**Phase 1 Instructions**

Thank you again for participating in the development of OncQA!

You are now beginning Phase 1. Please determine whether there is enough information to provide an initial response, and if not provide what additional information from the patient’s medical record is needed. Then, provide a response to the best of your ability, similarly to how you would respond to a patient’s electronic medical record inbox message. You should type your answers where indicated below each question. Each question will be followed by a 2-question survey.

*It is important that you do not change the order of any of the samples in this document.*

*Please do not discuss or show the samples to anyone, including other participants.*

Please email us if you have any questions.

We are so appreciative of your help with this project.

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=================== New example ======================

Input: EHR Context:

Age: 47 years

Gender: Female

Cancer diagnosis: Stage II invasive ductal carcinoma of the breast

PMH: asthma, obesity

Prior cancer treatments: lumpectomy (completed 2 months ago)

Current cancer treatments: adjuvant doxorubicin/cyclophosphamide (started 1 month ago)

Current medication list: albuterol, montelukast, metformin, aspirin, atorvastatin, vitamin D

Summary of most recent oncology visit (3 weeks ago): 47-year-old female with a history of stage II breast cancer s/p lumpectomy. She is on adjuvant doxorubicin/cyclophosphamide and tolerating treatment well. Will continue treatment as planned.

Patient message:

I've noticed that my hair has started falling out more than usual. Is this a side effect of my treatment? What can I do to minimize hair loss?

Type response here:

Unfortunately it is a side effect of the chemotherapy you are on. One treatment option to help with decreasing hair loss is a cold cap treatment which is over the counter.

**How challenging was it to respond to this message?**

| Very trivial | Trivial | Neutral | Challenging | Very challenging |
| --- | --- | --- | --- | --- |
|  |  |  | X |  |

**Do you believe this patient is experiencing a severe medical event?**

| Strongly disagree | Disagree | Neither agree or disagree | Agree | Strongly agree |
| --- | --- | --- | --- | --- |
|  | X |  |  |  |

=================== New example ======================

Input: EHR Context:

Age: 43 years

Gender: Female

Cancer diagnosis: Stage II triple-negative breast cancer

PMH: None

Prior cancer treatments: lumpectomy (completed 2 months ago)

Current cancer treatments: adjuvant dose-dense doxorubicin/cyclophosphamide (started 1 month ago)

Current medication list: None

Summary of most recent oncology visit (3 weeks ago): 43-year-old female with stage II triple-negative breast cancer s/p lumpectomy. She is on adjuvant dose-dense doxorubicin/cyclophosphamide and tolerating treatment well. Will continue treatment as planned.

Patient message:

I've been experiencing mouth sores and difficulty eating for the past few days. Is this a side effect of my treatment? What can I do to manage this?

Type response here:

Unfortunately it is. I would recommend magic mouthwash rinses. I can send you a prescription for it to pick up. I would recommend using it 10 mins before each meal.

**How challenging was it to respond to this message?**

| Very trivial | Trivial | Neutral | Challenging | Very challenging |
| --- | --- | --- | --- | --- |
|  |  | X |  |  |

**Do you believe this patient is experiencing a severe medical event?**

| Strongly disagree | Disagree | Neither agree or disagree | Agree | Strongly agree |
| --- | --- | --- | --- | --- |
|  | X |  |  |  |

=================== New example ======================

Input: EHR Context:

Age: 57 years

Gender: Male

Cancer diagnosis: Stage IV prostate cancer

PMH: benign prostatic hyperplasia, hypertension

Prior cancer treatments: None

Current cancer treatments: androgen deprivation therapy + abiraterone (started 2 months ago)

Current medication list: tamsulosin, lisinopril, amlodipine, aspirin

Summary of most recent oncology visit (4 weeks ago): 57-year-old male with newly diagnosed stage IV prostate cancer. He is on androgen deprivation therapy + abiraterone and tolerating treatment well. Will continue treatment as planned.

Patient message:

I've been experiencing hot flashes and night sweats for the past week. Is this a side effect of my treatment, or should I be concerned about something else?

Type response here:

Yes it is from hormone therapy. If they get worse, please let us and med onc know there are prescription medications we can prescribe to help mitigate some of those symptoms.

