampling of decedents
 - Avoids challenge of identifying who is terminally ill
 - Burdening the very ill
 - Reduces the risk of missing data due to poor function, cognition etc.
- Limitation: validity of proxy responses.



Method

Design

- Population-based mortality follow-back survey
 - Administered by telephone

Subjects

- Death certificate informants of all who died within 4-9 months of sampling date (target n=1200)
- Exclusion criterion:
 - <18 years at death</p>
 - Death due to external causes, medical or surgical complications, war, assault, accidents, self-harm
 - Incomplete informant contact information.



Process

Population

All eligible deaths between June 1, 2009 to May 31, 2011, (~15,000 over 2 years)

Subjects

'Informants' listed on the death certificate

Contacted in six 'waves', every 4 months, 4 to 9 months following the decedent's date of death

Contact

Initially by mail (express post) via Nova Scotia Vital Statistics

- Letter of invitation, study information
 Interested informants return their contact information to researchers
 - Telephone interviews are then arranged

Survey

- 'After-death bereaved family member interview' (Teno J et al. 2004)
 - Good validity, reliability
 - Adapted for Canadian use
 - Added a number of questions of interest to the study
- Items target care, needs and care preferences (wishes) for both the last month & last few days of life.



Primary outcomes

- Unmet need
 - Physical comfort & emotional support
 - Pain control, breathing problems, anxiety or sadness
 - Focus on individual
 - Help with personal care, treatment with respect & dignity
- Unfulfilled care preferences (wishes)
 - Advanced care planning
 - Desire for medical treatment, medical procedures & provision of care being consistent with decedent wishes
- Location of death (desired vs realized)
- Satisfaction.



Where are we now ...

Process

- Now in the 3rd year of 4
 - Wave 1: February 2010
 - Wave 5: June 2011
 - Wave 6: October 2011

Participation

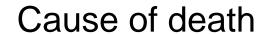
- Invitations sent: 4268
 - 311 known to be non-eligible (not delivered; contacted as a sudden death)
 - Total potentially eligible: 3957
- Response rate: 26%
 - ~ 800 interviews completed (Aug/11).

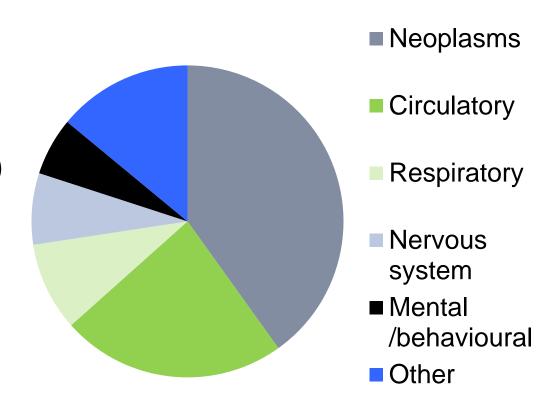


Preliminary findings

Decedent characteristics (n=621)

- 54% female
- 48% married
- Mean age 79.3 (SD 12.3)
- 22% lived alone
- 57% palliative care involvement





Preliminary findings

- Location of majority of care during last 30 days
 - Home (42%), hospital (30%), long-term care (28%)
 - 69% of patient days were spent in the community (home or long term care)
- Most voice the desire to die at home (70%); few do (23%)
 - Highlights the need to support those who wish to die at home
- EOL information, help & care is provided at home primarily by nurses & informal caregivers
 - Opportunities for Primary Care to fill some gaps
- Satisfaction with care
 - Trend toward lower ratings of care provided in hospital.



Challenges

- Low response rates
 - Reflect inability to contact potential participants directly
 - Cannot identify sudden deaths (ineligible)
 - Incorrect informant names/addresses listed on death certificates
- Survey design / telephone administration
 - Wonderful interview team, but there is an emotional toll
 - Participants often frustrated by the structured interview ...
- Survey tool
 - Best fits a death trajectory with a steady decline, such as cancer
 - Loss of narrative.



The Rewards

Wealth of EOLC information

- First Canadian population-based estimates of patient need & care preferences at the EOL
- Comprehensive information on all adult deaths due to chronic disease, going beyond cancer

Respondents are openly thankful

- To Dalhousie Family Medicine for conducting this survey
- For a listening ear
 - To hear their stories
 - Share their grief
 - Share criticisms with the hope of making changes in the system
 - For providing them the opportunity to potentially make a difference.



Next steps

- Qualitative study
 - Follow-up on:
 - The unmet needs and wishes identified from the survey
 - · What works.

