alerts:

# Immediate red‑flag overrides

- id: ALERT\_TROUBLE\_BREATHING

symptom: trouble\_breathing

when: trouble\_breathing == true

override\_to\_grade: 4

long\_q\_ids: []

reason: "OncoLifeAlerts.docx: Trouble Breathing is an immediate alert"

- id: ALERT\_CHEST\_PAIN

symptom: chest\_pain

when: chest\_pain == true

override\_to\_grade: 4

long\_q\_ids: []

reason: "OncoLifeAlerts.docx: Chest Pain is an immediate alert"

- id: ALERT\_SIGNIFICANT\_BLEEDING

symptom: significant\_bleeding

when: bleeding\_significant == true

override\_to\_grade: 4

long\_q\_ids: []

reason: "OncoLifeAlerts.docx: Significant bleeding that won’t stop with pressure"

# Dehydration alert

- id: ALERT\_DEHYDRATION

symptom: dehydration

when: heart\_rate > 100 or sbp < 100

override\_to\_grade: 3

long\_q\_ids:

- "What color is your urine?"

- "Is the amount of urine a lot less over the last 12 hours?"

- "Are you very thirsty or lightheaded?"

- "Do you know what your heart rate and blood pressure is? If so, please state."

reason: "OncoLifeAlerts.docx: Dehydration if HR >100 or systolic BP <100"

# Fever

- id: ALERT\_FEVER

symptom: fever

when: temp\_f >= 100.4

override\_to\_grade: 3

long\_q\_ids:

- "Are you having any trouble breathing?"

- "Rapid heartbeat: is your heart rate above 100? Select all that apply: nausea, vomiting, abdominal pain, diarrhea, redness around the port, cough."

- "Do you feel dizzy, confused, or experience burning on urination? Select all that apply."

- "How much have you been able to eat or drink in the last 24 hours? Select the closest that applies: About the same as usual, less than half, almost nothing, I haven't eaten or had anything to drink."

- "Are you able to perform daily self care like bathing and dressing yourself?"

reason: "OncoLifeAlerts.docx: Fever >100.4°F once or sustained >100.4°F for >1 h"

# Nausea

- id: ALERT\_NAUSEA\_INTAKE

symptom: nausea

when: oral\_intake\_pct <= 10

override\_to\_grade: 3

long\_q\_ids:

- "Have you vomited in the last 24 hours? If so, how many times?"

- "Are you experiencing abdominal pain or cramping?"

- "Any weight loss?"

- "Any fever > 100.4°F?"

- "What color is your urine?"

- "Is the amount of urine in the last 12 hours a lot less than your usual amount?"

- "Are you very thirsty?"

- "Are you lightheaded?"

- "Are you able to perform self care activities?"

reason: "OncoLifeAlerts.docx: 24 h intake rated 'Almost nothing' or 'nothing'"

- id: ALERT\_NAUSEA\_SEVERE

symptom: nausea

when: nausea\_rating == "severe"

override\_to\_grade: 3

long\_q\_ids: # same as above

- "Have you vomited in the last 24 hours? If so, how many times?"

- "Are you experiencing abdominal pain or cramping?"

- "Any weight loss?"

- "Any fever > 100.4°F?"

- "What color is your urine?"

- "Is the amount of urine in the last 12 hours a lot less than your usual amount?"

- "Are you very thirsty?"

- "Are you lightheaded?"

- "Are you able to perform self care activities?"

reason: "OncoLifeAlerts.docx: Nausea rated as severe despite medications"

# Vomiting

- id: ALERT\_VOMITING\_EPISODES

symptom: vomiting

when: episodes\_per\_24h >= 6

override\_to\_grade: 3

long\_q\_ids:

- "Do you have abdominal pain or cramping?"

- "Are you constipated?"

- "How many bowel movements do you have a day?"

- "Do you have diarrhea?"

- "Has your vomiting affected your ability to do daily household work?"

- "Are you able to perform daily self care like bathing and dressing yourself?"

reason: "OncoLifeAlerts.docx: More than 6 episodes in 24 h"

- id: ALERT\_VOMITING\_NO\_INTAKE

symptom: vomiting

when: oral\_intake\_pct == 0

override\_to\_grade: 3

long\_q\_ids: # same as above

- "Do you have abdominal pain or cramping?"

- "Are you constipated?"

- "How many bowel movements do you have a day?"

- "Do you have diarrhea?"

- "Has your vomiting affected your ability to do daily household work?"