**How challenging was it to respond to this message?**

| Very trivial | Trivial | Neutral | Challenging | Very challenging |
| --- | --- | --- | --- | --- |
|  |  | X |  |  |

**Do you believe this patient is experiencing a severe medical event?**

| Strongly disagree | Disagree | Neither agree or disagree | Agree | Strongly agree |
| --- | --- | --- | --- | --- |
|  | X |  |  |  |

=================== New example ======================

Input: EHR Context:

Age: 65 years

Gender: Female

Cancer diagnosis: Stage IIIB non-small cell lung cancer (NSCLC)

PMH: chronic obstructive pulmonary disease, hypertension

Prior cancer treatments: concurrent carboplatin/pemetrexed and radiotherapy

Current cancer treatments: durvalumaby (started 3 months ago)

Current medication list: tiotropium, albuterol, lisinopril, amlodipine, aspirin

Summary of most recent oncology visit (4 weeks ago): 65-year-old female with unresectable stage IIIB NSCLC. She is on consolidation durvalumabd and tolerating treatment well. Will continue treatment as planned.

Patient message:

I've been experiencing shortness of breath and a persistent cough for the past week. Is this a side effect of my treatment, or should I be concerned about something else?

Type response here:

It is not a common side effect. If you wouldn't’ mind coming in today to clinic for a visit that would be great for further evaluation.

**How challenging was it to respond to this message?**

| Very trivial | Trivial | Neutral | Challenging | Very challenging |
| --- | --- | --- | --- | --- |
|  |  | X |  |  |

**Do you believe this patient is experiencing a severe medical event?**

| Strongly disagree | Disagree | Neither agree or disagree | Agree | Strongly agree |
| --- | --- | --- | --- | --- |
|  |  |  | X |  |

=================== New example ======================

Input: EHR Context:

Age: 62 years

Gender: Female

Cancer diagnosis: Metastatic cervical squamous cell carcinoma

PMH: hypothyroidism, diabetes

Prior cancer treatments: radical hysterectomy and adjuvant chemoradiotherapy (completed 1 year ago)

Current cancer treatments: chemotherapy and immunotherapy (started 2 months ago)

Current medication list: levothyroxine, metformin, acetaminophen, aspirin, atorvastatin, vitamin D

Summary of most recent oncology visit (6 weeks ago): 62 year old female with a history of cervical cancer s/p hysterectomy and adjuvant cisplatin-based chemoradiotherapy, now with distant recurrence to the liver and lungs. She is on first-line systemic therapy, and is doing well overall with mild neuropathy. Will continue treatment as planned.

Patient message:

I've been experiencing persistent pelvic pain for the past two weeks. I tried ibuprofen, but it didn't help much. What should I do to feel better? Do I need to go to the emergency room?

Type response here:

Please go to the ER for further evaluation and treatment. I will also contact your medical oncologist as well. We will have to further evaluate with imaging to see what is going on.

**How challenging was it to respond to this message?**

| Very trivial | Trivial | Neutral | Challenging | Very challenging |
| --- | --- | --- | --- | --- |
|  |  | X |  |  |

**Do you believe this patient is experiencing a severe medical event?**

| Strongly disagree | Disagree | Neither agree or disagree | Agree | Strongly agree |
| --- | --- | --- | --- | --- |
|  |  |  | X |  |

=================== New example ======================

Input: EHR Context:

Age: 63 years

Gender: Female

Cancer diagnosis: Stage II triple-negative breast cancer

PMH: hypertension, osteoporosis

Prior cancer treatments: lumpectomy, adjuvant chemotherapy and radiation therapy (completed 4 years ago)

Current cancer treatments: chemotherapy (started 1 month ago)

Current medication list: lisinopril, alendronate, calcium with vitamin D, ibuprofen, ondansetron

Summary of most recent oncology visit (3 weeks ago): 63 year old female with a history of breast cancer s/p lumpectomy, adjuvant chemotherapy, and radiation therapy, now with recurrence in the lungs, on first-line chemo. She is tolerating the treatment well with mild fatigue. Will continue treatment as planned.

Patient message:

I am feeling nauseous and have had a horrible headache for the past few days. I have Zofran at home which helped the nausea a little, but Tylenol isn‚Äôt doing anything for the headache. What should I do?.

Type response here:

Please go to the ER so that they can do additional imaging and look into this further. They can also give you IV medications to help your nausea.

