Supplementary Information - Learning a Health Knowledge Graph from Electronic Medical Records

Maya Rotmensch¹; Yoni Halpern, PhD²; Abdulhakim Tlimat, MD³; Steven Horng, MD MMSc³; David Sontag, PhD^{4†}

- ¹ Center for Data Science, New York University, New York, NY. USA
- ² Department of Computer Science, New York University, New York, NY. USA
- ³ Department of Emergency Medicine, Beth Israel Deaconess Medical Center, Boston, MA. USA
- ⁴ Department of Electrical Engineering and Computer Science, Massachusetts Institute of Technology, Cambridge, MA. USA

Appendix 1: Methodology Details

Model Assumptions

Below we review some of the main assumptions that have biased our models and shaped their performance.

The defining assumption for naïve Bayes is of course its assumption of conditional independence between child nodes given the observation of the parent node. In our context this translates to symptoms being conditionally independent from one another given the parent disease. This is an over simplification, as is it possible that for a given disease, the appearance of one symptom makes another symptom more likely. For instance, for the disease Bronchitis, both congestion and headache are common symptoms. While both do not always occur when the disease is present, the presence of congestion raises the likelihood of a headache.

While Logistic Regression does not assume conditional independence between symptoms, it does rely on limited multicollinearity to perform well. Feature selection and regularization are common ways of limiting the performance issues associated with multi multicollinearity. In our paper we have opted to perform an extensive grid search of the proper regularization parameter to mitigate this problem. However, as we describe in the section below, optimizing a criteria focused on predicting disease from symptoms may be mismatched to the goal of learning a good health knowledge graph.

Additionally, for naïve Bayes and logistic regression each disease is modeled separately, resulting in an assumption of independence between diseases. One of the main advantages of the application of the noisy OR model in this setting is that it does not make any assumptions about the prior distribution of diseases $P(y_1, ..., y_n)$. This assumption is extremely important for our application, where many patients present with more than one disease (see Figure 3).

A central assumption made by the noisy OR model is the assumption of independence of effects. This assumption is an oversimplification, as the presentation of symptoms in a co-morbid scenario could very different than the presentation each disease produces separately. Nonetheless, a recent paper by Anand and Downs, which reviews the implication of this assumption on model performance, found that a model constructed with the noisy OR assumption "performs comparably" to a Bayesian network where no restriction were placed on the conditional probability distribution. The authors go on to claim that, at least for the setting that they consider, the minor differences that do exist between the two are "unlikely to be clinically important".¹

Modeling Details

A threshold of at least 5 co-occurrences between disease and symptom pairs was chosen as a denoising measure for naïve Bayes and Logistic Regression, in order to allow us to compute the necessary statistic with some confidence. We chose a small number so as to not unfairly bias against rare diseases. While we did not do an exhaustive grid search, we experimented with several co-occurrence thresholds (0,2,5,10) and chose the smallest value that performed well on the automatic evaluation

Evaluation by physicians

Given the resource intensive nature of the physician evaluation, we use a procedure in which the top N results from each model are pooled together and rated by clinical evaluators. For a given disease, the top two models from the automated evaluation, as well as the industry-provided graph, contributed to the pool of edges to be evaluated by the physicians. Each model suggests up to K+10 symptoms, where K is the number of symptoms present in the knowledge graph for that disease. The 10 additional symptoms are introduced to allow for the possibility of the true graph being denser than the Google health knowledge graph. The figure below shows the user-interface though which the physicians tagged edges.

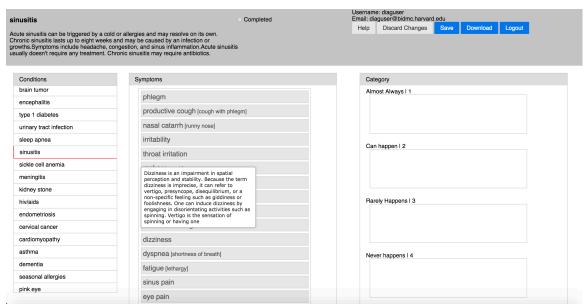


Figure 1: user interface for evaluation by physicians. The left column shows the list of diseases from which clinicians select a disease to be tagged. When a disease is selected, the upper panel provides a more detailed description of the selected disease. The middle column shows the symptoms that have yet to be tagged, and hover over functionality provides a detailed symptom definition. Lastly, the rightmost column shows the 4 categories into which symptoms can be sorted.

Statistical Significance

The Wilcoxon signed ranked test was used to determine the statistical significance of the differences in precision as it is non paramedic and does not assume the population is normally distributed. In the test, each pair of points represent the precision for a given condition by models a and b, where a and b represent our two best performing models. For both the automatic and clinical frameworks, model precision was calculated for the top K+10 symptoms suggested by each model.

GHKG's Precision-Recall

In the clinical evaluation we compare our resulting graphs against expert physician opinion using a precision-recall curve. We evaluate the Google knowledge health graph alongside our own models as a way to provide a realistic benchmark for performance. The GKHG does not contain continuous edge weights that are directly comparable to our generated importance measures. However, each edge in the graph is tagged with a frequency measure of 'frequent' or 'always' to indicate how often the symptom appears given the presence of the disease. To evaluate the GHKG against our model, we used the frequency tags as a measure of confidence in the existence of an edge. The star on the left represents the GHKG's performance for the 'high confidence' setting and includes only edges that were marked as 'always' in the graph. The star on the right represents the graph's performance in the setting in which it was allowed to suggest all edges that were deemed relevant, regardless of whether they occurred 'always' or 'frequently'.

A causal explanation for model performance

In reasoning broadly about the differences in model performance, we recall that the knowledge graph is, in its essence, a causal graph describing how diseases cause symptoms. In what follows we give a formal framework for characterizing what might make a good knowledge graph, and demonstrate that our results are consistent with what one would expect under this framework.

