



Using **COSTaRS** practice guides for cancer symptom support:

A Tutorial for Nurses

January 2025

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Pan-Canadian Oncology Symptom Triage and Remote Support (COSTaRS)

<https://decisionaid.ohri.ca/COSTaRS/>



The 2025 COSTaRS workshop has 2024 practice guide changes.

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Overall Aim

The purpose of this tutorial is to prepare nurses for using the COSTaRS practice guides to enhance their knowledge and skills in providing quality and consistent cancer symptom support

COSTaRS: pan-Canadian Oncology Symptom Triage and Remote Support



Learning Objectives

1. Describe elements of evidence-informed symptom support
2. Explain how to assess and triage clients' cancer symptoms
3. Discuss a client-centred approach to self-care symptom support
4. Use evidence and theory-based practice guides with clients experiencing cancer symptoms and with their family
5. Document symptom assessment, triage, and self-care support

Note: At the end, we ask for your feedback on the tutorial

Feedback is not mandatory; but if provided, it will be used to make improvements



Outline

1. **Background**
2. COSTaRS practice guides
3. Tips for using them in practice
4. Case exemplar
5. Try it and reflect on your experience



Background

- Adults with cancer:
 - Often experience symptoms at home
 - Can be supported to manage these symptoms
 - Have symptoms that can progress to being unsafe when receiving treatment
- Nurses support clients to manage cancer symptoms and many also provide telephone support
- Cancer symptom-focused clinical practice guidelines are available but not integrated in clinical practice

(Macartney et al., 2012; Stacey et al., 2007; Stacey et al. 2013; Stacey et al. 2020)



What common symptoms do you manage...

- In person?
(Specify)

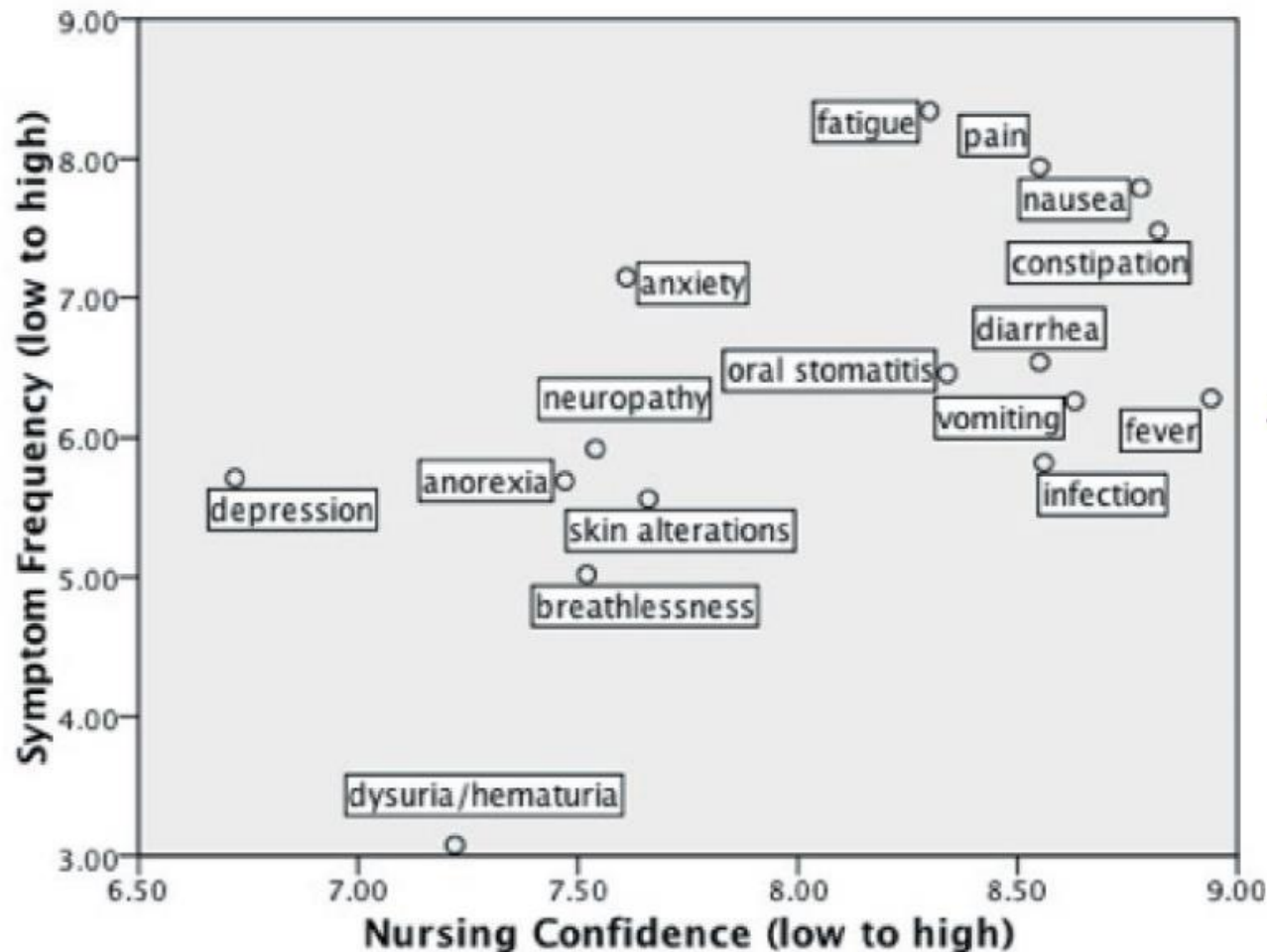
- On the telephone?
(Specify)