**How challenging was it to respond to this message?**

| Very trivial | Trivial | Neutral | Challenging | Very challenging |
| --- | --- | --- | --- | --- |
|  |  | X |  |  |

**Do you believe this patient is experiencing a severe medical event?**

| Strongly disagree | Disagree | Neither agree or disagree | Agree | Strongly agree |
| --- | --- | --- | --- | --- |
|  |  |  |  | X |

=================== New example ======================

Input: EHR Context:

Age: 58 years

Gender: Female

Cancer diagnosis: Metastatic colorectal adenocarcinoma

PMH: diabetes, hypertension

Prior cancer treatments: surgery, adjuvant chemotherapy with oxaliplatin and capecitabine (completed 3 years ago)

Current cancer treatments: chemotherapy only (started 2 months ago)

Current medication list: metformin, lisinopril, atorvastatin, aspirin, insulin glulisine

Summary of most recent oncology visit (6 weeks ago): 58 year old female with a history of colorectal cancer s/p surgery and adjuvant chemotherapy, now with distant metastases involving the liver, lungs. Since starting systemic therapy, she has had mild diarrhea. Will continue treatment as planned.

Patient message:

I feel really lightheaded this morning. I almost passed out when I got up from bed but my husband caught me. Is there anything I can do to feel better?

Type response here:

Please go to the ER so that you can get IV fluids and they can look into this further.

**How challenging was it to respond to this message?**

| Very trivial | Trivial | Neutral | Challenging | Very challenging |
| --- | --- | --- | --- | --- |
|  |  | X |  |  |

**Do you believe this patient is experiencing a severe medical event?**

| Strongly disagree | Disagree | Neither agree or disagree | Agree | Strongly agree |
| --- | --- | --- | --- | --- |
|  |  |  | X |  |

=================== New example ======================

Input: EHR Context:

Age: 55 years

Gender: Female

Cancer diagnosis: Stage IV gastric adenocarcinoma

PMH: GERD, anemia

Prior cancer treatments: none

Current cancer treatments: chemotherapy and targeted therapy (started 2 months ago)

Current medication list: omeprazole, iron supplement

Summary of most recent oncology visit (4 weeks ago): 55 year old female with a new diagnosis of metastatic gastric cancer. She is on first-line systemic therapy. Mild nausea and fatigue noted, but overall tolerating treatment.

Patient message:

I've been experiencing persistent heartburn and acid reflux despite taking the omeprazole. Should I change my dosage?

Type response here:

We can add an another medication like malox over the counter to help with your heart burn.

**How challenging was it to respond to this message?**

| Very trivial | Trivial | Neutral | Challenging | Very challenging |
| --- | --- | --- | --- | --- |
|  |  | X |  |  |

**Do you believe this patient is experiencing a severe medical event?**

| Strongly disagree | Disagree | Neither agree or disagree | Agree | Strongly agree |
| --- | --- | --- | --- | --- |
|  | X |  |  |  |

=================== New example ======================

Input: EHR Context:

Age: 55 years

Gender: Male

Cancer diagnosis: Metastatic prostate adenocarcinoma

PMH: benign prostatic hyperplasia (BPH), hypertension

Prior cancer treatments: hormone therapy and radiation therapy (completed 8 months ago)

Current cancer treatments: androgen deprivation therapy (started 1 month ago)

Current medication list: tamsulosin, finasteride, amlodipine, lisinopril, atorvastatin

Summary of most recent oncology visit (3 weeks ago): 55 year old male with a history of prostate cancer s/p definitive treatment, now with metastatic disease involving the bones He is on androgen deprivation therapy. Mild fatigue and hot flashes noted, but overall tolerating treatment.

Patient message:

I am having worsening pain in my right upper arm. There has been dull pain there for a few months, but this week it got a lot worse suddenly. What can I do to manage this?

Type response here:

I would recommend going to the ER so they can do an US of your arm as soon as possible. I want to make sure you haven’t developed a blood clot in your arm.

**How challenging was it to respond to this message?**

| Very trivial | Trivial | Neutral | Challenging | Very challenging |
| --- | --- | --- | --- | --- |
|  |  | X |  |  |

**Do you believe this patient is experiencing a severe medical event?**

| Strongly disagree | Disagree | Neither agree or disagree | Agree | Strongly agree |
| --- | --- | --- | --- | --- |
|  |  |  | X |  |

=================== New example ======================

Input: EHR Context:

Age: 47 years

Gender: Male

Cancer diagnosis: Stage III esophageal adenocarcinoma

PMH: gastroesophageal reflux disease (GERD), obesity

Prior cancer treatments: neoadjuvant chemoradiation and esophagectomy (completed 4 months ago)

Current cancer treatments: immunotherapy (started 4 months ago)

Current medication list: omeprazole, pantoprazole, metformin, ibuprofen

Summary of most recent oncology visit (6 weeks ago): 47 year old male with a history of esophageal cancer s/p chemoradiation per CROSS, esophagectomy, now on neoadjuvant chemotherapy and targeted therapy. He is doing well with no major issues.