The casual query that we conjecture defines a good knowledge graph can be formalized via Pearl's 'do' operator ² in which we intervene and set a disease to be either on or off, and see how this affects the likelihood of a symptom:

$$IMPT_{causal} = \frac{P(x_i = 1 | do(y_j = 1))}{P(x_i = 1 | do(y_i = 0))}$$
 (5)

In other words, we believe that the weight of an edge i, j in the true graph is closely tied to the likelihood ratio of the symptom x_i manifesting, given that we *intervene* to set a disease y_j to be either on or off. By formulating the importance measure using Pearl's docalculus, we are able to disentangle correlations between a disease and a symptom that occur simply because the disease frequently occurs with other diseases that cause the symptom.

This target quantity (Equation 5) is not aligned with the objective optimized by logistic regression, which explicitly models $P(y_j|X)$. This misalignment may explain logistic regression's consistently poor performance.

Naive Bayes, which consistently performs better than logistic regression and worse than noisy OR, uses the logarithm of the formula shown in Equation 5 as its importance measure, but assumes that the interventional distribution $P(x_i = 1 \mid do(y_j))$ is equal to the conditional distribution $P(x_i \mid y_j)$. However, one can show that these two are equal only if the parent diseases are marginally independent. To the extent that diseases are not independent, the estimate of the edge strengths provided by naive Bayes will be biased.

In contrast, the measure of edge importance used by noisy OR can be shown to correspond to a causal quantity closely related to the target quantity shown in Equation 5, specifically the do likelihood ratio of the symptom being *off* instead of on:

$$IMPT_{noisy-or_{ij}} = 1 - \frac{P(x_i = 0 | do(y_j = 1))}{P(x_i = 0 | do(y_j = 0))}$$
 (6)

Moreover, the learning method used by noisy OR, which optimizes the conditional likelihood of the observed symptoms given the diseases, makes no assumptions about the prior distribution of the diseases. In conclusion, we believe that this close alignment explains noisy OR's significantly better performance in our evaluations.

Appendix 2: The Constructed Graph

Below is the full graph generated by the noisy or model with a threshold of K+10 edges, where K is the number of edges in the Google health knowledge graph for the corresponding condition. These are precisely the same edges for noisy or rated by the physicians in the clinical evaluation and displayed in Figure 3(b). The graph presented corresponds to a recall of 0.63 and a precision of 0.84.

Knowledge graph (Generated by the noisy or model)	
Diseases	Symptoms
abscess	pain (0.318), fever (0.119), swelling (0.112), redness (0.094), chills (0.092), infection (0.083), cyst (0.047), tenderness (0.037), rectal pain (0.026), lesion (0.025), lump (0.023), sore throat (0.021), facial swelling (0.016), pimple (0.016), discomfort (0.014), difficulty swallowing (0.013), cavity (0.013), night sweats (0.007), severe pain (0.007), abdominal pain (0.007), painful swallowing (0.007), back pain (0.006)
acid reflux	pain (0.225), nausea (0.140), pain in upper abdomen (0.064), abdominal pain (0.058), sadness (0.052), depression (0.052), vomiting (0.048), anxiety (0.045), diarrhea (0.044), discomfort (0.034), indigestion (0.030), chills (0.022), constipation (0.021), dizziness (0.021), heartburn (0.020), chest pressure (0.017), coughing (0.015), difficulty swallowing (0.014), tenderness (0.014), lightheadedness (0.013), shortness of breath (0.012), belching (0.012), racing heartbeat (0.011), chest discomfort (0.011), burning sensation (0.011), discomfort in upper abdomen (0.010), chest tightness (0.009), fatigue (0.009), cramping (0.009), lethargy (0.008), headache (0.006), sharp pain (0.006), lump (0.005), dry cough (0.005), abdominal discomfort (0.005), malnutrition (0.005), weight loss (0.005), bone loss (0.004)
acute renal failure	kidney failure (0.127), weakness (0.087), diarrhea (0.062), lethargy (0.058), low blood pressure (0.053), dehydration (0.048), vomiting (0.044), nausea (0.041), fatigue (0.033), confusion (0.029), mental confusion (0.022), dizziness (0.021), malaise (0.014), weight loss (0.012), urinary retention (0.010), shortness of breath (0.009), blood in urine (0.009)
alcohol intoxication	slurred speech (0.071), vomiting (0.064), unsteady gait (0.056), depression (0.034), sadness (0.034), confusion (0.029), falling (0.025), thoughts of suicide (0.019), wandering and getting lost (0.018), agitation (0.017), crying (0.015), screaming (0.015), seizures (0.013), fainting (0.013), bruising (0.010), substance abuse (0.007), tremor (0.005), rapid involuntary eye movement (0.005), difficulty walking (0.005), snoring (0.005), fast heart rate (0.004), problems with coordination (0.004), leaking of urine (0.002), hunger (0.002), low oxygen in the body (0.002), aggression (0.002)
	seizures (0.125), depression (0.090), sadness (0.090), slurred speech (0.061), anxiety (0.048), unsteady gait (0.030), fast heart rate (0.028), tremor (0.027), thoughts of suicide (0.023), agitation (0.016), substance abuse (0.015), confusion (0.012), visual hallucinations (0.012), shakiness (0.011), falling (0.009), vomiting (0.008), headache (0.008), screaming (0.007), vomiting blood (0.006), hearing voices (0.005), rapid involuntary eye movement (0.004), delirium (0.004),
alcoholism	sweating (0.004), leg pain (0.004), wandering and getting lost (0.004), mental confusion (0.004) confusion (0.071), mental confusion (0.057), fainting (0.028), lethargy (0.026), weakness (0.025), agitation (0.025), bruising (0.018), depression (0.014), sadness (0.014), leaking of urine (0.014), falling (0.013), seizures (0.010), hip pain (0.010), unsteady gait (0.009), aggression (0.007), sleepiness (0.007), leg pain (0.007), wandering and getting lost (0.007), failure to thrive (0.006), drooping of upper eyelid (0.006), memory loss (0.006), slow heart rate (0.006), malnutrition (0.005), coughing (0.005), weight loss (0.005), low blood pressure (0.005), abnormality walking
alzheimer's disease	(0.005)

