**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: 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:

Hello,

I am sorry to hear that you have been having discomfort. Mouth sores are a common side effect of the treatment that you are receiving and there are ways that we can help manage this with medications or topical treatments and we can provide you with information on this.

**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:

Hello,

Sorry to hear that you are having hot flashes and night sweats. Yes this is a very common side effect of androgen deprivation therapy. There are medications that can be useful to help manage this if it is very bothersome. Otherwise, it is an expected effect of this treatment.

**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: 49 years

Gender: Female

Cancer diagnosis: Stage IIIA epithelial ovarian cancer

PMH: hypothyroidism, obesity

Prior cancer treatments: debulking surgery (completed 3 months ago)

Current cancer treatments: paclitaxel/carboplatin (started 2 months ago)

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

Summary of most recent oncology visit (4 weeks ago): 49-year-old female with stage IIIA epithelial ovarian cancer s/p debulking surgery. She is on adjuvant paclitaxel/carboplatin and tolerating treatment well. Will continue treatment as planned.

Patient message:

I've been experiencing swelling in my legs and feet for the past few days. Is this a side effect of my treatment, or should I be concerned about something else?

Type response here:

Hello,

Thank you for reaching out. It is possible that this is an effect of the treatment that you are receiving but I would like to see you for a physical examination soon so that we can evaluate this and determine why this is occurring and how we can best manage it.

**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: 61 years

Gender: Male

Cancer diagnosis: Stage IV glioblastoma multiforme

PMH: hypertension, type 2 diabetes

Prior cancer treatments: surgical resection (completed 2 months ago)

Current cancer treatments: temozolomide + radiation therapy (started 1 month ago)

Current medication list: metformin, lisinopril, amlodipine, aspirin

Summary of most recent oncology visit (2 weeks ago): 61-year-old male with stage IV glioblastoma multiforme s/p resection. He is on adjuvant temozolomide + radiation therapy and tolerating treatment well. Will continue treatment as planned.

Patient message:

I've been experiencing worsening headaches and difficulty concentrating for the past week. Is this a side effect of my treatment, or should I be concerned about something else?

Hello,

I am sorry to hear about your symptoms. It is possible that this is an effect of the treatment but I would like to see you in person to discuss this and determine if we need to get any additional tests.

Type response here:

**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: 54 years

Gender: Male

Cancer diagnosis: Stage IV hepatocellular carcinoma

PMH: cirrhosis, hepatitis C

Prior cancer treatments: None

Current cancer treatments: sorafenib (started 2 months ago)

Current medication list: lactulose, spironolactone, furosemide, ledipasvir/sofosbuvir

Summary of most recent oncology visit (6 weeks ago): 54-year-old male with newly diagnosed stage IV hepatocellular carcinoma. He is on first-line sorafenib and tolerating treatment well. Will continue treatment as planned.

Patient message:

I've been experiencing abdominal pain and swelling for the past few days. Is this a side effect of my treatment, or should I be concerned about something else?

Type response here:

Hello,

I am sorry to hear that you have been having abdominal pain and swelling. It is possible that this could be an effect of the treatment but I would like to see you in person to discuss this and determine if we need to get any tests such as bloodwork or imaging which can help us understand why are experiencing this.

**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 cholangiocarcinoma

PMH: hypertension, type 2 diabetes

Prior cancer treatments: None

Current cancer treatments: gemcitabine/cisplatin (started 2 months ago)

Current medication list: metformin, lisinopril, amlodipine, aspirin

Summary of most recent oncology visit (4 weeks ago): 59-year-old female with newly diagnosed stage IV cholangiocarcinoma. She is on first-line gemcitabine/cisplatin and tolerating treatment well. Will continue treatment as planned.

Patient message:

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

Type response here:

Hello,

It’s possible that this is a side effect of treatment although I would like you to get some additional tests and come in to be seen so that we can better understand what is causing this and address it.

**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: 69 years

Gender: Female

Cancer diagnosis: Stage III ovarian serous carcinoma

PMH: hypertension, osteoporosis

Prior cancer treatments: debulking surgery, adjuvant chemotherapy (completed 8 months ago)

Current cancer treatments: chemotherapy (started 2 months ago)

Current medication list: amlodipine, lisinopril, alendronate, calcium with vitamin D, acetaminophen

Summary of most recent oncology visit (1 week ago): 69 year old female with a history of ovarian cancer s/p debulking surgery and adjuvant chemotherapy, now with suspected recurrence based on rising tumor markers. She has started chemotherapy and is tolerating it well with minimal side effects. Will continue treatment as planned.

