Integrating Research into Practice: Nurse Telephone Support to Improve Outcomes and Emergency Room Utilization for Patients Receiving Chemotherapy

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1

Problem

-Oncology Symptom Management

-Most patients experience side effects to cancer treatment and most report more > one side effect

-patients often experience and manage symptoms at home

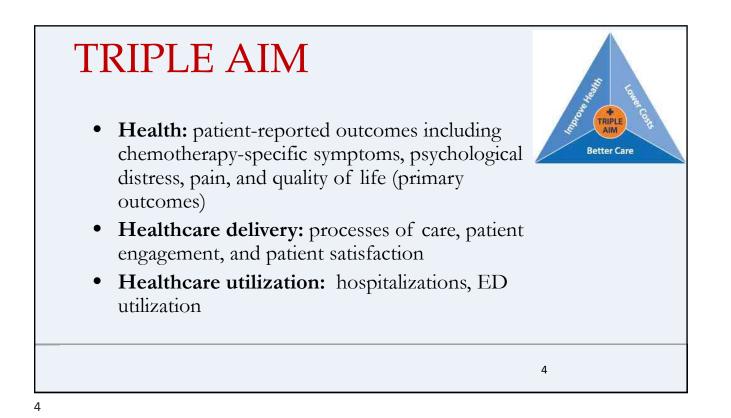
-Nurses are a vital link and often the first point of contact -

>50% of nurses also provide telephone support (Macartney 2012)

-Symptom clinical practice resources are often not formatted for use in clinical practice (Stacey, et al., 2013)

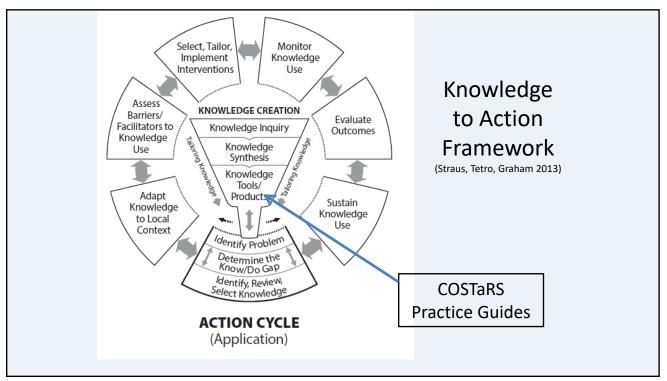
-Unplanned ED visits can potentially be averted with nursing intervention in oncology settings. (Bell, et al, 2017)











Evidence-based Symptom Guides: pan-Canadian Oncology Symptom Triage and Remote Support (COSTaRS) Are informed by clinical practice guidelines If elements are missing, likely because no supporting evidence from guidelines Meet rigour criteria for guidelines (AGREE II-rigour) Make explicit the recommendations Linked to evidence Based on systematic review for guidelines Reviewed by experts across Canada Are usable in practice beyond a resource on the shelf Can be integrated in electronic health record Use plain language – Flesch-Kincaid Grade 6.4 (Stacey et al., 2013)

COSTaRS: 15 Symptoms

- Anorexia
- Anxiety
- Bleeding
- Breathlessness/dyspnea
- Constipation
- Depression
- Diarrhea
- Fatigue/tiredness

- Febrile neutropenia
- Mouth sores/ stomatitis
- Nausea/vomiting
- Pain
- Peripheral neuropathy
- Skin reaction
- Sleep problems