	swelling (0.154), shortness of breath (0.099), itching (0.084), wheezing (0.082), redness (0.076),
	skin rash (0.072), facial swelling (0.053), tongue swelling (0.048), difficulty breathing (0.044),
	swelling under the skin (0.044), difficulty swallowing (0.044), anxiety (0.036), noisy breathing
	(0.032), chest tightness (0.029), diarrhea (0.029), fainting (0.024), nausea (0.024), fast heart rate
	(0.020), seizures (0.020), difficulty speaking (0.016), abdominal pain (0.014), flushing (0.014),
	crying (0.014), respiratory distress (0.013), hoarseness (0.013), itchy eyes (0.013), low blood
	pressure (0.013), acute episodes (0.012), infection (0.011), fatigue (0.010), dry mouth (0.010), chest
	discomfort (0.010), flank pain (0.009), joint pain (0.008), malnutrition (0.008), impaired voice
anaphylaxis	(0.008)
	lethargy (0.096), weakness (0.087), fatigue (0.086), shortness of breath (0.052), dizziness (0.047),
	bleeding (0.046), lightheadedness (0.027), malnutrition (0.025), nausea (0.024), sadness (0.024),
	diarrhea (0.024), depression (0.024), fainting (0.020), low blood pressure (0.020), constipation
	(0.019), infection (0.017), abdominal pain (0.014), kidney failure (0.014), dehydration (0.013),
anemia	vaginal bleeding (0.011), dark stool from digested blood (0.010), racing heartbeat (0.010)
W1101111W	headache (0.128), dizziness (0.047), pain (0.047), nausea (0.046), weakness (0.037), back pain
	(0.028), neck pain (0.020), vertigo (0.018), fainting (0.016), numbness (0.015), blurred vision
	(0.014), lightheadedness (0.014), severe headache (0.013), seizures (0.011), ache (0.011), drooping
aneurysm	of upper eyelid (0.009)
	pain (0.352), shortness of breath (0.154), chest pressure (0.077), nausea (0.075), coughing (0.060),
	chest discomfort (0.041), racing heartbeat (0.039), chest tightness (0.035), dizziness (0.031),
	anxiety (0.029), lightheadedness (0.022), headache (0.021), discomfort (0.021), back pain (0.020),
	arm pain (0.020), cough with phlegm (0.015), numbness (0.014), chest pain worsened by breathing
	(0.014), fatigue (0.013), depression (0.012), fast heart rate (0.012), sadness (0.012), sharp pain
	(0.012), pain in upper abdomen (0.012), lethargy (0.011), indigestion (0.010), fainting (0.010),
angina	chills (0.009)
w8w	problems with coordination (0.318), weakness (0.181), confusion (0.106), mental confusion
	(0.088), slurred speech (0.074), numbness (0.071), headache (0.049), seizures (0.045), weakness of
	one side of the body (0.042), difficulty speaking (0.034), blurred vision (0.018), malnutrition
1	
aphasia	(0.017)
	pain (0.881), nausea (0.401), abdominal pain (0.361), tenderness (0.163), chills (0.152), diarrhea
	(0.124), vomiting (0.118), fever (0.096), loss of appetite (0.068), lower abdominal pain (0.040),
	cramping (0.037), constipation (0.036), discomfort (0.033), cyst (0.030), pain in right lower
	abdomen (0.029), sharp pain (0.023), pain during urination (0.022), pain in upper abdomen (0.020),
	pelvic pain (0.017), flank pain (0.016), vaginal discharge (0.013), abdominal discomfort (0.013),
appendicitis	dull pain (0.012), infection (0.011)
	slow heart rate (0.176), racing heartbeat (0.154), fainting (0.113), fast heart rate (0.112), dizziness
	(0.089), lightheadedness (0.068), shortness of breath (0.045), low blood pressure (0.035), weakness
	(0.035), lethargy (0.032), chest pressure (0.027), fatigue (0.026), chest discomfort (0.012), chest
arrhythmia	tightness (0.012), feeling tired (0.007), dehydration (0.007)
urriny umma	pain (0.406), knee pain (0.098), swelling (0.092), hip pain (0.041), shoulder pain (0.037), back pain
	(0.030), leg pain (0.029), neck pain (0.024), infection (0.022), tenderness (0.022), redness (0.019),
	joint pain (0.018), arm pain (0.017), foot pain (0.012), discomfort (0.012), weakness (0.011),
	depression (0.011), sadness (0.011), hand pain (0.010), acute episodes (0.008), chronic back pain
	(0.008), wrist pain (0.008), numbness (0.007), severe pain (0.007), diarrhea (0.007), stiffness
	(0.006), difficulty walking (0.006), sharp pain (0.006), cyst (0.006), swollen joint (0.006), ankle
arthritis	pain (0.006), elbow pain (0.005)
	coughing (0.242), wheezing (0.173), shortness of breath (0.134), cough with phlegm (0.076), chest
	tightness (0.060), chills (0.046), acute episodes (0.044), fever (0.039), dry cough (0.032), anxiety
	(0.022), depression (0.021), sadness (0.021), sore throat (0.020), difficulty breathing (0.019), nasal
	congestion (0.014), headache (0.010), fast heart rate (0.009), phlegm (0.009), chest discomfort
	(0.008), chest pressure (0.008), runny nose (0.007), fatigue (0.007), back pain (0.006), fast
acthme	
asthma	breathing (0.005), malaise (0.005), racing heartbeat (0.005), lethargy (0.005)
	skin rash (0.232), itching (0.103), redness (0.061), anxiety (0.041), infection (0.038), dry skin
	(0.034), lesion (0.034), swelling (0.033), chills (0.022), acute episodes (0.021), sadness (0.018),
atopic dermatitis	depression (0.018), insomnia (0.018), coughing (0.016), headache (0.016)