Patient message:

I am noticing some new shortness of breath and chest pain. I thought it might be my GERD, but tried increasing acid reflux medications and it didn‚Äôt help. Should I be concerned about these new symptoms?

Type response here:

I recommend that you go to the ER for further evaluation and treatment. They can also do imaging soon so we can know what is going on.

**How challenging was it to respond to this message?**

| Very trivial | Trivial | Neutral | Challenging | Very challenging |
| --- | --- | --- | --- | --- |
|  |  | X |  |  |

**Do you believe this patient is experiencing a severe medical event?**

| Strongly disagree | Disagree | Neither agree or disagree | Agree | Strongly agree |
| --- | --- | --- | --- | --- |
|  |  |  | X |  |

=================== New example ======================

Input: EHR Context:

Age: 67 years

Gender: Female

Cancer diagnosis: Stage IV colorectal adenocarcinoma

PMH: hypertension, hyperlipidemia

Prior cancer treatments: surgery, adjuvant chemotherapy (completed 3 years ago)

Current cancer treatments: chemotherapy only (started 2 months ago)

Current medication list: amlodipine, atorvastatin, aspirin

Summary of most recent oncology visit (6 weeks ago): 67 year old female with a history of colorectal cancer s/p surgery and adjuvant chemotherapy, now with local and distant recurrence. She has started is tolerating chemotherapy well with mild fatigue.

Patient message:

I've been experiencing severe constipation for the past week. I've tried over-the-counter remedies, but nothing seems to be working. What should I do to find relief?

Need more info - when was your last BM. What OTC remedies are you taking.

Type response here:

I would try an over the counter enema or dulcolax suppository to see if that helps with your constipation.

**How challenging was it to respond to this message?**

| Very trivial | Trivial | Neutral | Challenging | Very challenging |
| --- | --- | --- | --- | --- |
|  |  |  | X |  |

**Do you believe this patient is experiencing a severe medical event?**

| Strongly disagree | Disagree | Neither agree or disagree | Agree | Strongly agree |
| --- | --- | --- | --- | --- |
|  |  | X |  |  |

=================== New example ======================

Input: EHR Context:

Age: 59 years

Gender: Female

Cancer diagnosis: Stage IIA endometrial adenocarcinoma

PMH: obesity, hypertension, diabetes

Prior cancer treatments: surgery (6 weeks ago)

Current cancer treatments: radiotherapy

Current medication list: metformin, lisinopril, atorvastatin, ondansetron

Summary of most recent oncology visit (1 week ago): 59 year old female with a history of endometrial cancer s/p surgery, now receiving adjuvant radiotherapy. Mild nausea and fatigue noted at today’s visit.

Patient message:

I've been experiencing persistent nausea and vomiting despite taking Zofran. Should I try any other remedies or contact the oncology clinic for further guidance?

Type response here:

Please contact the oncology clinic for further guidance.

**How challenging was it to respond to this message?**

| Very trivial | Trivial | Neutral | Challenging | Very challenging |
| --- | --- | --- | --- | --- |
|  |  | X |  |  |

**Do you believe this patient is experiencing a severe medical event?**

| Strongly disagree | Disagree | Neither agree or disagree | Agree | Strongly agree |
| --- | --- | --- | --- | --- |
|  |  |  | X |  |

=================== New example ======================

Input: EHR Context:

Age: 53 years

Gender: Female

Cancer diagnosis: Stage III triple-negative breast cancer

PMH: none

Prior cancer treatments: mastectomy, adjuvant chemotherapy and radiation therapy (completed 1 years ago)

Current cancer treatments: chemotherapy and immunotherapy (started 3 months ago)

Current medication list: None

Summary of most recent oncology visit (4 weeks ago): 53 year old female with a history of breast cancer s/p mastectomy, adjuvant chemotherapy, and radiation therapy, now on chemotherapy and immunotherapy for metastatic recurrence. No issue today, she will return in 3 months for imaging.