Patient message:

I've been feeling extremely fatigued lately and my appetite has decreased significantly. Is this common? Should I be concerned?

Type response here:

Hello,

These are unfortunately common side effects of the treatment that you are receiving. However, I would like to see you and examine you to see if we need any additional 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: 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’t doing anything for the headache. What should I do?.

Type response here:

Hello,

I am concerned about your symptoms and I would like to get some additional tests including an MRI of your brain and see you today in the office.

**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: 42 years

Gender: Male

Cancer diagnosis: Stage III Hodgkin's lymphoma

PMH: none

Prior cancer treatments: none

Current cancer treatments: chemotherapy and immunotherapy (started 4 weeks ago)

Current medication list: None

Summary of most recent oncology visit (1 week ago): 42 year old male recently diagnosed with Hodgkin's lymphoma. He has started first-line systemic therapy and is tolerating it well with no significant side effects. Will continue treatment as planned.

Patient message:

I am feeling short of breath and my arm is starting to swell up. Is this normal?

Type response here:

Hello,

I am concerned about your shortness of breath and swelling. I think that it would be best for you to be seen immediately. Please proceed to the emergency room.

**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: 49 years

Gender: Female

Cancer diagnosis: Stage IIIA lung adenocarcinoma

PMH: asthma, obesity

Prior cancer treatments: none

Current cancer treatments: chemotherapy and radiation therapy (started 3 weeks ago)

Current medication list: albuterol inhaler, fluticasone inhaler, montelukast, ibuprofen

Summary of most recent oncology visit (1 week ago): 49 year old female with a new diagnosis of locally advanced lung cancer. She has started first-line systemic therapy and concurrent radiation therapy. Mild cough and fatigue noted, but overall tolerating treatment well. Will start guaifenesin and continue treatment as planned.

Patient message:

I've been experiencing increased shortness of breath and wheezing even with the guaifenesin. Should I adjust my asthma medications?

Type response here:

Hello,

I am concerned about your symptoms and i think you should be seen today to evaluate your breathing and get a scan of your chest.

**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: 71 years

Gender: Female

Cancer diagnosis: Stage II breast cancer

PMH: osteoporosis, osteoarthritis

Prior cancer treatments: lumpectomy, adjuvant radiation therapy (completed 2 weeks ago)

Current cancer treatments: tamoxifen (started 1 week ago)

Current medication list: alendronate, calcium with vitamin D, acetaminophen, ibuprofen

Summary of most recent oncology visit (3 weeks ago): 71 year old female with a history of breast cancer s/p lumpectomy and radiation therapy, now on tamoxifen.

Patient message:

I have a feeling of pressure in my chest which is worse when I walk up the stairs. Is this related to the tamoxifen that I just started? What can I do to manage this pain?

Type response here:

Hello,

It may be related to the tamoxifen but we should get some additional tests as soon as possible because of these symptoms and also discuss this with your cardiologist if you have one.

**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: 66 years

Gender: Male

Cancer diagnosis: Stage IV prostate adenocarcinoma

PMH: benign prostatic hyperplasia (BPH), hypertension

Prior cancer treatments: hormone therapy and radiation therapy (completed 7 months ago)

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

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

Summary of most recent oncology visit (4 weeks ago): 66 year old male with a history of prostate cancer s/p hormone therapy and radiation therapy, now with metastatic disease involving the bones and lymph nodes. He has started first-line chemotherapy and androgen deprivation therapy. Mild fatigue and hot flashes noted today.

Patient message:

I've been experiencing episodes of burning pain shooting down my left arm for the past two weeks. Is this a common side effect of the treatment? Can I take anything to make it better?

Type response here:

Hello,

This is not a common side effect of your treatment. There are multiple potential causes for the type of pain that you are describing so I would like to see you in the office and see if we need to order additional tests such as imaging to evaluate this.

**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 IIB breast ductal carcinoma

PMH: Hypertension, osteoporosis

Prior cancer treatments: Lumpectomy followed by adjuvant chemotherapy with doxorubicin and cyclophosphamide and radiation (completed 8 months ago)

Current cancer treatments: None

Current medication list: Amlodipine, alendronate, oxycodone, ibuprofen

Summary of most recent oncology visit (4 months ago): 63-year-old female with a history of Stage IIB breast cancer presents for routine follow-up visit. Patient is clinically without evidence of recurrence. Mammogram scheduled in 8 months.

Patient message:

I have noticed some swelling and tenderness in my breasts. Could this be a sign of cancer recurrence?