racing heartheat (0.066), weakness (0.042), fast heart rate (0.035), shortness of breath (0.034), dizzinces (0.028), low bodo pressure (0.013), faitague (0.013), confusion (0.011), mental confusion (0.010), slow heart rate (0.010), coughing (0.008), chest discomfort (0.008), bruising (0.008), beart rate (0.010), coughing (0.008), chest discomfort (0.008), bruising (0.008), skin rash (0.329), siching (0.173), anxiety (0.048), infection (0.029), sadness (0.026), depression (0.026), red spots (0.018), skin irritation (0.018), sweating (0.016), eye pain (0.015), tesion (0.012), substance abuse (0.011), hallucination (0.009), swollen feet (0.099), skin lession (0.009), brief visual or sensory abmorablisty (0.009) anumbress (0.038), weakness (0.198), headache (0.134), facial paralysis (0.071), ear pain (0.052), slurred speech (0.051), paralysis (0.046), facial pain (0.040), neck pain (0.038), facial swelling (0.037), tongue numbress (0.018), ammunetry (0.026), burner dy sison (0.024), drooping of upper eyelid (0.020), lesion (0.019), malnutrition (0.019), difficulty swallowing (0.018), double vision (0.018), sisone (0.031), syring (0.030), racing thoughts (0.030), confusion (0.026), agrintion (0.026), manic episcode (0.033), crying (0.030), racing thoughts (0.030), confusion (0.026), stranging (0.026), insommin (0.025), hearing voices (0.023), paranoia (0.023), substance abuse (0.018), falling (0.015), mental confusion (0.014), lethargy (0.014), visual hallucinations (0.012), wandering and getting fost (0.011), seizures (0.010), chronic back pain (0.014), usual pathucinations (0.012), wandering and getting fost (0.011), seizures (0.010), chronic back pain (0.014), usual pathucinations (0.012), wandering and getting fost (0.011), seizures (0.010), humbres (0.016), delirem (0.005), humbres (0.009), musteady gait (0.	1	1
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(0.014), rib pain (0.012), headache (0.011), coughing up blood (0.011), low oxygen in the body		(0.019), persistent cough (0.019), chest pain worsened by breathing (0.014), chest discomfort
	bronchitis	