- "Are you able to perform daily self care like bathing and dressing yourself?"

reason: "OncoLifeAlerts.docx: No oral intake over the last 12 h"

- id: ALERT\_VOMITING\_SEVERE

symptom: vomiting

when: vomiting\_rating == "severe"

override\_to\_grade: 3

long\_q\_ids: # same as above

- "Do you have abdominal pain or cramping?"

- "Are you constipated?"

- "How many bowel movements do you have a day?"

- "Do you have diarrhea?"

- "Has your vomiting affected your ability to do daily household work?"

- "Are you able to perform daily self care like bathing and dressing yourself?"

reason: "OncoLifeAlerts.docx: Severe vomiting despite medications"

- id: ALERT\_VOMITING\_MOD3

symptom: vomiting

when: vomiting\_rating == "moderate" and days\_in\_a\_row >= 3

override\_to\_grade: 3

long\_q\_ids: # same as above

- "Do you have abdominal pain or cramping?"

- "Are you constipated?"

- "How many bowel movements do you have a day?"

- "Do you have diarrhea?"

- "Has your vomiting affected your ability to do daily household work?"

- "Are you able to perform daily self care like bathing and dressing yourself?"

reason: "OncoLifeAlerts.docx: Moderate vomiting over 3 continuous days"

# Diarrhea

- id: ALERT\_DIARRHEA\_FREQUENCY

symptom: diarrhea

when: loose\_stools\_per\_day > 5

override\_to\_grade: 3

long\_q\_ids:

- "Are you able to perform daily self-care activities?"

- "Has the diarrhea affected your ability to do daily activities such as household work, eating, moving around?"

- "Any fever > 100.4°F?"

- "Any nausea? Any vomiting?"

- "What color is your urine?"

- "Is urine amount a lot less over the last 12 h?"

- "Are you very thirsty or lightheaded?"

reason: "OncoLifeAlerts.docx: >5 loose stools per day"

- id: ALERT\_DIARRHEA\_PAIN

symptom: diarrhea

when: abdominal\_pain\_severity in ["moderate","severe"]

override\_to\_grade: 3

long\_q\_ids: # same as above

- "Are you able to perform daily self-care activities?"

- "Has the diarrhea affected your ability to do daily activities such as household work, eating, moving around?"

- "Any fever > 100.4°F?"

- "Any nausea? Any vomiting?"

- "What color is your urine?"

- "Is urine amount a lot less over the last 12 h?"

- "Are you very thirsty or lightheaded?"

reason: "OncoLifeAlerts.docx: Moderate/severe abdominal pain or cramping"

- id: ALERT\_DIARRHEA\_BLOOD

symptom: diarrhea

when: stool\_contains in ["black","bloody","mucus"] or dehydration == true

override\_to\_grade: 3

long\_q\_ids: # same as above

- "Are you able to perform daily self-care activities?"

- "Has the diarrhea affected your ability to do daily activities such as household work, eating, moving around?"

- "Any fever > 100.4°F?"

- "Any nausea? Any vomiting?"

- "What color is your urine?"

- "Is urine amount a lot less over the last 12 h?"

- "Are you very thirsty or lightheaded?"

reason: "OncoLifeAlerts.docx: Black, bloody, mucus in stool or dehydration"

- id: ALERT\_DIARRHEA\_NO\_INTAKE

symptom: diarrhea

when: oral\_intake\_pct <= 10

override\_to\_grade: 3

long\_q\_ids: # same as above

- "Are you able to perform daily self-care activities?"

- "Has the diarrhea affected your ability to do daily activities such as household work, eating, moving around?"

- "Any fever > 100.4°F?"

- "Any nausea? Any vomiting?"

- "What color is your urine?"

- "Is urine amount a lot less over the last 12 h?"

- "Are you very thirsty or lightheaded?"

reason: "OncoLifeAlerts.docx: Almost nothing or nothing for oral intake"

- id: ALERT\_DIARRHEA\_MOD3

symptom: diarrhea

when: diarrhea\_severity == "moderate" and days\_in\_a\_row >= 3

override\_to\_grade: 3

long\_q\_ids: # same as above

- "Are you able to perform daily self-care activities?"

- "Has the diarrhea affected your ability to do daily activities such as household work, eating, moving around?"

- "Any fever > 100.4°F?"

- "Any nausea? Any vomiting?"

- "What color is your urine?"

- "Is urine amount a lot less over the last 12 h?"