Patient message:

I have a fever that went up to 102F this morning. It went away with tylenol. Otherwise I am tired but don’t have other issues. Do I need to come in to be evaluated?

Additional info needed: Any other symptoms? Do you have a fever now.

Type response here:

Please come in to get evaluated. We will get some blood tests and also will be ordering a COVID test for you.

**How challenging was it to respond to this message?**

| Very trivial | Trivial | Neutral | Challenging | Very challenging |
| --- | --- | --- | --- | --- |
|  |  | X |  |  |

**Do you believe this patient is experiencing a severe medical event?**

| Strongly disagree | Disagree | Neither agree or disagree | Agree | Strongly agree |
| --- | --- | --- | --- | --- |
|  |  |  | X |  |

=================== New example ======================

Input:

EHR Context:

Age: 52 years

Gender: Male

Cancer diagnosis: Stage IIIB lung adenocarcinoma

PMH: Hypertension, chronic obstructive pulmonary disease (COPD)

Prior cancer treatments: Chemotherapy with cisplatin and pemetrexed (completed 6 months ago)

Current cancer treatments: None

Current medication list: Lisinopril, albuterol, tiotropium, simvastatin, aspirin

Summary of most recent oncology visit (3 months ago): 52-year-old male with a history of Stage IIIB lung cancer s/p cisplatin and pemetrexed chemotherapy presents for follow-up. Patient reports improvement in his symptoms and is clinically stable. Will continue ongoing surveillance.

Patient message:

I have been experiencing shortness of breath and wheezing, worse than normal for me. I increased my oxygen from 2L to 4L which helped. What should I do?

Type response here:

Please come into the oncology clinic so we can evaluate further. We will also be getting additional imaging of your lungs.

**How challenging was it to respond to this message?**

| Very trivial | Trivial | Neutral | Challenging | Very challenging |
| --- | --- | --- | --- | --- |
|  |  |  | X |  |

**Do you believe this patient is experiencing a severe medical event?**

| Strongly disagree | Disagree | Neither agree or disagree | Agree | Strongly agree |
| --- | --- | --- | --- | --- |
|  |  |  | X |  |

=================== New example ======================

Input:

EHR Context:

Age: 70 years

Gender: Male

Cancer diagnosis: Stage I prostate adenocarcinoma

PMH: Benign prostatic hyperplasia (BPH), hypertension

Prior cancer treatments: Radical prostatectomy (completed 1 year ago)

Current cancer treatments: None

Current medication list: Tamsulosin, doxazosin, metoprolol, aspirin

Summary of most recent oncology visit (6 weeks ago): 70-year-old male with a history of Stage I prostate cancer s/p surgery presents for follow-up. Patient shows no signs of disease recurrence but has erectile dysfunction, for which he will see his urologist.

Patient message:

I am noticing that I need to strain really hard to urinate. Is this normal or do I need to be evaluated?

Need more info: Is urine coming out when you strain, is there blood in the urine, burning w urination ? If no blood, no burning and there is urine coming out.

Type response here:

This can happen after surgery. I recommend follow up with your urologist so that they can do further bladder studies and evaluate further.

**How challenging was it to respond to this message?**

| Very trivial | Trivial | Neutral | Challenging | Very challenging |
| --- | --- | --- | --- | --- |
|  |  |  | X |  |

**Do you believe this patient is experiencing a severe medical event?**

| Strongly disagree | Disagree | Neither agree or disagree | Agree | Strongly agree |
| --- | --- | --- | --- | --- |
|  |  |  | X |  |

=================== New example ======================

Input:

EHR Context:

Age: 63 years

Gender: Male

Cancer diagnosis: Stage II gastric adenocarcinoma

PMH: Hypertension, hyperlipidemia

Prior cancer treatments: Per-operative chemotherapy and gastrectomy (completed 8 months ago)

Current cancer treatments: None

Current medication list: Amlodipine, atorvastatin, aspirin

Summary of most recent oncology visit (4 months ago): 63-year-old male with a history of Stage II gastric cancer s/p perioperative chemotherapy and surgery and presents for follow-up. Imaging shows no evidence of disease.

Patient message:

I've been experiencing persistent indigestion and heartburn. What should I take to feel better?

Type response here:

What have you been taking? We can first try malox over the counter and see if that helps.