pain (0.119), redness (0.091), blister (0.063), skin rash (0.028), indigestion (0.028), (0.023), heartburn (0.023), depression (0.015), sadness (0.015), itching (0.013), bur (0.011), swelling (0.010), discomfort (0.008), severe pain (0.008), ice pack (0.008) urination (0.008), peeling skin (0.008), heat therapy (0.007), pain in upper abdoment seizures (0.019), fainting (0.015), low blood pressure (0.013), depression (0.011), shruising (0.011), thoughts of suicide (0.010), slow heart rate (0.010), crying (0.009) temperature (0.008), agitation (0.008), anxiety (0.008), respiratory distress (0.006), (0.005), shivering (0.004), slurred speech (0.004), fluid in the lungs (0.004) shortness of breath (0.064), coughing (0.045), fast heart rate (0.040), chest pressure heartbeat (0.028), low blood pressure (0.027), fainting (0.026), lightheadedness (0.006) for breath while lying down (0.021), regurgitation (0.020), dizziness (0.014), weight lethargy (0.013), fatigue (0.011), dry cough (0.009), anxiety (0.008), cavity (0.008) lungs (0.007), chest discomfort (0.007), weakness (0.006), cough with phlegm (0.0060), swelling (0.054), hand numbness (0.041), redness (0.030), pins and needle shoulder pain (0.024), vertigo (0.020), hand swelling (0.016), neck pain (0.016), in depression (0.011), sadness (0.011), anxiety (0.011), chronic back pain (0.010), back malnutrition (0.010), severe pain (0.008), unsteadiness (0.008), dry skin (0.008)	rning sensation b, pain during n (0.006) sadness (0.011), b), low body screaming e (0.028), racing 021), shortness tt gain (0.013), b), fluid in the 006) 071), wrist pain es (0.024),
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shoulder pain (0.024), vertigo (0.020), hand swelling (0.016), neck pain (0.016), in carpal tunnel depression (0.011), sadness (0.011), anxiety (0.011), chronic back pain (0.010), back	
carpal tunnel depression (0.011), sadness (0.011), anxiety (0.011), chronic back pain (0.010), back	faction (0.014)
Syndronic Intalliguation (0.010), Severe Dain (0.000), unsteadiness (0.000), ut v skin to 0.001	.k pain (0.010),
depression (0.043), sadness (0.042), eye pain (0.035), weakness (0.031), blurred vis	sion (0.020)
vision loss (0.020), vertigo (0.018), constipation (0.017), fainting (0.017), headache	
cataracts heart rate (0.014), dizziness (0.013), leaking of urine (0.012), difficulty swallowing	
pain (0.458), nausea (0.232), diarrhea (0.195), abdominal pain (0.194), vomiting (0.195)	
(0.045), pain in upper abdomen (0.041), weight loss (0.040), dizziness (0.033), fati	
lethargy (0.031), dehydration (0.030), chills (0.030), watery diarrhea (0.026), const	
weakness (0.024), infection (0.022), lightheadedness (0.020), back pain (0.020), los	• ' ' '
(0.019), sharp pain (0.018), tenderness (0.014), yellow skin and eyes (0.013), maln	
upper abdominal pain (0.012), flushing (0.012), blood in stool (0.012), lower abdor	
celiac disease (0.012), abdominal discomfort (0.012)	iiiiai puiii
redness (0.508), swelling (0.404), pain (0.172), infection (0.124), fever (0.074), chi	ills (0 074) skin
rash (0.042) , tenderness (0.039) , leg pain (0.027) , foot pain (0.022) , itching (0.020)	
lesion (0.014), pimple (0.013), hand swelling (0.012), facial swelling (0.011), scab	
cellulitis extremity pain (0.008)	(*****), *** **
pain (0.329), abdominal pain (0.175), nausea (0.129), vomiting (0.078), bleeding (0.078)	0.068) vaginal
bleeding (0.064), chills (0.052), diarrhea (0.046), bleeding from anus (0.045), letha	
anxiety (0.042), low blood pressure (0.039), discomfort (0.033), sadness (0.033), description and the control of the control o	
cervical cancer (0.032), redness (0.028), fatigue (0.027), pelvic pain (0.021), abdominal distension	1
pain (0.557), numbness (0.379), neck pain (0.313), shoulder pain (0.193), weakness	
pain (0.157), back pain (0.084), pins and needles (0.047), tenderness (0.032), hand	
cervical (0.026) , discomfort (0.020) , severe pain (0.020) , radiating pain (0.019) , sharp pain	
radiculopathy depression (0.017), sadness (0.016), anxiety (0.016), chronic back pain (0.015)	(0.017),
skin rash (0.470), itching (0.105), fever (0.087), burning sensation (0.042), headach	he (0.034)
infection (0.034) , lesion (0.032) , chills (0.031) , pain in upper abdomen (0.027) , red	
sore throat (0.027), numbness (0.026), malnutrition (0.026), redness (0.025), nerve	
stinging sensation (0.018), neck swelling (0.018), ear pain (0.015), ache (0.014), na	1 //
chicken pox night sweats (0.012), pins and needles (0.011)	(0.010),
pain (0.385), pain during urination (0.196), nausea (0.152), vaginal discharge (0.14	8), tenderness
(0.130), abdominal pain (0.099), pelvic pain (0.089), cramping (0.078), chills (0.078)	/ /
(0.065), vaginal bleeding (0.057), bleeding (0.054), pain in lower abdomen (0.052)	
(0.050), lower abdominal pain (0.049), vomiting (0.038), fever (0.038), discharge f	
chlamydia (0.034), cyst (0.033), itching (0.032)	1 -
fever (0.268), pain (0.201), nausea (0.190), abdominal pain (0.189), yellow skin an	d eves (0.112).
vomiting (0.099), chills (0.097), weakness (0.064), lethargy (0.057), fluid in the above	
pain in upper abdomen (0.053), dark urine (0.037), shortness of breath (0.030), con	
low blood pressure (0.026), infection (0.026), abdominal distension (0.025), fatigue	
cholangiocarcinoma discomfort (0.021), confusion (0.017)	**