- "Are you very thirsty or lightheaded?"

reason: "OncoLifeAlerts.docx: Moderate diarrhea over 3 continuous days"

# Bleeding/Bruising

- id: ALERT\_BLEEDING\_PRESSURE

symptom: bleeding

when: bleeding\_persists\_after\_pressure == true

override\_to\_grade: 4

long\_q\_ids: []

reason: "OncoLifeAlerts.docx: Bleeding that doesn't stop after applying pressure"

- id: ALERT\_BLOOD\_IN\_STOOL\_OR\_URINE

symptom: bleeding

when: blood\_in\_stool == true or blood\_in\_urine == true

override\_to\_grade: 4

long\_q\_ids: []

reason: "OncoLifeAlerts.docx: Blood in stool or urine"

# Fatigue

- id: ALERT\_FATIGUE\_INTERFERENCE

symptom: fatigue

when: fatigue\_interferes\_with\_adl == true

override\_to\_grade: 3

long\_q\_ids:

- "How many hours are you sleeping/spending in bed each day due to fatigue?"

- "Has the fatigue affected your ability to bathe, dress, or feed yourself without help?"

- "Do you have fever, nausea, vomiting, diarrhea, or lack of appetite?"

reason: "OncoLifeAlerts.docx: Fatigue significantly interferes with daily activities"

- id: ALERT\_FATIGUE\_SEVERE

symptom: fatigue

when: fatigue\_severity == "severe"

override\_to\_grade: 3

long\_q\_ids: # same as above

- "How many hours are you sleeping/spending in bed each day due to fatigue?"

- "Has the fatigue affected your ability to bathe, dress, or feed yourself without help?"

- "Do you have fever, nausea, vomiting, diarrhea, or lack of appetite?"

reason: "OncoLifeAlerts.docx: Severe fatigue rating"

- id: ALERT\_FATIGUE\_MOD3

symptom: fatigue

when: fatigue\_severity == "moderate" and days\_in\_a\_row >= 3

override\_to\_grade: 3

long\_q\_ids: # same as above

- "How many hours are you sleeping/spending in bed each day due to fatigue?"

- "Has the fatigue affected your ability to bathe, dress, or feed yourself without help?"

- "Do you have fever, nausea, vomiting, diarrhea, or lack of appetite?"

reason: "OncoLifeAlerts.docx: Moderate fatigue lasting 3 or more days"

# Eye Complaints

- id: ALERT\_EYE\_TASK\_INTERFERENCE

symptom: eye\_complaints

when: interferes\_with\_daily\_tasks == true

override\_to\_grade: 3

long\_q\_ids:

- "Have you consulted an eye doctor regarding your symptoms?"

reason: "OncoLifeAlerts.docx: Eye symptoms interfere with daily tasks"

- id: ALERT\_EYE\_SEVERE

symptom: eye\_complaints

when: eye\_severity == "severe" or vision\_problem == "double vision"

override\_to\_grade: 3

long\_q\_ids: # same as above

- "Have you consulted an eye doctor regarding your symptoms?"

reason: "OncoLifeAlerts.docx: Severe rating or double vision"

- id: ALERT\_EYE\_MOD3

symptom: eye\_complaints

when: eye\_severity == "moderate" and days\_in\_a\_row >= 3

override\_to\_grade: 3

long\_q\_ids: # same as above

- "Have you consulted an eye doctor regarding your symptoms?"

reason: "OncoLifeAlerts.docx: Moderate eye symptoms over 3 days"

# Mouth Sores

- id: ALERT\_MOUTH\_INTAKE

symptom: mouth\_sores

when: oral\_intake\_pct <= 10

override\_to\_grade: 3

long\_q\_ids:

- "Are your mouth sores causing pain or difficulty swallowing?"

- "How many days have you not had normal food and/or drink?"

- "Assess for dehydration"

reason: "OncoLifeAlerts.docx: Oral intake 'almost nothing' or 'nothing'"

- id: ALERT\_MOUTH\_PAIN

symptom: mouth\_sores

when: mouth\_pain\_severity == "severe"

override\_to\_grade: 3

long\_q\_ids: # same as above

- "Are your mouth sores causing pain or difficulty swallowing?"

- "How many days have you not had normal food and/or drink?"

- "Assess for dehydration"

reason: "OncoLifeAlerts.docx: Severe mouth pain despite medication"

- id: ALERT\_MOUTH\_MOD3

symptom: mouth\_sores

when: mouth\_pain\_severity == "moderate" and days\_in\_a\_row >= 3

override\_to\_grade: 3

long\_q\_ids: # same as above

- "Are your mouth sores causing pain or difficulty swallowing?"

- "How many days have you not had normal food and/or drink?"