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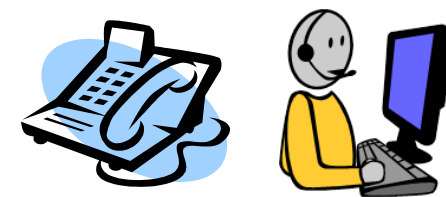
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Symptoms adults on cancer treatment report to nurses



*Survey of 368
Canadian
oncology
nurses*



Of 100 clients with cancer symptoms who go to the emergency department, about how many could have been managed at home?

- A. None (0)
- B. One-quarter (~25)
- C. A half (~50)
- D. About 75 (~75)
- E. All (100)



Emergency department visits for symptoms experienced by oncology patients: a systematic review

Amanda Digel Vandyk • Margaret B. Harrison •
Gail Macartney • Amanda Ross-White • Dawn Stacey

A systematic review identified 12 studies that showed:

- About half of emergency department visits could have been managed at home

Supporting clients with managing symptoms at home should lead to more appropriate emergency department visits.



Nurses manage cancer symptoms and treatment side effects by...

- integrating and applying knowledge
(pathophysiology, disease progression, treatment modalities, treatment side effects, complication, and symptom problems)
- assessing, planning, implementing and evaluating the outcomes of best practice/evidence-based care (Standard 3)
- engaging in critical thinking, integrating best practice/evidence-based knowledge, exercising ethical judgment (Standard 7)

(Canadian Association of Nurses in Oncology Practice Standards & Competencies)



For nurses that provide tele-practice/telephone services:

- Nurses practice in province/territory where they are located and registered despite where the client is located
- Duty to provide care is established as soon as the nurse interacts with the client
- To reduce risk of liability in tele-practice:
 - Nurses use clinical guidelines, standardized protocols, agency policies/ procedures
 - Nurses document all interactions (paper/electronic)
 - Nurses participate in orientation and continuing education
 - Research is conducted to inform and evaluate these services

(Canadian Nurses Association, 2007)

Provincial Colleges:

Manitoba; Ontario; Nova Scotia; Newfoundland and Labrador; British Columbia



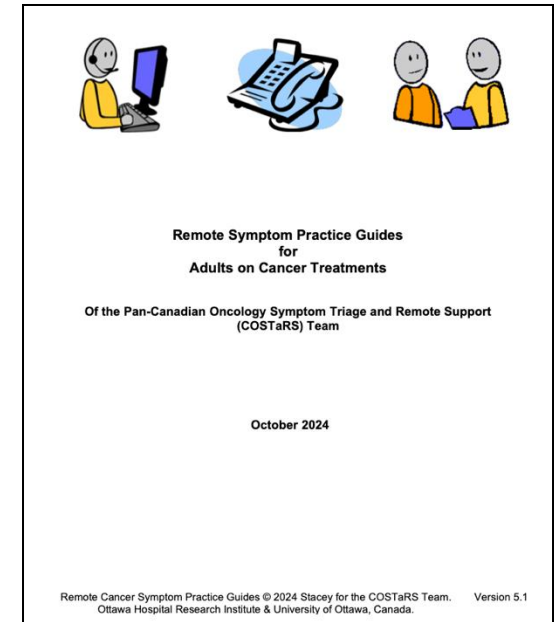
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COSTaRS Practice Guides