	pain (0.621), abdominal pain (0.245), nausea (0.225), vomiting (0.123), tenderness (0.061), fever
	(0.057), chills (0.056), pain in upper abdomen (0.052), diarrhea (0.051), pain in upper-right
	abdomen (0.026), abdominal cramping from gallstones (0.023), yellow skin and eyes (0.023), constipation (0.017), discomfort (0.015), infection (0.014), upper abdominal pain (0.014), sharp
cholecystitis	pain (0.013), lethargy (0.013), loss of appetite (0.011), pain during urination (0.009)
Choiceystitis	kidney failure (0.041), low blood pressure (0.033), infection (0.030), weakness (0.029), fever
	(0.022), diarrhea (0.020), coughing (0.020), shortness of breath (0.019), vomiting (0.019), lethargy
	(0.015), chills (0.012) , bleeding (0.011) , abdominal pain (0.010) , fatigue (0.009) , low oxygen in the
chronic kidney	body (0.008), cough with phlegm (0.007), malaise (0.007), confusion (0.006), fluid in the lungs
disease	(0.006), redness (0.005), mental confusion (0.005)
	coughing (0.186), shortness of breath (0.112), cough with phlegm (0.071), wheezing (0.066), low
	oxygen in the body (0.026), acute episodes (0.020), lethargy (0.015), fever (0.013), chills (0.013),
	chest tightness (0.012), respiratory distress (0.012), difficulty breathing (0.011), weakness (0.010),
.1	phlegm (0.010), fatigue (0.008), fast breathing (0.008), chronic cough (0.006), anxiety (0.006), low
chronic obstructive pulmonary disease	blood pressure (0.006), dry cough (0.006), fast heart rate (0.006), sadness (0.005), depression (0.005), confusion (0.005), infection (0.005), chest pressure (0.005)
pullionary disease	pain (0.556), back pain (0.114), abdominal pain (0.074), sadness (0.070), depression (0.070),
	chronic back pain (0.058), nausea (0.053), anxiety (0.041), leg pain (0.038), weakness (0.031),
	numbness (0.026), neck pain (0.025), vomiting (0.023), knee pain (0.022), diarrhea (0.021),
	shoulder pain (0.020), hip pain (0.019), constipation (0.019), tenderness (0.018), severe pain
chronic pain	(0.018), crying (0.017), falling (0.016)
	fluid in the abdomen (0.229), abdominal pain (0.097), pain (0.096), nausea (0.072), yellow skin and
	eyes (0.071), swollen veins in the lower esophagus (0.067), confusion (0.055), mental confusion
	(0.049), lethargy (0.045), vomiting (0.044), weakness (0.039), diarrhea (0.037), abdominal
	distension (0.030), vomiting blood (0.030), chills (0.029), fatigue (0.028), bleeding (0.027), dark
	stool from digested blood (0.025), flapping tremor (0.025), shortness of breath (0.022), fever
	(0.020), low blood pressure (0.018), weight gain (0.016), discomfort (0.015), bleeding from anus (0.014), swelling (0.013), infection (0.013), lightheadedness (0.008), abdominal discomfort (0.007),
	bruising (0.007), kidney failure (0.007), coughing (0.007), lesion (0.007), dizziness (0.006), pain in
cirrhosis of the liver	upper abdomen (0.006)
	nausea (0.179), abdominal pain (0.137), vomiting (0.107), pain (0.104), diarrhea (0.076),
	constipation (0.060), bowel obstruction (0.047), weakness (0.043), lethargy (0.038), fatigue (0.030),
	chills (0.029), dehydration (0.028), shortness of breath (0.027), discomfort (0.025), low blood
	pressure (0.022), dizziness (0.022), fast heart rate (0.020), infection (0.019), blood in stool (0.017),
	loss of appetite (0.016), cramping (0.015), back pain (0.012), failure to thrive (0.012), poor appetite
20100 200200	(0.011), sadness (0.010), dark stool from digested blood (0.010), depression (0.010), weight loss
colon cancer	(0.010) chills (0.083), sore throat (0.075), coughing (0.071), fever (0.057), nasal congestion (0.039),
	headache (0.036) , runny nose (0.029) , numbness (0.024) , dry cough (0.019) , nausea (0.018) , fatigue
	(0.014), ear pain (0.013), dizziness (0.012), diarrhea (0.011), malaise (0.011), fainting (0.010),
	lethargy (0.009), lightheadedness (0.008), sneezing (0.008), discomfort (0.008), shivering (0.007),
	stuffy nose (0.007), racing heartbeat (0.006), sinus pressure (0.006), feeling cold (0.005), foot pain
	(0.004), pins and needles (0.004) , sweating (0.004) , phlegm (0.004) , skin rash (0.004) , sensitivity to
	light (0.004), night sweats (0.004), low body temperature (0.004), mild cough (0.003), eye redness
	(0.003), cough with phlegm (0.003) , loss of appetite (0.003) , head congestion (0.003) , leg pain
common cold	(0.003), ache (0.003)
	headache (0.240), nausea (0.176), neck pain (0.118), dizziness (0.112), tenderness (0.082), blurred vision (0.046), confusion (0.045), fainting (0.042), mental confusion (0.040), bruising (0.038),
	falling (0.038), sensitivity to light (0.031), vomiting (0.027), lightheadedness (0.021), amnesia
	(0.019), shoulder pain (0.018), back pain (0.017), numbness (0.016), difficulty concentrating
	(0.015), shoulder pain (0.016), back pain (0.017), humbless (0.016), unifically concentrating (0.015), memory loss (0.014), double vision (0.014), lethargy (0.011), vertigo (0.011), elbow pain
	(0.010), stiffness (0.010), rib pain (0.009), unsteady gait (0.009), fatigue (0.008), persistent
	headache (0.007), knee pain (0.007), ache (0.007), arm pain (0.007), rapid involuntary eye
	movement (0.006), disorientation (0.006), ice pack (0.006), severe headache (0.005), malnutrition
concussion	(0.005), fear of loud sounds (0.004), facial pain (0.004)