- "Assess for dehydration"

reason: "OncoLifeAlerts.docx: Moderate mouth sores over 3 days"

# No Appetite

- id: ALERT\_WEIGHT\_LOSS

symptom: no\_appetite

when: weight\_loss\_pct >= 2

override\_to\_grade: 3

long\_q\_ids:

- "Are you experiencing difficulty swallowing?"

- "Assess for dehydration?"

- "Are you hungry?"

reason: "OncoLifeAlerts.docx: Weight loss ≥2% in one week"

- id: ALERT\_APPETITE\_INTAKE

symptom: no\_appetite

when: oral\_intake\_pct <= 10

override\_to\_grade: 3

long\_q\_ids: # same as above

- "Are you experiencing difficulty swallowing?"

- "Assess for dehydration?"

- "Are you hungry?"

reason: "OncoLifeAlerts.docx: Oral intake 'almost nothing' or 'nothing'"

- id: ALERT\_APPETITE\_SWALLOW

symptom: no\_appetite

when: difficulty\_swallowing == true

override\_to\_grade: 3

long\_q\_ids: # same as above

- "Are you experiencing difficulty swallowing?"

- "Assess for dehydration?"

- "Are you hungry?"

reason: "OncoLifeAlerts.docx: Difficulty swallowing"

# Constipation

- id: ALERT\_CONSTIPATION\_NONE

symptom: constipation

when: days\_since\_bm > 2

override\_to\_grade: 3

long\_q\_ids:

- "Are you experiencing abdominal pain or vomiting?"

- "Have you taken any stool softeners or medications for constipation? Which ones?"

- "Assess for dehydration"

reason: "OncoLifeAlerts.docx: No bowel movement for more than 2 days"

# Urinary Problems

- id: ALERT\_URINARY\_OUTPUT\_CHANGE

symptom: urinary\_problems

when: urine\_output\_changed == true

override\_to\_grade: 3

long\_q\_ids:

- "Is there an odor to the urine?"

- "Are you drinking fluids normally?"

- "Are you diabetic? If yes, what is your blood sugar running?"

- "Are you able to perform daily self-care activities like bathing and dressing yourself?"

reason: "OncoLifeAlerts.docx: Significant change in urine amount"

- id: ALERT\_URINARY\_PAIN

symptom: urinary\_problems

when: pelvic\_pain == true or urine\_blood == true or urination\_burning\_severity in ["moderate","severe"]

override\_to\_grade: 3

long\_q\_ids: # same as above

- "Is there an odor to the urine?"

- "Are you drinking fluids normally?"

- "Are you diabetic? If yes, what is your blood sugar running?"

- "Are you able to perform daily self-care activities like bathing and dressing yourself?"

reason: "OncoLifeAlerts.docx: Pelvic pain, blood in urine, or moderate/severe burning sensation"

# Skin Rash or Redness

- id: ALERT\_RASH\_INFUSION\_SITE

symptom: skin\_rash

when: (rash\_location == "infusion\_site" and (rash\_swelling == true or blistering == true or redness == true or open\_wound == true or fever\_present == true or chills == true))

override\_to\_grade: 3

long\_q\_ids:

- "How many days have you had it?"

- "If more than 1, is it getting worse?"

- "Select all that apply: Currently feeling unwell, broken or cracked skin, any liquid coming from the rash or infusion site, Swelling or warm to touch"

reason: "OncoLifeAlerts.docx: Infusion site rash with complicating features"

- id: ALERT\_RASH\_GENERAL

symptom: skin\_rash

when: (rash\_location != "infusion\_site" and (adl\_interference == true or temp\_f > 100.4 or body\_coverage\_pct > 30))

override\_to\_grade: 3

long\_q\_ids: # same as above

- "How many days have you had it?"

- "If more than 1, is it getting worse?"

- "Select all that apply: Currently feeling unwell, broken or cracked skin, any liquid coming from the rash or infusion site, Swelling or warm to touch"

reason: "OncoLifeAlerts.docx: General rash affecting ADLs, fever >100.4°F, or covering >30% of body"

# Pain

- id: ALERT\_PAIN\_CHEST

symptom: pain

when: chest\_pain == true

override\_to\_grade: 4

long\_q\_ids: []

reason: "OncoLifeAlerts.docx: Chest pain – immediate alert"

- id: ALERT\_PAIN\_ADL

symptom: pain

when: pain\_severity in ["moderate","severe"] and interferes\_with\_adl == true

override\_to\_grade: 3

long\_q\_ids:

- "Any headache, double vision, abdominal pain, vomiting, bloody or black stool?"