Type response here:

Hello,

I would like to see you in the office for an exam so that we can evaluate this. There are other potential reasons aside from a cancer recurrence that could be causing this.

**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 colorectal adenocarcinoma

PMH: Hypertension, gastroesophageal reflux disease (GERD)

Prior cancer treatments: Surgery followed by adjuvant chemotherapy with oxaliplatin and fluorouracil (completed 6 months ago)

Current cancer treatments: None

Current medication list: Losartan, omeprazole, simvastatin

Summary of most recent oncology visit (4 months ago): 59-year-old female with a history of Stage IIA colorectal cancer s/p surgery and adjuvant chemotherapy presents for follow-up. Patient is clinically without evidence of recurrence but ongoing bowel issues with very frequent stools. Will trial bulking agents.

Patient message:

I have been experiencing severe abdominal pain and I am very bloated. Do I need to go to the emergency room?

Type response here:

Hello,

Yes, I think it would be best for you to go to the emergency room today to have this evaluated.

**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: Male

Cancer diagnosis: Stage IIIC melanoma

PMH: None

Prior cancer treatments: Wide excision surgery followed by adjuvant immunotherapy with pembrolizumab (completed 7 months ago)

Current cancer treatments: None

Current medication list: None

Summary of most recent oncology visit (2 months ago): 48-year-old male with a history of Stage IIIC melanoma s/p surgery and pembrolizumab immunotherapy presents for follow-up. Patient is clinically and radiographically without evidence of disease recurrence. He will be seen again in 3 months.

Patient message:

For the past 3 weeks or so, I have been having palpitations and my pants feel loose. I don’t usually have palpitations. Is this something I should be concerned about?

Type response here:

Hello,

I think that because of these symptoms we should get some additional tests and have you come into the office soon for an appointment.

**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:

Hello,

It is possible that this is a side effect of your treatment but I think it would be best for us to get some additional tests and have you come into the office for an appointment.

**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 IV renal cell carcinoma

PMH: Hypertension, diabetes

Prior cancer treatments: Nephrectomy followed by sunitinib (completed 6 months ago)

Current cancer treatments: None

Current medication list: Lisinopril, metformin, atorvastatin

Summary of most recent oncology visit (3 months ago): 70-year-old male with a history of Stage IV renal cancer s/p surgery and sunitinib presents for follow-up. Patient shows no evidence of disease.

Patient message:

I've been experiencing pain in my lower back and sides. Could this be a sign of my kidney cancer coming back?

Type response here:

Hello,

There are multiple potential causes for back pain which could be related to cancer or the treatment you have been receiving but more commonly are unrelated. I would like you to come in for a visit so we can assess this and determine if further tests such as imaging would be helpful.

**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 IA endometrial adenocarcinoma

PMH: Hypertension, osteoporosis

Prior cancer treatments: Total hysterectomy followed by vaginal cylinder brachytherapy (completed 10 months ago)

Current cancer treatments: None

Current medication list: Amlodipine, alendronate, aspirin

Summary of most recent oncology visit (6 weeks ago): 65-year-old female with a history of Stage IA endometrial cancer s/p surgery and brachytherapy presents for follow-up. Patient is clinically without evidence of recurrence; physical exam showed expected post-treatment changes.

Patient message:

I have been experiencing vaginal spotting. Is this normal?

Type response here:

This is a common side effect following the treatment that you have received but I would like you to come in for an examination so that we can evaluate this.

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

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

**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:

Hello,

I would like you to come in so that we can evaluate the scar and determine if further testing such as a biopsy is needed.

**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 II lung adenocarcinoma

PMH: None

Prior cancer treatments: Lobectomy followed by adjuvant chemotherapy with cisplatin and pemetrexed (completed 6 months ago)

Current cancer treatments: None

Current medication list: None

Summary of most recent oncology visit (3 months ago): 52-year-old female with a history of Stage II lung cancer s/p surgery and chemotherapy presents for routine follow-up. No evidence of disease recurrence observed.

Patient message:

I've been having a fever, cough, and shortness of breath. Should I come in to see a doctor?

Type response here:

Yes, I think you should come in today to be evaluated, it is possible that you have an infection and further testing may be needed.

**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: Male

Cancer diagnosis: Stage IV prostate cancer

PMH: Hypertension, diabetes, osteoarthritis

Prior cancer treatments: intermittent androgen deprivation therapy (last 4 months ago)

Current cancer treatments: None

Current medication list: Amlodipine, metformin, insulin, aspirin

Summary of most recent oncology visit (2 months ago): 67-year-old male with a history of Stage IV prostate cancer on intermittent androgen deprivation therapy. Will continue to monitor PSA and will re-image in 2 months.

