

Exploring the Geriatric Needs

of Oncology Inpatients at an Academic Cancer Centre

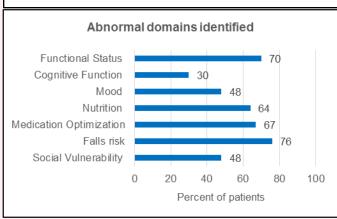
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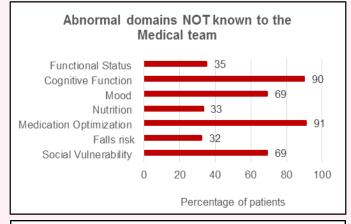
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BACKGROUND

- -In the next 10 years in the United States the number of older adults over age 65 will double, contributing to about a 45% increase in the number of cancer patients¹ . The statistics in Canada are very similar.
- -Clinical trials in oncology lack data that include older patients therefore making it more difficult to make treatment decisions for this age group that are evidence-based $^{2.3}$
- -Over the last few years it has been shown that Geriatric Assessments (GA's) in older adults with cancer have informed treatment decision making and refined survival prediction, however most centres have not adopted this as routine practice.
- Moreover, although studies of GA in older cancer patients have been shown to be feasible in both inpatient and outpatient settings, the vast majority of studies have taken place in outpatient settings.⁴
- -In contrast, in the world of geriatric medicine, the strongest evidence of benefit from GA and management that have been shown in randomized controlled trials were done in inpatient settings.
- -Oncology patients have been assessed in ACE units and results have shown these patients have a high prevalence of geriatric syndromes and disability.
- -Older cancer patients are admitted to hospital often for initiation of treatment, symptom control related to their cancer diagnosis or complications of treatment.
- -Often in large centres they are not cared for directly by their primary oncologist during their hospital stay
- -Hospitalization of these patients provides an opportunity to address issues that might have gone undetected in the outpatient setting.

ABNORMAL GERIATRIC DOMAINS





METHODS

Cross-sectional academic single-centre Observational pilot study

Inpatients screened on the Medical Oncology and Radiation Oncology wards

nclusion Criteria

(1) Age 65+

(3) Able to speak

(4) Admitted to PMH to either Medical or Radiation oncology

A standardized GA was done on consenting patients who met inclusion criteria

Chart review done to determine if issues identified in GA were known to the team and how they were being managed

Findings of the GA summarized and provided to the (1) MRP by email (2) Hospitalist

Summary of findings and highlights of Geriatrics domains provided to the MRP and placed in patient's chart

A 5-item survey sent to the MRP

356 inpatients screened \Rightarrow 139 (39%) over age 65 \Rightarrow 100 patients did not meet inclusion criteria \Rightarrow 39 patients approached \Rightarrow 33 Patients included in the study (85% of patients approached)

RESULTS

FEEDBACK FROM CLINICIANS

GA results were helpful: 67% (10/15) GA results would have an impact on manag (5/15). Overall response rate: 45% (15/33) gement of my patient: 33% Agree

LIMITATIONS

- Small sample size and single institution study.

 This study was conducted at one time point during the patient's hospital
- admission
- Some of the physical performance tests used as frailty markers were not always feasible to complete

TABLE 1

., (2)			., ,,
Patient characteristics			<u>Geriatri</u>
Characteristics	Result s		Functional status
		П	ECOG 0-1
Total N of patients	33	П	ECOG 2-3
Age,	75	П	Mini-Cog
mean and range	(65-85)	П	Abnormal
Gender (n)		П	Mobility
Male		П	History of Falls
Female	19	П	>= 1 fall in the last 6 months
Tumour type		П	
GI		П	Pain and fatigue affecting manage daily activities
GU	Ŭ	П	Pain
Breast		П	Fatique
Lung		П	Mood
H&N	17	П	Abnormal PHQ-9
Stage	7	П	Sleep
Local		П	· · ·
Locally advanced		П	Sleep concerns or using a s
Metastatic Admission unit	10	П	Vision
Admission unit		П	Fair or poor
Medical Oncology	8	П	Hearing
		П	Fair or poor
Radiation Oncology	25	П	Social History and vulnera
Medical		П	Alcohol use (>5 servings per
Comorbidities		П	Smoking history
Charlson score 0-3	28	П	Home safety concerns
Originson Score 0-3	20	П	Community supports (>1 of
Charlson score >=4	5	П	family/CCAC/private help)
Number of		П	Medication management p
Medications		П	Forgot to take medications v
<5	6		weeks of admission
5 to 10	17	П	Difficulty following current to
>10	10	J	Blister pack or dossete use

TABLE 2

Geriatric Domains				
Functional status	% of patients			
ECOG 0-1	39			
ECOG 2-3	61			
Mini-Cog				
Abnormal	45			
Mobility				
History of Falls	40			
>= 1 fall in the last 6 months	43			
Pain and fatigue affecting ability to manage daily activities				
Pain	60			
Fatigue	73			
Mood				
Abnormal PHQ-9	45			
Sleep				
Sleep concerns or using a sleeping aid	40			
Vision				
Fair or poor	40			
Hearing				
Fair or poor	39			
Social History and vulnerability				
Alcohol use (>5 servings per week)	12			
Smoking history	76			
Home safety concerns	9			
Community supports (>1 of family/CCAC/private help)	30			
Medication management post discharge				
Forgot to take medications within two weeks of admission	24			
Difficulty following current treatment plan	24			

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CONCLUSIONS

- 1. Feasibility: This pilot study demonstrated the feasibility of a GA in an inpatient oncology setting with 95% (37/39) recruitment rate and 34/36 patients able to successfully complete the assessment, with an average time of 35mins.
- 2. High Number of abnormal geriatric domains: On average each patient had 5/7 abnormal domains.
- -The most common abnormal domains identified were falls risk functional status, medication optimization and nutrition (in $\gt50\%$ of
- -Cognitive function, mood and social vulnerability were identified as abnormal in 30-50% of our patient population.
- 3. The most common abnormal domains that were NOT known to the medical team include medication optimization (91%), cognitive function (90%), mood (69%) and social vulnerability (69%).
- 4. Hospital admissions of older cancer patients provide an opportunity to give high quality care to this vulnerable population of patients. This is especially true in helping address areas under-recognized such as medication optimization, cognition, mood and social vulnerability.

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