**How challenging was it to respond to this message?**

| Very trivial | Trivial | Neutral | Challenging | Very challenging |
| --- | --- | --- | --- | --- |
|  |  | X |  |  |

**Do you believe this patient is experiencing a severe medical event?**

| Strongly disagree | Disagree | Neither agree or disagree | Agree | Strongly agree |
| --- | --- | --- | --- | --- |
|  | X |  |  |  |

=================== New example ======================

Input:

EHR Context:

Age: 59 years

Gender: Female

Cancer diagnosis: Stage IV lung adenocarcinoma

PMH: None

Prior cancer treatments: Chemotherapy with carboplatin, pemetrexed, and pembrolizumab (completed 2 months ago)

Current cancer treatments: None

Current medication list: None

Summary of most recent oncology visit (1 month ago): 59-year-old female with a history of Stage IV lung cancer, currently on a treatment break, who presents for follow-up. He is doing well, and imaging showed slight disease progression.

Patient message:

I've been feeling very fatigued and weak lately. Can this be a side effect of my previous chemotherapy?

Type response here:

Yes it could be. I recommend that you come in for further evaluation. We will also get further blood tests as well for further evaluation.

**How challenging was it to respond to this message?**

| Very trivial | Trivial | Neutral | Challenging | Very challenging |
| --- | --- | --- | --- | --- |
|  |  |  | X |  |

**Do you believe this patient is experiencing a severe medical event?**

| Strongly disagree | Disagree | Neither agree or disagree | Agree | Strongly agree |
| --- | --- | --- | --- | --- |
|  |  | X |  |  |

=================== New example ======================

Input:

EHR Context:

Age: 60 years

Gender: Male

Cancer diagnosis: Stage II bladder urothelial carcinoma

PMH: Benign prostatic hyperplasia (BPH), diabetes

Prior cancer treatments: Transurethral resection of bladder tumor followed by intravesical chemotherapy (completed 9 months ago)

Current cancer treatments: None

Current medication list: Tamsulosin, metformin, lisinopril, aspirin

Summary of most recent oncology visit (4 months ago): 60-year-old male with a history of Stage IIB bladder cancer s/p surgery and intravesical chemotherapy presents for follow-up. Patient is clinically without evidence of recurrence. Will continue ongoing surveillance.

Patient message:

I've been experiencing blood in my urine again. Should I be concerned about a recurrence of my bladder cancer?

Type response here:

I’d like you to come in for further evaluation with urology.

**How challenging was it to respond to this message?**

| Very trivial | Trivial | Neutral | Challenging | Very challenging |
| --- | --- | --- | --- | --- |
|  |  |  | X |  |

**Do you believe this patient is experiencing a severe medical event?**

| Strongly disagree | Disagree | Neither agree or disagree | Agree | Strongly agree |
| --- | --- | --- | --- | --- |
|  |  |  | X |  |

=================== New example ======================

Input:

EHR Context:

Age: 48 years

Gender: Female

Cancer diagnosis: Stage III ovarian serous carcinoma

PMH: None

Prior cancer treatments: Surgery followed by chemotherapy with carboplatin and paclitaxel (completed 5 months ago)

Current cancer treatments: None

Current medication list: None

Summary of most recent oncology visit (3 months ago): 48-year-old female with a history of Stage III ovarian cancer s/p surgery and chemotherapy presents for follow-up. Patient is clinically without evidence of disease recurrence.

Patient message:

I've been having chest pain and shortness of breath for the past 3 days. What should I do?

Type response here:

I recommend that you go to the ER for further evaluation. We want to make sure you don’t have any clots in your lungs. You will be undergoing additional imaging in the ER.

**How challenging was it to respond to this message?**

| Very trivial | Trivial | Neutral | Challenging | Very challenging |
| --- | --- | --- | --- | --- |
|  |  | X |  |  |

**Do you believe this patient is experiencing a severe medical event?**

| Strongly disagree | Disagree | Neither agree or disagree | Agree | Strongly agree |
| --- | --- | --- | --- | --- |
|  |  |  | X |  |

=================== New example ======================

Input:

EHR Context:

Age: 56 years

Gender: Male

Cancer diagnosis: Stage I melanoma

PMH: None

Prior cancer treatments: Wide excision surgery (completed 6 months ago)

Current cancer treatments: None

Current medication list: None

Summary of most recent oncology visit (3 months ago): 56-year-old male with a history of Stage I melanoma s/p wide local excision presents for follow-up. No evidence of disease recurrence noted.