	shortness of breath (0.293), swelling (0.097), coughing (0.095), shortness of breath while lying
	down (0.080), weight gain (0.065), fluid in the lungs (0.052), wheezing (0.040), low oxygen in the
	body (0.034), cough with phlegm (0.027), lethargy (0.024), difficulty breathing (0.021), chest
	pressure (0.018), dry cough (0.017), fatigue (0.017), respiratory distress (0.017), chest tightness
	(0.013), fast breathing (0.013), swelling in extremities (0.012), kidney failure (0.011), regurgitation
congestive heart	(0.009), weakness (0.008), phlegm (0.008), low blood pressure (0.008), chest discomfort (0.006),
failure	slow heart rate (0.004), mild cough (0.004), chronic cough (0.004)
	shortness of breath (0.051), regurgitation (0.022), fainting (0.022), low blood pressure (0.021),
	lesion (0.021), chest pressure (0.018), depression (0.016), sadness (0.015), weakness (0.013), back
coronary artery	pain (0.012), malnutrition (0.011), discomfort (0.010), chest discomfort (0.008), leg pain (0.007),
disease	infection (0.007), leg pain during exercise (0.006)
	pain (0.548), abdominal pain (0.292), nausea (0.276), acute episodes (0.245), diarrhea (0.201),
	vomiting (0.133), chills (0.093), fever (0.061), bowel obstruction (0.043), cramping (0.042),
	tenderness (0.038), dehydration (0.027), discomfort (0.025), lower abdominal pain (0.022), blood in
	stool (0.020), infection (0.019), rectal pain (0.016), bleeding from anus (0.015), constipation
	(0.013), lethargy (0.013), fatigue (0.012), pain in upper abdomen (0.011), low blood pressure
	(0.010), pain during urination (0.009), watery diarrhea (0.009), abdominal discomfort (0.009),
	weight loss (0.008), belching (0.008), abdominal tenderness (0.008), abdominal distension (0.007),
crohn's disease	lightheadedness (0.007), sharp pain (0.006), bone loss (0.005)
croiii s discase	pain (0.284), swelling (0.237), leg pain (0.095), calf pain (0.052), shortness of breath (0.037), lower
	extremity pain (0.032), coughing (0.028), fast heart rate (0.024), malnutrition (0.020), weakness
door voin	(0.020), tenderness (0.019), bleeding (0.019), coughing up blood (0.017), discomfort (0.014), arm
deep vein	
thrombosis	pain (0.013), redness (0.011)
	confusion (0.121), mental confusion (0.093), fainting (0.042), agitation (0.038), hip pain (0.026),
	lethargy (0.020), weakness (0.018), delirium (0.018), low blood pressure (0.017), seizures (0.011),
	bruising (0.011), wandering and getting lost (0.011), low oxygen in the body (0.011), depression
	(0.011), sadness (0.010), incontinence (0.010), failure to thrive (0.009), infection (0.009), falling
	(0.009), leaking of urine (0.008), dehydration (0.007), paranoia (0.007), memory loss (0.007),
	screaming (0.006), visual hallucinations (0.005), confusion in the evening hours (0.005), unsteady
	gait (0.004), aggression (0.004), fast breathing (0.004), difficulty swallowing (0.003), malnutrition
dementia	(0.003), slow heart rate (0.003), kidney failure (0.003)
	pain (0.657), abdominal pain (0.271), nausea (0.224), diarrhea (0.152), chills (0.121), fever (0.072),
	vomiting (0.059), constipation (0.057), tenderness (0.051), cramping (0.044), lower abdominal pain
	(0.041), acute episodes (0.026), discomfort (0.026), pain during urination (0.021), loss of appetite
	(0.017), flank pain (0.015), blood in stool (0.014), bowel obstruction (0.014), abdominal discomfort
	(0.012), bleeding from anus (0.012), watery diarrhea (0.010), blood in urine (0.010), pain in upper
	abdomen (0.010), pain in lower abdomen (0.009), severe pain (0.007), abdominal tenderness
diverticulitis	(0.006)
diverticultis	
	pain (0.187), diarrhea (0.116), abdominal pain (0.110), nausea (0.084), bleeding from anus (0.084),
	cramping (0.060), bleeding (0.059), constipation (0.040), vomiting (0.038), lightheadedness
4	(0.034), dizziness (0.026), lower abdominal pain (0.026), discomfort (0.025), blood in stool (0.020),
diverticulosis	dark stool from digested blood (0.020), chills (0.018), lesion (0.017), cyst (0.017)
	sadness (0.186), depression (0.184), anxiety (0.182), nausea (0.083), seizures (0.049), thoughts of
	suicide (0.049), substance abuse (0.038), diarrhea (0.037), vomiting (0.035), panic attack (0.030),
	insomnia (0.027), crying (0.024), agitation (0.024), racing heartbeat (0.021), chills (0.021), fast
	heart rate (0.021), confusion (0.020), severe anxiety (0.014), cramping (0.014), racing thoughts
	(0.013), mental confusion (0.012), restlessness (0.012), visual hallucinations (0.011), hopelessness
	(0.011), paranoia (0.011), hallucination (0.010), muscle pain (0.009), tremor (0.008), sleepiness
	(0.007), hearing voices (0.007), screaming (0.006), leg pain (0.006), discomfort in upper abdomen
	(0.006), guilt (0.006), chronic back pain (0.006), bruising (0.006), falling (0.006), abdominal pain
	(0.006), nightmares (0.005), runny nose (0.005), joint pain (0.005), loss of interest (0.004),
	impulsivity (0.004), lethargy (0.004), slowness in activity and thought (0.004), restless legs
	syndrome (0.004), tembling (0.004), wheezing (0.004), dry skin (0.004), wandering and getting
drug withdrawal	lost (0.004), fear (0.004), nasal congestion (0.003), weight loss (0.003), blotchy rash (0.003)
urug williulawai	1031 (0.007), 10a1 (0.007), 11a3a1 congestion (0.003), weight 1033 (0.003), Dioteny 1a3h (0.003)