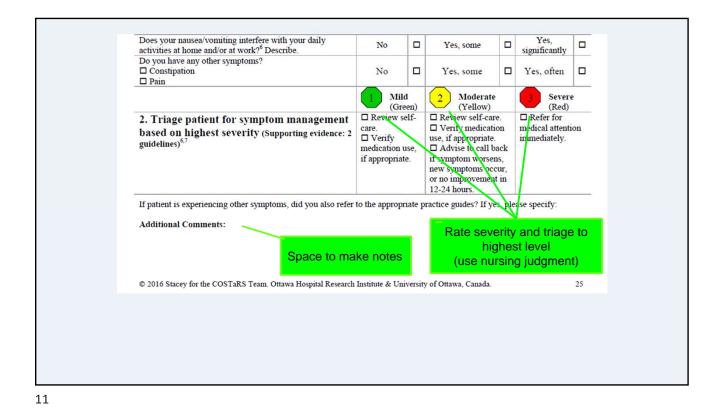
COSTaRS

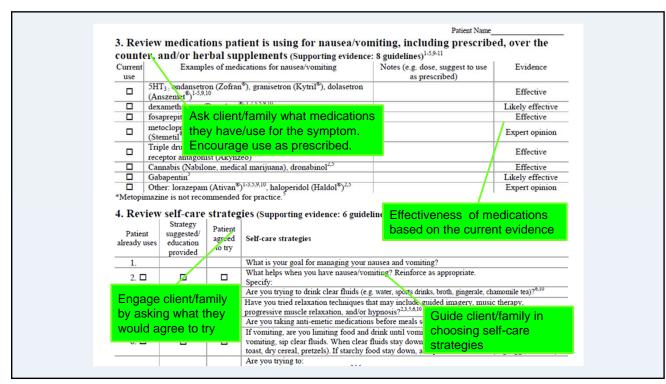
- 1. Rating Symptom Severity
- 2. Triage 🚺 🔁
- 3. Review Medications
- 4. Self-Care Strategies
- 5. Summarize and document plan

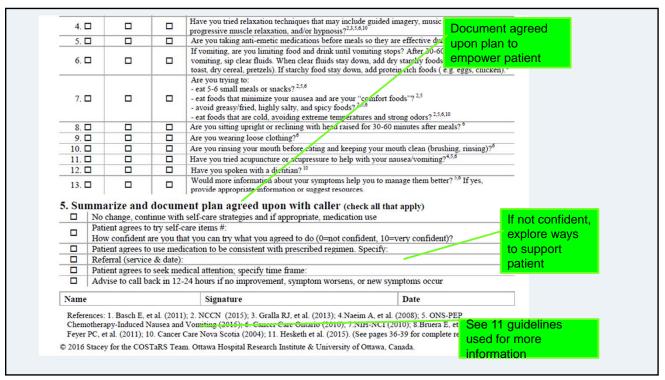


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Nausea & Vomiting Practice Guid Nausea: A subjective perception that emesis may occur. Feelin Vomiting: A forceful expulsion of stomach contents through th may include retching (gastric and esophageal movement without dry heaves.) ^{6,10} 1. Assess severity of nausea/vomiting (Supporting	ng of queasin he mouth and out vomiting	d _	Sex Ask p sever Date and (none possi	atie ity o) to	uestion nt to rate n scale of 0 10 (worst	
Tell me what number from 0 to 10 best describes your nausea						
No nausea 0 1 2 3 4 5 6	7 8 9	10	Worst possible nau	isea ⁸	ESAS)	
Tell me what number from 0 to 10 best describes your vomitin No vomiting 0 1 2 3 4 5 6 How worried are you about your nausea/vomiting?	ıg? 7 8 9	10	Worst possible vo	the	k patient al ir sympton sess sever	n to
Not worried 0 1 2 3 4 5 6 Ask patient to indicate which of the following are present of $\frac{1}{168}$		10	Extremely worned			
Patient rating for nausea (see ESAS above) ^{1,6,8}	1-3		4-10	-	7.10	-
Patient rating for vomiting (see ESAS above) ^{1,6,8} Patient rating of worry about nausea/vomiting (see above) ⁶	1-3 0-5		4-6		7-10	
How many times per day are you vomiting or retching? ^{1,6,7,10} □No vomiting	<u><1</u>		6-10 2-5		≥6	
Have you been able to eat within last 24 hours?6,7,10	Yes		No			
Have you been able to tolerate drinking fluids? 6,7,10	Yes				No	
Are you feeling dehydrated, which can include feeling dizzy, a dry mouth, increased thirst, fainting, rapid heart rate, decreased amount of urine? ^{6,10}	No		Yes, some		Yes, significantly	
Do you have any blood in your vomit or does it look like coffee grounds? ⁶ □No vomiting	No				Yes	
Do you have any abdominal pain or headache? ⁶	No/Mild 0-3		Moderate 4-6		Severe 7-10	