Patient message:

The scar from my melanoma surgery seems like it is opening up again and it is bleeding. Could this mean that the cancer is back?

Type response here:

Not necessarily. I recommend you come back into the clinic so we can evaluate this further.

**How challenging was it to respond to this message?**

| Very trivial | Trivial | Neutral | Challenging | Very challenging |
| --- | --- | --- | --- | --- |
|  |  |  |  | X |

**Do you believe this patient is experiencing a severe medical event?**

| Strongly disagree | Disagree | Neither agree or disagree | Agree | Strongly agree |
| --- | --- | --- | --- | --- |
|  |  |  | X |  |

=================== New example ======================

Input:

EHR Context:

Age: 681 years

Gender: Female

Cancer diagnosis: Stage IIA breast ductal carcinoma

PMH: Hypertension, osteoporosis

Prior cancer treatments: Lumpectomy followed by radiotherapy (completed 8 year ago)

Current cancer treatments: None

Current medication list: Lisinopril, alendronate, aspirin

Summary of most recent oncology visit (4 months ago): 81-year-old female with a history of Stage IIA breast cancer s/p breast conservation therapy presents for follow-up. Patient is clinically without evidence of recurrence.

Patient message:

I've been experiencing really bad back pain in my mid-back and I can‚Äôt lie flat anymore because of it. Do I need to come in to be seen or should I try pain killers first??

Additional info needed: Any neuro side effects?

Type response here:

Please go to the ER for further evaluation and imaging.

**How challenging was it to respond to this message?**

| Very trivial | Trivial | Neutral | Challenging | Very challenging |
| --- | --- | --- | --- | --- |
|  |  | X |  |  |

**Do you believe this patient is experiencing a severe medical event?**

| Strongly disagree | Disagree | Neither agree or disagree | Agree | Strongly agree |
| --- | --- | --- | --- | --- |
|  |  |  | X |  |

=================== New example ======================

Input:

EHR Context:

Age: 64 years

Gender: Male

Cancer diagnosis: resectable pancreatic adenocarcinoma

PMH: Hypertension, diabetes

Prior cancer treatments: Whipple procedure followed by adjuvant gemcitabine/capecitabine and chemoradiotherapy(completed 2 years ago)

Current cancer treatments: None

Current medication list: Amlodipine, metformin, insulin

Summary of most recent oncology visit (3 months ago): 64-year-old male with a history of resectable pancreatic cancer s/p surgery, gemcitabine/capecitabine, and chemoradiotherapy presents for follow-up. Patient remains without evidence of disease recurrence.

Patient message:

I've been experiencing weight loss lately. Could this be related to my pancreatic cancer?

Type response here:

It’s hard to say at this time. We will have to further evaluate with imaging and lab tests.

**How challenging was it to respond to this message?**

| Very trivial | Trivial | Neutral | Challenging | Very challenging |
| --- | --- | --- | --- | --- |
|  |  | X |  |  |

**Do you believe this patient is experiencing a severe medical event?**

| Strongly disagree | Disagree | Neither agree or disagree | Agree | Strongly agree |
| --- | --- | --- | --- | --- |
|  |  |  | X |  |

=================== New example ======================

Input:

EHR Context:

Age: 56 years

Gender: Male

Cancer diagnosis: Stage IIIA esophageal adenocarcinoma

PMH: Gastroesophageal reflux disease (GERD), hypertension

Prior cancer treatments: Chemoradiation therapy followed by esophagectomy (completed 1 year ago)

Current cancer treatments: None

Current medication list: Omeprazole, amlodipine, lisinopril

Summary of most recent oncology visit (6 weeks ago): 56-year-old male with a history of Stage IIIA esophageal cancer s/p chemoradiation therapy and surgery presents for follow-up. Patient is without evidence of disease recurrence.

Patient message:

I've been having difficulty swallowing. What should I do to feel better?

Type response here:

I recommend coming into clinic for further evaluation. We will do a swallowing imaging test to see if there are any issues with swallowing we see on imaging.