- Goal: to enhance the quality and consistency of cancer symptom management by nurses
- Clinical practice guides:
 - support client-centred care by nurses
 - narrow the know-do gap by:
 - ✓ presenting best available evidence
 - ✓ using a format sensitive to how nurses think and what nurses do
 - ✓ complements nurses' critical thinking BUT does not replace it





COSTaRS: 18 Symptoms

| | |
|------------------------|----------------------------|
| Anxiety | Mouth dryness/xerostomia |
| Appetite Loss | Mouth sores/ stomatitis |
| Bleeding | Nausea/vomiting |
| Breathlessness/dyspnea | Pain |
| Constipation | Peripheral neuropathy |
| Depression | Skin rash |
| Diarrhea | Skin reaction to radiation |
| Fatigue/tiredness | Sleep changes |
| Fever with neutropenia | Swallowing difficulty |

Developed by: researchers, advanced practice nurses, nurse leaders, graduate students, library scientist, and an information systems researcher from 8 Canadian provinces.

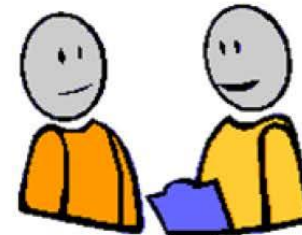


COSTaRS Practice Guides have 5 sections

1. Assess symptom severity
2. Triage client for symptom management based on highest severity
3. Review medications being used for the symptom
4. Discuss self-care strategies
5. Document the plan agreed upon with the client

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Remote Symptom Practice Guides for Adults on Cancer Treatments

Of the Pan-Canadian Oncology Symptom Triage and Remote Support
(COSTaRS) Team

A PRACTICE GUIDE IN DETAIL...

Nausea & Vomiting Practice Guide

Nausea: A subjective perception that vomiting may occur. Feeling of queasiness.¹⁻³ Vomiting: A forceful expulsion of stomach contents through the mouth and may include retching/dry heaves (gastric and esophageal movement without vomiting).¹⁻³