- "Is the pain getting worse?"

- "Any numbness or tingling of arms or legs?"

- "Do you have trouble keeping balance or walking?"

- "Did you get neulasta within the last 3 days?"

- "Is the pain affecting your ability to sleep or rest?"

- "If pain around IV/port site: is there swelling, blistering, redness or an open wound?"

- "Do you have chills?"

reason: "OncoLifeAlerts.docx: Moderate/severe pain interfering with ADLs"

- id: ALERT\_PAIN\_FEVER

symptom: pain

when: temp\_f > 100.4

override\_to\_grade: 3

long\_q\_ids: # same as above

- "Any headache, double vision, abdominal pain, vomiting, bloody or black stool?"

- "Is the pain getting worse?"

- "Any numbness or tingling of arms or legs?"

- "Do you have trouble keeping balance or walking?"

- "Did you get neulasta within the last 3 days?"

- "Is the pain affecting your ability to sleep or rest?"

- "If pain around IV/port site: is there swelling, blistering, redness or an open wound?"

- "Do you have chills?"

reason: "OncoLifeAlerts.docx: Fever >100.4°F with pain"

# Swelling

- id: ALERT\_SWELLING\_UNILATERAL

symptom: swelling

when: swelling\_location == "one\_leg"

override\_to\_grade: 3

long\_q\_ids:

- "Are you experiencing shortness of breath along with the swelling?"

- "Do you have a history of blood clots?"

reason: "OncoLifeAlerts.docx: Swelling in one leg – possible DVT"

- id: ALERT\_SWELLING\_PAIN

symptom: swelling

when: swelling\_redness == true or swelling\_pain\_severity in ["moderate","severe"]

override\_to\_grade: 3

long\_q\_ids: # same as above

- "Are you experiencing shortness of breath along with the swelling?"

- "Do you have a history of blood clots?"

reason: "OncoLifeAlerts.docx: Swelling with redness or moderate/severe pain"

# Cough

- id: ALERT\_COUGH\_URGENT

symptom: cough

when: chest\_pain == true or shortness\_of\_breath == true

override\_to\_grade: 4

long\_q\_ids: []

reason: "OncoLifeAlerts.docx: Chest pain or SOB with cough – immediate alert"

- id: ALERT\_COUGH\_ACTIVITY

symptom: cough

when: cough\_prevents\_adl == true

override\_to\_grade: 3

long\_q\_ids: []

reason: "OncoLifeAlerts.docx: Cough prevents daily activities"

- id: ALERT\_COUGH\_FEVER\_OR\_SPO2

symptom: cough

when: temp\_f > 100.4 or spo2 < 92

override\_to\_grade: 3

long\_q\_ids: []

reason: "OncoLifeAlerts.docx: Fever >100.4°F or SpO₂ <92% with cough"

# Neuropathy

- id: ALERT\_NEUROPATHY\_SEVERE

symptom: neuropathy

when: neuropathy\_severity == "severe"

override\_to\_grade: 3

long\_q\_ids:

- "Is neuropathy affecting your ability to perform daily tasks such as buttoning your shirt, typing, turning pages, or walking long distances?"

- "Has the numbness or tingling gotten worse or moved higher up your limbs?"

- "Have you had trouble feeling the ground when walking or felt unsteady?"

reason: "OncoLifeAlerts.docx: Severe neuropathy indication"

- id: ALERT\_NEUROPATHY\_ADL

symptom: neuropathy

when: interferes\_with\_adl == true

override\_to\_grade: 3

long\_q\_ids: # same as above

- "Is neuropathy affecting your ability to perform daily tasks such as buttoning your shirt, typing, turning pages, or walking long distances?"

- "Has the numbness or tingling gotten worse or moved higher up your limbs?"

- "Have you had trouble feeling the ground when walking or felt unsteady?"

reason: "OncoLifeAlerts.docx: Neuropathy interferes with ADLs"

- id: ALERT\_NEUROPATHY\_MOD3

symptom: neuropathy

when: neuropathy\_severity == "moderate" and days\_in\_a\_row >= 3

override\_to\_grade: 3

long\_q\_ids: # same as above

- "Is neuropathy affecting your ability to perform daily tasks such as buttoning your shirt, typing, turning pages, or walking long distances?"

- "Has the numbness or tingling gotten worse or moved higher up your limbs?"

- "Have you had trouble feeling the ground when walking or felt unsteady?"

reason: "OncoLifeAlerts.docx: Moderate neuropathy over 3 consecutive days"