Patient message:

I've been experiencing worsening left hip pain. Should I be concerned that my cancer is worsening?

Type response here:

I would like for you to come in to be evaluated. We may want to do tests including a PSA and imaging to determine if this is cancer related or not.

**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: Male

Cancer diagnosis: favorable intermediate risk prostate cancer

PMH: benign prostatic hyperplasia, type 2 diabetes

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

Current cancer treatments: None

Current medication list: tamsulosin, metformin, aspirin

Summary of most recent oncology visit (3 months ago): 58-year-old male with a history of favorable intermediate risk prostate cancer s/p radical prostatectomy presents for follow-up 1 year post-treatment. He is clinically and radiographically without evidence of recurrence. Will continue ongoing surveillance.

Patient message:

I've been experiencing frequent urination and discomfort during urination for the past few days. Is this something I should be worried about? Should I schedule an appointment to discuss my symptoms?

Type response here:

Yes, please schedule an appointment so that we can discuss this. We will also have you do a urine test to see if you have a urinary tract infection.

**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 endometrial cancer

PMH: hypertension, osteoporosis

Prior cancer treatments: hysterectomy and radiation therapy (completed 18 months ago)

Current cancer treatments: None

Current medication list: lisinopril, alendronate, calcium, vitamin D

Summary of most recent oncology visit (4 months ago): 63-year-old female with a history of Stage II endometrial cancer s/p hysterectomy and radiation therapy presents for follow-up 18 months post-treatment. She is clinically and radiographically without evidence of recurrence. Will continue ongoing surveillance.

Patient message:

I've been experiencing lower back pain and some vaginal bleeding for the past week. I'm concerned that my cancer might be coming back. Should I schedule an appointment to discuss my symptoms?

Type response here:

Yes, please schedule an appointment so that we can discuss this and we will order scans to help determine the cause of this.

**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 IIIA bladder cancer

PMH: coronary artery disease, chronic kidney disease

Prior cancer treatments: transurethral resection of bladder tumor, neoadjuvant chemotherapy, and cystectomy(completed 9 months ago)

Current cancer treatments: None

Current medication list: aspirin, atorvastatin, metoprolol, furosemide

Summary of most recent oncology visit (2 months ago): 70-year-old male with a history of Stage IIIA bladder cancer s/p transurethral resection , neoadjuvant chemotherapy, and radical cystectomy presents for follow-up 9 months post-treatment. He is clinically and radiographically without evidence of recurrence. Will continue ongoing surveillance.

Patient message:

I've been experiencing increased urinary frequency and urgency for the past few days. I'm worried that my cancer might be coming back. Should I schedule an appointment to discuss my symptoms?

Type response here:

Yes, please schedule an appointment so that we can discuss this and we will order a urine test to determine if you have a urinary tract infection.

**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: 54 years

Gender: Male

Cancer diagnosis: Stage IIIA colon cancer

PMH: hypertension, hyperlipidemia

Prior cancer treatments: surgery and adjuvant chemotherapy (completed 9 months ago)

Current cancer treatments: None

Current medication list: lisinopril, atorvastatin, aspirin

Summary of most recent oncology visit (2 months ago): 54-year-old male with a history of Stage IIIA colon cancer s/p surgery and adjuvant chemotherapy presents for follow-up 9 months post-treatment. He is clinically and radiographically without evidence of recurrence. Will continue ongoing surveillance.

Patient message:

I've been experiencing changes in my bowel habits and rectal bleeding for the past week. I'm worried that my cancer might be coming back. Should I schedule an appointment to discuss my symptoms?

Type response here:

Yes, please schedule an appointment soon so that we can discuss this and we may need additional tests such as bloodwork and a colonoscopy to evaluate this.

**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: Female

Cancer diagnosis: Stage IIA cervical cancer

PMH: hypothyroidism, diabetes

Prior cancer treatments: chemoradiotherapy (completed 1 year ago)

Current cancer treatments: None

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

Summary of most recent oncology visit (6 weeks ago): 64-year-old female with a history of Stage IIA cervical cancer s/p definitive cisplatin-based chemoradiation presents for follow-up one year post-treatment. She is clinically and radiographically without evidence of recurrence. Will continue ongoing surveillance.

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:

Yes, if the pain is not improving and not responding to ibuprofen, please come in to be seen today so that we can help you manage this. In the meantime, you can take tylenol in addition to the ibuprofen.

**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 |  |