1. Assess severity of nausea/vomiting¹⁻¹⁷

| | | | | | | |
|--|------------------|--------------------------|-------------------|--------------------------|-------------------|--------------------------|
| What number from 0 to 10 best describes how you are feeling 0= "No nausea" and 10= "Worst possible nausea" ^{1,4,18} | 1-3 | <input type="checkbox"/> | 4-6 | <input type="checkbox"/> | 7-10 | <input type="checkbox"/> |
| Are you worried about your nausea/vomiting? ²⁻⁸ | No/Some | <input type="checkbox"/> | Yes, very | <input type="checkbox"/> | | |
| If vomiting: How many times per day? ^{1,3-6,19} | ≤1 ^{G1} | <input type="checkbox"/> | 2-5 ^{G2} | <input type="checkbox"/> | ≥6 ^{G≥3} | <input type="checkbox"/> |
| What is the amount of vomit? ^{1,4,5} | Small | <input type="checkbox"/> | Medium | <input type="checkbox"/> | Large | <input type="checkbox"/> |
| Is there any blood or look like coffee grounds? ^{1,4,5} | No | <input type="checkbox"/> | | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| Have you been able to eat within last 24 hours? ^{1,2,4,5} | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | | |
| Have you lost weight in the last 1-2 weeks without trying? ^{1,4} | 0-2.9% | <input type="checkbox"/> | 3-9.9% | <input type="checkbox"/> | ≥10% | <input type="checkbox"/> |
| How much fluid are you drinking per day? ^{1,2,4,5,9} | 6-8 glasses | <input type="checkbox"/> | 1 to 5 glasses | <input type="checkbox"/> | Sips | <input type="checkbox"/> |
| Are you feeling dehydrated, which can include feeling dizzy, a dry mouth, increased thirst, feeling faint, rapid heart rate, decreased amount of urine? ^{1,2,4,5,9} | No | <input type="checkbox"/> | Yes, some | <input type="checkbox"/> | Yes, a lot | <input type="checkbox"/> |
| Do you have any abdominal pain? ^{1,3-5} | No/Mild 0-3 | <input type="checkbox"/> | Moderate 4-6 | <input type="checkbox"/> | Severe 7-10 | <input type="checkbox"/> |
| Does your nausea/vomiting affect your daily activities? ^{1,4} | No | <input type="checkbox"/> | Yes, some | <input type="checkbox"/> | Yes, a lot | <input type="checkbox"/> |
| Are you taking medicines that can cause nausea/ vomiting? ^{1-6,9} (e.g., opioids, antidepressants, antibiotics, warfarin) | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> | | |
| Do you have any other symptoms? ^{1-6,8,9} <input type="checkbox"/> Pain <input type="checkbox"/> Fever <input type="checkbox"/> Constipation <input type="checkbox"/> Diarrhea <input type="checkbox"/> Anxiety <input type="checkbox"/> Headache | No | <input type="checkbox"/> | Yes, some | <input type="checkbox"/> | Yes, many | <input type="checkbox"/> |
| → Do you have (signs of endocrine toxicity): ¹⁰⁻¹⁷ <input type="checkbox"/> fatigue/ weakness, <input type="checkbox"/> abdominal pain, <input type="checkbox"/> headache, <input type="checkbox"/> appetite loss, <input type="checkbox"/> vision changes, <input type="checkbox"/> weight gain or loss, <input type="checkbox"/> constipation, <input type="checkbox"/> dizziness, <input type="checkbox"/> mood or behaviour changes, <input type="checkbox"/> decreased libido, <input type="checkbox"/> confusion, <input type="checkbox"/> dry skin, <input type="checkbox"/> hair loss, <input type="checkbox"/> feeling cold, <input type="checkbox"/> puffy face | No | <input type="checkbox"/> | | | Yes | <input type="checkbox"/> |
| → Do you have (signs of autonomic neuropathy): ¹⁰ <input type="checkbox"/> constipation, <input type="checkbox"/> urinary problems, <input type="checkbox"/> sweating changes | No | <input type="checkbox"/> | | | Yes | <input type="checkbox"/> |
| → Do you have (signs of aseptic meningitis): ¹⁰⁻¹⁷ <input type="checkbox"/> headache, <input type="checkbox"/> eyes sensitive to light, <input type="checkbox"/> neck stiffness, <input type="checkbox"/> low-grade fever | No | <input type="checkbox"/> | | | Yes | <input type="checkbox"/> |
| → Do you have (signs of hepatic toxicity): ^{10-12,14-17} <input type="checkbox"/> yellow skin/eyes, <input type="checkbox"/> dark urine, <input type="checkbox"/> fever, <input type="checkbox"/> appetite loss, <input type="checkbox"/> right side abdominal pain, <input type="checkbox"/> fatigue, <input type="checkbox"/> increase in bleeding/bruising | No | <input type="checkbox"/> | | | Yes | <input type="checkbox"/> |
| → Do you have (signs of GI toxicity): ^{10,11,13-16} <input type="checkbox"/> abdominal pain, <input type="checkbox"/> diarrhea, <input type="checkbox"/> blood or mucus in stool, <input type="checkbox"/> fever, <input type="checkbox"/> weight loss | No | <input type="checkbox"/> | | | Yes | <input type="checkbox"/> |
| → Do you have (signs of hemolytic uremic syndrome): ¹⁰ <input type="checkbox"/> blood in urine/stool or nose/mouth, <input type="checkbox"/> less urine, <input type="checkbox"/> new/unexplained bruises, <input type="checkbox"/> abdominal pain, <input type="checkbox"/> pale skin, <input type="checkbox"/> fatigue, <input type="checkbox"/> confusion/seizures, <input type="checkbox"/> swelling | No | <input type="checkbox"/> | | | Yes | <input type="checkbox"/> |

Ask client/ family about their symptom to assess severity

Edmonton Symptom Assessment Scale:
Ask client/family to rate severity on scale of 0 (none) to 10 (worst possible).