13

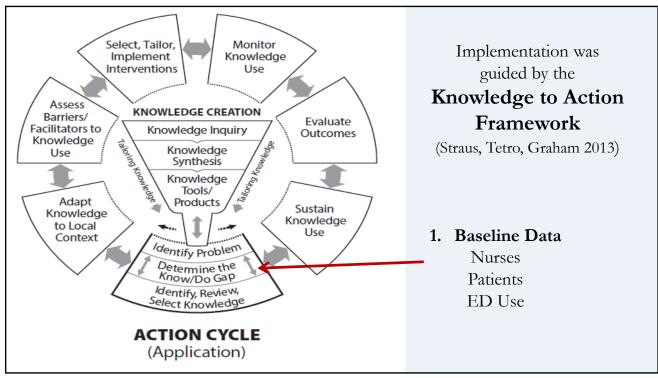
Purpose

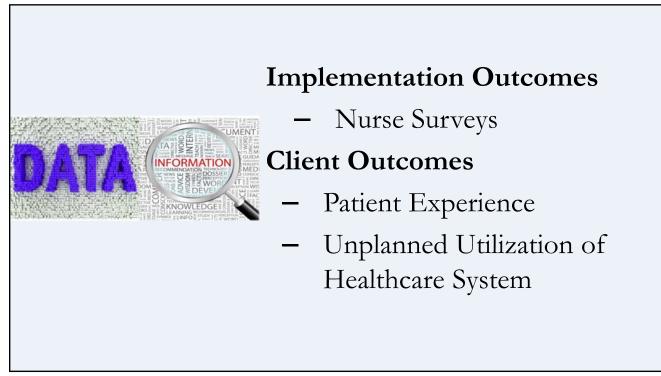


To evaluate integration of evidence-based symptom guides to provide nurse-led telephone-based symptom support during chemotherapy.

Specific objectives for this project

- 1. Describe emergency department utilization of cancer patients currently receiving chemotherapy at PH clinics.
- 2. Examine the feasibility of incorporating COSTaRS into the outpatient cancer clinic nurse workflow.
- 3. Describe the patient experience with nurse-led telephone support during chemotherapy treatment.





July 2016-Jun3 2017					
Gender	Frequenc	Frequency			
Female	188		57		
Male	141		43		
Age	Average 62.7	Max 94	Min 22		
Time of ED Visit					
During office hours	131		39.8%		
After Hrs/Weekend	ls 198		60%		

REASON FOR UNPLANNED ED VISITS				
Reason for Presentation	Frequency (N)			
1. Pain	76			
2. Dehydration	30			
3. Nausea and/or vomiting	28			
4. Fever	22			
5. Diarrhea	14			
6. Shortness of breath	13			
7. Fatigue/Tried	7			
8. Other	169			

Da	ALL ED VIS ys Since Last Infus		29)
Days	Frequency (N)	/	
<1 day	47	36	59% in 1 st
≥1, <3 days	51	16	
≥3 <i>,</i> <5 days	60	11	Week
≥5 <i>,</i> <7 days	37	33	41% remaining
≥7 days	134	63	days
Total	329	322	

ALL ED ENCOUNTERS Disposition 134 Admitted 40.7%

- 16 Observation 4.8%
 - 6 Transferred to other facilities 1.8%

163 DISCHARGED HOME/SELF CARE 49.5%

Discharged Home/Self-Care (n=163)				
Reason for Presentation	Frequency (N)			
1. Pain	83			
2. Dehydration	10			
3. Nausea and/or vomiting	22			
4. Fever	7			
5. Diarrhea	2			
6. Shortness of breath	23			
7. Fatigue/Tried	4			
8. Other	12			