**How challenging was it to respond to this message?**

| Very trivial | Trivial | Neutral | Challenging | Very challenging |
| --- | --- | --- | --- | --- |
|  |  |  | X |  |

**Do you believe this patient is experiencing a severe medical event?**

| Strongly disagree | Disagree | Neither agree or disagree | Agree | Strongly agree |
| --- | --- | --- | --- | --- |
|  |  | X |  |  |

=================== New example ======================

Input: EHR Context:

Age: 52 years

Gender: Female

Cancer diagnosis: Stage IIIC ovarian cancer

PMH: hypertension, depression

Prior cancer treatments: surgery and chemotherapy (completed 1 year ago)

Current cancer treatments: None

Current medication list: amlodipine, fluoxetine, ibuprofen

Summary of most recent oncology visit (3 months ago): 52-year-old female with a history of Stage IIIC ovarian cancer s/p surgery and chemotherapy presents for follow-up 1 year post-treatment. She is clinically and radiographically without evidence of recurrence. Will continue ongoing surveillance.

Patient message:

I've been feeling very fatigued and have had a low-grade fever for the past few days. I'm worried that my cancer might be coming back. Should I schedule an appointment to discuss my symptoms?

Additional info needeD: What other symptoms are you having? Do you have any URI symptoms? If answer is no then

Type response here:

Please come into clinic tomorrow and we will look into this further. I also recommend you take a COVID test as well.

**How challenging was it to respond to this message?**

| Very trivial | Trivial | Neutral | Challenging | Very challenging |
| --- | --- | --- | --- | --- |
|  |  |  | X |  |

**Do you believe this patient is experiencing a severe medical event?**

| Strongly disagree | Disagree | Neither agree or disagree | Agree | Strongly agree |
| --- | --- | --- | --- | --- |
|  |  | X |  |  |

=================== New example ======================

Input: EHR Context:

Age: 45 years

Gender: Male

Cancer diagnosis: Stage IIB testicular cancer

PMH: asthma, seasonal allergies

Prior cancer treatments: orchiectomy and chemotherapy (completed 2 years ago)

Current cancer treatments: None

Current medication list: montelukast, fluticasone propionate, cetirizine

Summary of most recent oncology visit (6 months ago): 45-year-old male with a history of Stage IIB testicular cancer s/p orchiectomy and chemotherapy presents for follow-up 2 years post-treatment. He is clinically and radiographically without evidence of recurrence. Will continue ongoing surveillance.

Patient message:

I've noticed some swelling and discomfort in my remaining testicle. It's been going on for about a week now. Is this something I should be concerned about? Do I need to come in for an examination?

Additional info needed: Are you having a fever? Do you have any urinary symptoms? If answer is no then..

Type response here:

Please see your urologist for further evaluation in the clinic.

**How challenging was it to respond to this message?**

| Very trivial | Trivial | Neutral | Challenging | Very challenging |
| --- | --- | --- | --- | --- |
|  |  | X |  |  |

**Do you believe this patient is experiencing a severe medical event?**

| Strongly disagree | Disagree | Neither agree or disagree | Agree | Strongly agree |
| --- | --- | --- | --- | --- |
|  |  | X |  |  |

=================== New example ======================

Input: Age: 47 years

Gender: Female

Cancer diagnosis: Stage IV malignant melanoma with lung metastases

PMH: no significant history

Prior cancer treatments: Excisional biopsy (2 years ago), targeted therapy (discontinued)

Current cancer treatments: Pembrolizumab (initiated 4 months ago)

Current medication list: loratadine, ibuprofen, acetaminophen, vitamin D

Summary of most recent oncology visit (1 month ago): 47 year old female with Stage IV malignant melanoma presents for immunotherapy management. Prior targeted therapy discontinued due to limited response. Maintaining on pembrolizumab. Imaging last month showed stable disease with no new metastases.

Patient message:

I woke up today with joint pain in my knees and wrists. It's making it difficult for me to do everyday tasks, and I am worried about it. Is this related to my ongoing pembrolizumab treatment? What can I do to alleviate the pain? Should I stop the immunotherapy?

Response:

Please continue on immunotherapy at this time. I also recommend you see your medical oncologist in clinic for further evaluation. I will inform them of this at this time.

**How challenging was it to respond to this message?**

| Very trivial | Trivial | Neutral | Challenging | Very challenging |
| --- | --- | --- | --- | --- |
|  |  | X |  |  |

**Do you believe this patient is experiencing a severe medical event?**

| Strongly disagree | Disagree | Neither agree or disagree | Agree | Strongly agree |
| --- | --- | --- | --- | --- |
|  |  | X |  |  |