NCI-CTCAE grading is linked to applicable assessment questions

Key assessment items for patients receiving immunotherapy are denoted with a symbol  and shaded in grey

| | 1 Mild (Green) | 2 Moderate (Yellow) | 3 Severe (Red) |
|--|---|---|---|
| 2. Triage patient for symptom management based on highest severity ^{1,2,4,5} | <input type="checkbox"/> Review self-care. <input type="checkbox"/> Verify medications | <input type="checkbox"/> Review self-care <input type="checkbox"/> Verify medications <input type="checkbox"/> Advise to notify if symptom worsens, new symptoms occur, or no improvement in 12-24 hours. | <input type="checkbox"/> Refer for medical attention immediately and alert if on immunotherapy. |

Legend: → Immune Checkpoint Inhibitor therapy; NCI-CTCAE G1=Grade 1, G2=Grade 2, ≥G3=Grade 3 or higher

If patient has other symptoms, did you refer to the relevant practice guide(s)? Please specify:

Additional comments:

Rate severity and triage to highest level
(use nursing judgment)

Space to make notes

Ask client/family what medications they have/use for the symptom. Encourage use as prescribed and based on patients' goals

Learn about the effectiveness of medications based on the current evidence

Engage client/family by asking what they would agree to try

Guide client/family in choosing self-care strategies

3. Review medications patient is using for nausea/vomiting, including prescribed, over the counter, traditional medicines, and/or herbal supplements^{1-9,20-23}

| Current use | Examples of medications for nausea/vomiting* | Notes (e.g., dose, suggest to use as prescribed) | Evidence |
|--------------------------|---|--|------------------|
| <input type="checkbox"/> | 5-HT ₃ : ondansetron (Zofran®), granisetron (Kytril®), dolasetron (Anszemet®) ^{1-9,20-22} | | Effective |
| <input type="checkbox"/> | Olanzapine (Zyprexa®) ^{1-4,6-9,20-23} | | Effective |
| <input type="checkbox"/> | Fosaprepitant (Emend® IV), aprepitant (Emend®) ^{1-3,5-9,20-22} | | Effective |
| <input type="checkbox"/> | Triple drug: ^{2,3,5-9,20-22} dexamethasone, 5 HT ₃ (palonosetron), neurokinin 1 receptor antagonist (netupitant) for high emetic risk | | Effective |
| <input type="checkbox"/> | Cannabis/Cannabinoids ^{1-4,7-9,22} | | Effective |
| <input type="checkbox"/> | Netupitant/palonosetron (NEPA) (Akynzeo®) ^{1-3,6-9,20,22} | | Effective |
| <input type="checkbox"/> | Dexamethasone (Decadron®) alone or in combination ^{1-9,20-22} | | Likely effective |
| <input type="checkbox"/> | Gabapentin (Neurontin®) ⁷ | | Likely effective |
| <input type="checkbox"/> | Progestins ⁷ | | Likely effective |
| <input type="checkbox"/> | Anticipatory: Lorazepam (Ativan®), haloperidol (Haldol®) ^{1-9,20,22} | | Expert opinion |
| <input type="checkbox"/> | Metoclopramide (Maxeran®), prochlorperazine (Stemetil®) ^{1-6,9,20,22} | | Expert opinion |
| <input type="checkbox"/> | Other: Cyclizine, ^{5,6} dimenhydrinate, ^{1,3,4,8} methotrimprazine ¹ | | Expert opinion |

*Patients are at increased risk of opioid overdose and serious side effects when taking gabapentin with an opioid.²⁴ Rectal administration should be avoided if neutropenic.

4. Discuss self-care strategies^{1-9,20,22,25}

- **What helps** when you have nausea/vomiting?^{1,4} Reinforce as appropriate. Specify:
- What is your **goal**?^{7,9}
- Have you seen or spoken to a **dietitian**?^{1,4,9}
- Would **more information** about your symptoms help you to manage them better?^{1,4} If yes, provide appropriate information or suggest resources.

