Supplemental Digital Content 1: Screenshots showing Decision Support-Symptom Management System

Patient Alerts

Patient (# of Alerts)	Alerting Symptom	Severity	Distress	Date Alerted	Alert Status
Gordon, Evan (1)	general			11/14/2016	New
Jackson, Ian (5)	general			11/14/2016	New
	diarrhea	6	8	11/14/2016	New
	sore mouth	8	7	11/14/2016	New
	diarrhea	6	8	11/14/2016	New
	sore mouth	8	7	11/14/2016	New
Jones, Susan (1)	nausea/vomiting	9	9	10/13/2016	New
Hills, Frank (1)	numbness/tingling	8	8	11/14/2016	New
Carter, Bob (1)	pain	7	7	11/16/2016	Follow Up

SCREENSHOT A: Default screen that opens when the NP logs into the SymptomCare@Home DS-SMS. It lists patient alert status for the day or requirement for follow up from a previous day. If the NP goes into the Patient Activity Screen on the upper middle gold bar area, she/he can view who is still in the queue to call in for the day.

Bobbi Tester-Experimental   MRN: 1
Patient Alerts
All Patients
DOB: 2/15/1963   Phone: 8015875830   Physician: John Ward
Pharmacy: Walgreen's   Pharmacy Phone:
Antiemesis
Show Guideline
Log Off

Alerts	Symptom Graphs	Assessment	Intervention	Reports

nausea/vomiting sore mouth diarrhea fever fatigue trouble thinking down or blue nervous/anxious appearance pain numbness/tingling trouble sleeping **Review EMR**

How Caller Feels: **Patient has experienced symptoms.**   TLC Data Date: 10/24/2012 View

Overall Functioning {SHDQ}

Nausea/Vomiting		Severity Score: 5	Distress Score: 4
# times vomited in last 24 hours	2		
# cups of fluid consumed	6		
Felt dizzy or lightheaded	no		
Nausea occurred	comes and goes		
Taken prescription medication			

Sore Mouth	Severity Score: 0	Distress Score: 0
Diarrhea	Severity Score: 0	Distress Score: 0
Fever and Chills	Temperature: 0	Distress Score: 0
Fatigue	Severity Score: 0	Distress Score: 0
Trouble Thinking/Concentrating	Severity Score: 0	Distress Score: 0
Feeling Down and Blue	Severity Score: 0	Distress Score: 0
Feeling Nervous and Anxious	Severity Score: 0	Distress Score: 0
Changes in Appearance	Severity Score: 0	Distress Score: 0
Pain	Severity Score: 0	Distress Score: 0
Numbness and Tingling	Severity Score: 0	Distress Score: 0
Trouble Sleeping	Severity Score: 0	Distress Score: 0

Review Medical Record

☐ **Documents/Clinical Forms**

- History of other illnesses/comorbidities (cardiac, pulmonary, renal, hepatic, neurologic and endocrine dysfunction; restless leg syndrome, narcolepsy, obstructive sleep apnea
- Disease status and treatment
- Venus access device
- Type of chemotherapy
- Diet including enteral and parenteral nutrition
- Other medical conditions include irritable bowel syndrome, infection (viral, bacterial, protozoan, parasitic, fungal), surgery, fecal impaction
- Use of alternative therapies (e.g., dietary supplements, herbal remedies, coffee enemas)
- Social/Behavioral, Counseling

☐ **Patient Information**

- Drug Allergies
- Food Allergies (including lactose intolerance, and others)
- Other Allergies (including latex, environmental, etc.)

☐ **Labs**

- Anemia
- Neutropenia
- Fluid and electrolyte imbalances (sodium, potassium, calcium, magnesium)

☐ **Medications**

- Current medications/medication changes
- Corticosteroids
- Antibiotics, laxatives, antacids, NSAIDS

Save Data

SCREENSHOT B: This screen provides details of the symptoms reported by the patient in the IVR. Nausea/vomiting has been selected as the symptom generating an alert, keeping in mind there are often multiple symptom alerts for one patient. The screen summarizes additional information that the patient reported, such as number of times vomited in the last 24 hours. The boxes at the bottom left of the screen are checked after the NP reviews pertinent information from the patient's EHR.