| Patient already uses | Strategy advised/ education provided | Patient agreed to try | Here are some things that may be helpful... |
|-----------------------------|--------------------------------------|--------------------------|---|
| 1. <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Drink 6-8 glasses of clear fluids per day. ^{1,4,9} |
| 2. <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Use relaxation techniques (e.g., guided imagery, progressive muscle relaxation, hypnosis, music therapy). ^{1,4,6-9,22} |
| 3. <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Take fast-acting anti-emetics (e.g., ondansetron (Zofran®), granisetron (Kytril®), dolasetron (Anszemet®) 30-60 minutes before meals so they are effective during/after meals. ^{1,4} |
| 4. <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | If vomiting, limit food and drink until vomiting stops . After 30-60 min without vomiting, sip clear fluids. When clear fluids stay down, add dry starchy foods (crackers, dry toast, dry cereal, pretzels). If starchy foods stay down, add protein rich foods (e.g., eggs, chicken). ^{1,4} |
| 5. <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | If nausea, eat small, frequent meals and snacks . ^{1,4,9} Eat foods that reduce your nausea and are your "comfort foods" cold or room temperature. ^{1,4,9} Avoid greasy/fried, highly salty, spicy, and foods with strong odors. ^{1,4,9} Avoid tobacco and alcohol. ^{1,6,9} |
| 6. <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Sit upright or recline with your head raised for 30-60 minutes after meals. ^{1,4} |
| 7. <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | If vomiting, use a bland rinse 4 times/day . ⁴ For 1 cup warm water, add table salt (2.5 ml (1/2 tsp.)), baking soda (1/2 tsp.) or both (1/4 tsp. each). Swish in your mouth for at least 30 seconds and spit out. Prepare daily. |
| 8. <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Try acupressure (e.g., acupressure bracelet) or acupuncture . ^{1,4,9,22,25} |

Document agreed upon plan
to empower client/family

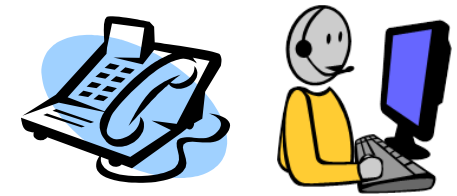
5. Document plan agreed upon with patient (check all that apply)

| | | |
|--------------------------|--|-------------|
| <input type="checkbox"/> | No change, continue with self-care strategies and if appropriate, medication use | |
| <input type="checkbox"/> | Patient agrees to try self-care items #: How confident are you that you can try what you agreed to do (0=not confident, 10=very confident)? | |
| <input type="checkbox"/> | Patient agrees to use medication to be consistent with prescribed regimen. Specify: | |
| <input type="checkbox"/> | Referral (service & date): | |
| <input type="checkbox"/> | Patient agrees to seek medical attention; specify time frame: | |
| <input type="checkbox"/> | Advise to call back in 12-24 hours if no improvement, symptom worsens, or new symptoms occur | |
| Name | Signature | Date |

References: 1) BCCA 2018; 2) NCI 2023; 3) INESSS 2020; 4) CCO 2019... (pages 42-55 for all references).

For more information,
see guidelines

If not confident,
explore ways to
support client/family



When should COSTaRS be used?

1. When a client/family expresses concern about a symptom (in person or by telephone)*

and/or

2. When face to face assessment indicates a symptom* score of $\geq 4/10$

*If multiple symptoms, start with most burdensome or high risk (life-threatening) symptom based on the nurses' assessment and judgment



How could you document COSTaRS use?

(choose all that apply to your organization)

- A. Use COSTaRS practice guides as paper-based documentation tools filed on the health record
- B. Use COSTaRS practice guides embedded into the electronic health record
- C. Use a dry-erase marker to document on plasticized practice guides and transfer results when documenting on usual forms and indicate COSTaRS used
- D. Document what COSTaRS practice guide was used and summary of findings on usual forms standard forms



Documenting

At a minimum, documentation of symptom management includes:

1. Symptom severity (mild, moderate, severe) with findings from assessment to support the severity rating
2. Medications reviewed considering patients' goals for symptom relief
3. Self-care strategies client agrees to try



Background on COSTaRS practice guides...

- Informed by quality rated clinical practice guidelines
 - If something is missing, it is likely because there is no supporting evidence from guidelines
- Meets AGREE II rigour criteria for guidelines by:
 - Making explicit the recommendations (Steps 1 to 5)
 - Linking to evidence (references provided)
 - Using findings from guidelines identified via systematic reviews
 - Were reviewed by experts from 8 provinces across Canada
- Are usable in practice beyond a resource on the shelf
- Use plain language – Flesch-Kincaid Grade 6.3
- Steps 4 & 5 based on brief motivational interviewing



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Tips for using COSTaRS practice guides

- After providing your name and designation, start by listening to the client/family

The first 10-20 seconds significantly impacts client's/family's perceptions of nurse's desire to meet their needs

- Ask the client if you can ask them a few specific questions
- Be familiar with practice guides to go with the flow in conversation rather than ask questions word by word
- Start with the practice guide for the most problematic symptom
- Engage the client/family by listening to their symptom description and guiding them in enhancing their self-care strategies
- Integrate motivational interviewing techniques



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Triaging symptom calls with and without practice guides: A case exemplar



- Tracey, 49 years old, with colon cancer metastases to liver
- Treatment: surgery with 6 months of chemotherapy
- At 6 months, liver disease stable and chemotherapy discontinued
- 3 months later restarted chemo for retroperitoneal progression
- Oxaliplatin IV day 1 and oral Xeloda 2 pills per day for 2 weeks
- Between day 3 and day 7, Tracey called the cancer centre 3 times regarding nausea & vomiting (N&V)



- **Call #1 – Oral chemo Day 3:**
Tracy called her Primary Nurse



- Clerk message: *“Has not taken her chemo pill today. Medication tastes bad and stomach feels awful”*. Clerk attached N&V COSTaRS guide to the written message
- Primary nurse returned call in 2.5 hours and documented: *“Patient advised to take Xeloda if she can. Advised to try Stemetil first.”*
- No documentation reflected use of the COSTaRS practice guide



- **Call #2 – Oral chemo Day 5:**
Tracy called again



- Clerk message: *“Vomited last night. Not sure if she should take chemo pill”*. Clerk attached the N&V COSTaRS guide.
- Replacement nurse returned call within 2 hours and documented: *“Took Stemetil once with effect. Not nauseated now. Drinking OK. Advised to proceed.”*
- No documentation reflected used of the COSTaRS practice guide



- **Call #3 – Oral chemo Day 6:**
Tracy called again



- Clerk message: *“Patient requesting primary nurse call her ASAP. Feels terrible. Nauseated and medication is not helping. Has not taken chemotherapy.”* Clerk attached N&V COSTaRS practice guide to the written message
- 2nd replacement nurse (3rd nurse in 4 days) documented her assessment, triage and interventions on the COSTaRS practice guide...

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Nurse documentation revealed:

- Constipation was also contributing to nausea
- The nurse assessed, triaged and managed both symptoms using COSTaRS guides
- Medication review revealed:
 - She was not using stemetil as prescribed and not aware metoclopramide was also for nausea and/or vomiting
 - Granisetron with her IV chemo frequently causes constipation and she had Colace and Senokot for constipation but not using them
- Self-management strategies were reviewed and next steps agreed upon were clearly documented.



In summary, using COSTaRS practice guides led to improved symptom management and may have reduced the number of calls and improved communication



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Try it out with someone else!

- Get into groups of 2 to 3
 - 1 person is in the role of the client
 - 1 person is in the role of the nurse
 - 1 person is in the role of the observer/family
- Take 5 minutes to role play with a 'client' reporting a specific symptom (simulated client or real client)
- Discuss your experience in the role (see next slide)

Hints

- a) Introduction
- b) Listen
- c) Assess symptoms
- d) Discuss tips for managing
- e) Document



Reflecting on your experience(s)

- What went well using the practice guide(s)?
...
- What would you do differently next time?
...
- What questions do you have after using the practice guide(s)?
...

Note: Nurses gradually feel more comfortable with using COSTaRS after repeated use



What did other nurses say?

- Overall feedback on COSTaRS practice guides:
 - clear, user-friendly, comprehensive assessment
 - very thorough; yet concise
 - offers direction without needing to seek more info
 - excellent self-care strategies
- Process of using COSTaRS practice guides:
 - tick boxes save excessive documentation
 - easy to fill out when talking
 - clear differences between mild/mod/severe symptoms
- Links evidence to practice
- Applicable to nearly every cancer



Key Messages

For good symptom management:

- Stay patient-centered:
 - Listen to the client
 - Provide guidance that is based on ***their priorities*** unless there is a clinical concern you have identified, requiring intervention
- Assess the symptom in a thorough, stepwise fashion
- Discuss evidence informed tips for managing symptoms
- Document the symptom support provided

***To make it a habit,
use practice guides daily***