Bobbi Tester-Experimental   MRN: 1

Patient Alerts
All Patients

DOB: 2/15/1963   Phone: 8015875830   Physician: John Ward
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Antiemesis   Log Off
Show Guideline

Alerts	Symptom Graphs	Assessment	Intervention	Reports

nausea/vomiting | sore mouth | diarrhea | fever | fatigue | trouble thinking | down or blue | nervous/anxious | appearance | pain | numbness/tingling | trouble sleeping | Open Alerts

How Caller Feels: **Patient has experienced symptoms.**   Last Completed Date: **10/24/2012**

---Notes Prior To Contacting Patient---

49yo female with breast ca. Rec'd cycle 3 DD AC on 10/22/12. Alerts today for nausea and some emesis. Pt has compazine, zofran, and lorazepam written for antiemetics per EMR.

[Set Start Phone Call Time Stamp] 10/24/2012 5:11:36 PM

Nausea/Vomiting

Experienced Symptom: Yes   Severity Score: 5   Distress Score: 4

CALL THE PATIENT AND INQUIRE ABOUT:

☑ Confirm date of last chemo and what given

☑ Assess nausea: onset, frequency, intensity, alleviating/aggravating factors
- If chemotherapy-related, then non-urgent
- If acute, delayed or anticipatory, then non-urgent

☑ Assess vomiting: character, color, force, quantity, frequency

☑ Headache

☑ Food/fluid intake over the last 24 hours?
- If unable to eat or drink for 24 hours, then urgent

☑ Signs of dehydration: decreased urine output, fever, thirst, dry mucus membranes, weakness, dizziness, confusion

☑ Any abdominal distention

☐ Presence of flatus, time of last BM

☑ Use of OTC, supplements and other, including complimentary treatments and non-pharmacologic interventions

☑ Have they listened to hints in TLC script? Did they use any of these? Did any of these help

PHARMACOLOGIC INTERVENTION NOTES

☐ BREAKTHROUGH OR REFRACTORY Nausea/Vomiting

☐ DELAYED Nausea/Vomiting

☐ Nausea/Vomiting not related to chemo

Action	What to do detail

NONPHARMACOLOGIC

☑ Water

☑ Food

☑ Signs of dehydration

☑ Contacting Doctor

☑ Distraction strategies
- music, moderate exercise, relaxation, breathing exercises, t.v, crafts

☑ Psychoeducational support and information
- loose clothing/ventilation
- peaceful environment

REFERRAL

☐ Emergency Room

☐ Doctor appointment in next 24 hours

☐ Doctor appointment after 24 hours

☐ Acupuncture

☐ Guided imagery

☐ Music therapy

☐ Progressive muscle relaxation

MEDICATIONS [Drug/Dose/Route/Schedule]

Phenothiazines
☐ Prochlorperazine (Compazine)/25mg/PR/Q 12 hrs ATC or prn
☑ Prochlorperazine/(Compazine)/10 mg/PO/Q 4-6 hrs
☐ Promethazine/12.5-25 mg/PO/Q 4 hrs prn

5-HT3 receptor agonists (May cause headache, especially if a history of migraines)
☑ Odansetron/16mg/PO/QD

Benzodiazapenes
☑ Lorazepam (Ativan)/0.5 to 2 mg/PO/Q 4-6 hrs

Substituted benzamide

Corticosteroids

NK1 receptor agonist

☐ Changed Drug Class

☐ Changed to ATC dosing

☐ Advised to take as directed

☐ Changed to rectal route

☐ Reported breakthrough or delayed nausea/vomiting to team

Notes

Screenshot C. This screen is used to guide and document actions during the NP call to the patient. The NP adds pertinent information gathered before the call to the free text field. The screen guides additional symptom-specific assessment and evidence-based interventions. This page is user friendly because the NP can point and click while on the phone with the patient. Clicking any underlined item provides greater detail. A link on the top right allows viewing the latest clinical practice guideline.