	pain (0.537), bleeding (0.204), vaginal bleeding (0.181), abdominal pain (0.167), cramping (0.155),
	spotting (0.154), nausea (0.104), cyst (0.067), tenderness (0.055), lower abdominal pain (0.048),
	pelvic pain (0.040), diarrhea (0.031), vaginal discharge (0.023), discomfort (0.020), vomiting
ectopic pregnancy	(0.016), back pain (0.015), vaginal pain (0.014), lightheadedness (0.011)
	confusion (0.160), mental confusion (0.117), headache (0.112), fever (0.104), seizures (0.080),
	lethargy (0.052), dizziness (0.047), weakness (0.035), fatigue (0.031), stiff neck (0.026), slurred
	speech (0.024), blurred vision (0.022), severe headache (0.021), skin rash (0.020), infection (0.019),
	poor appetite (0.019), delirium (0.019), agitation (0.017), neck pain (0.017), fluid in the abdomen
	(0.016), anxiety (0.015), blood in urine (0.015), low blood pressure (0.015), severe pain (0.014),
	visual hallucinations (0.013), forgetfulness (0.013), high fever (0.012), lesion (0.012), blister
encephalitis	(0.012)
	confusion (0.350), mental confusion (0.257), fluid in the abdomen (0.159), flapping tremor (0.117),
	lethargy (0.075), yellow skin and eyes (0.042), infection (0.040), seizures (0.038), swollen veins in
	the lower esophagus (0.033), depression (0.025), sadness (0.025), unsteady gait (0.021), agitation
	(0.021), fatigue (0.016), tremor (0.015), weakness (0.015), slurred speech (0.014), delirium (0.014),
	abdominal distension (0.011), visual hallucinations (0.011), falling (0.009), kidney failure (0.009),
encephalopathy	incontinence (0.008)
r r J	nausea (0.096), fever (0.069), vaginal bleeding (0.042), vomiting (0.040), bowel obstruction
	(0.033), fatigue (0.029), weight loss (0.028), pain in upper abdomen (0.025), lethargy (0.024),
	constipation (0.023), diarrhea (0.022), abdominal pain (0.020), regurgitation (0.018), abdominal
endometrial cancer	distension (0.018), weakness (0.018), bleeding (0.017)
chaometrar cancer	pain (0.567), nausea (0.287), abdominal pain (0.202), pelvic pain (0.142), vomiting (0.113),
	diarrhea (0.077), cramping (0.076), tenderness (0.070), bleeding (0.057), vaginal bleeding (0.053),
	constipation (0.047), lower abdominal pain (0.046), cyst (0.037), chills (0.034), spotting (0.026),
	vaginal discharge (0.021), flank pain (0.019), severe pain (0.017), pain in lower abdomen (0.016),
	depression (0.016), sadness (0.016), acute episodes (0.014), loss of appetite (0.014), vaginal pain
	(0.012), pain during urination (0.012), discomfort (0.012), lethargy (0.011), bleeding from anus
endometriosis	(0.010), fatigue (0.010)
	testicle pain (0.577), pain (0.567), swelling (0.283), tenderness (0.156), groin pain (0.126), infection
	(0.098), pain during urination (0.082), chills (0.062), blood in urine (0.055), nausea (0.053), redness
	(0.052), discomfort (0.040), lump (0.040), lower abdominal pain (0.030), fever (0.027), cyst
	(0.023), severe pain (0.019), vomiting (0.018), flank pain (0.015), drooping of upper eyelid (0.014),
epididymitis	rectal pain (0.013), pelvic pain (0.011), frequent urge to urinate (0.011)
	seizures (0.604), confusion (0.059), headache (0.053), depression (0.048), sadness (0.048), brief
	visual or sensory abnormality (0.046), mental confusion (0.044), weakness (0.040), anxiety (0.028),
	falling (0.018), incontinence (0.017), lethargy (0.016), dizziness (0.014), fainting (0.013), weakness
	of one side of the body (0.012), leaking of urine (0.012), agitation (0.012), unsteady gait (0.011),
	tremor (0.008), infection (0.008), fast heart rate (0.007), tenderness (0.007), problems with
epilepsy	coordination (0.007), low blood pressure (0.006), sleepiness (0.006)
	nausea (0.138), weakness (0.103), vomiting (0.099), difficulty swallowing (0.072), abdominal pain
	(0.065), lethargy (0.065), fatigue (0.063), dehydration (0.060), coughing (0.049), fast heart rate
	(0.048), shortness of breath (0.045), low blood pressure (0.043), failure to thrive (0.024), vomiting
	blood (0.023), weight loss (0.021), lightheadedness (0.018), diarrhea (0.017), phlegm (0.015),
	constipation (0.014), fever (0.013), back pain (0.012), rib pain (0.012), belching (0.012), malaise
esophageal cancer	(0.011), redness (0.011), dark urine (0.010), yellow skin and eyes (0.008), gagging (0.008)
	pain (0.423), bleeding (0.201), vaginal bleeding (0.181), abdominal pain (0.136), nausea (0.125),
	cramping (0.099), pelvic pain (0.073), tenderness (0.073), heavy or prolonged periods (0.053), cyst
	(0.053), spotting (0.051), lower abdominal pain (0.047), chills (0.045), pain during urination
	(0.034), lightheadedness (0.033), dizziness (0.031), constipation (0.030), fever (0.029), discomfort
fibroids	(0.028), vaginal discharge (0.026)
L	

pain (0.381), depression (0.112), sadness (0.112), nausea (0.106), back pain (0.068), weakness (0.045), chils (0.035), abdominal pain (0.033), headache (0.025), numbress (0.025), ethargy (0.025), chronic back pain (0.022), fatigue (0.020), diarrhea (0.020), acute episodes (0.019), tendemess (0.016), ampain (0.016), infection (0.014), constipation (0.013), neck pain (0.012), flank pain (0.011), incontinence (0.011), discomfort (0.011), shoulder pain (0.010), leg pain (0.010), led pain (0.010), led pain (0.010), led pain (0.010), tende pain (0.010), knee pain (0.010), hip pain (0.009), exvire (0.009), disciple pain (0.008), erying (0.008), vertige (0.007), severe pain (0.007), dehydration (0.007), bruising (0.006), pelvic pain (0.006), sevitive (0.007), severe pain (0.007), dehydration (0.007), bruising (0.006), pelvic pain (0.006), sevitive (0.007), disciple (0.013), oblision (0.013), abdominal pain (0.227), pain in upper abdomen (0.117), vomiting (0.113), chills (0.057), feeder (0.023), flank pain (0.023), upper abdominal pain (0.020), constipation (0.015), discomfort (0.014), dat urine (0.011), loss of appetite (0.010), severe pain (0.009), belching (0.007), discomfort in upper abdomen (0.014), discomfort (0.014), dat urine (0.011), loss of appetite (0.016), severe pain (0.009), belching (0.007), discomfort in upper abdomen (0.014), date urine (0.016), sadness (0.016), vertice (0.007), discomfort in upper abdomen (0.016), sadness (0.016), vertice (0.019), dehydration (0.017), unstriuntent pain (0.016), cyst (0.006). pain (0.420), nausea (0.284), womiting (0.198), abdominal pain (0.184), pain in upper abdomen (0.018), depression (0.021), carpaming (0.211), anxiety (0.019), discomfort in upper abdomen (0.016), sadness (0.018), dathrea (0.030), sagnaging (0.022), depression (0.028), discomfort (0.027), constipation (0.021), chase (0.028), dathrea (0.038), gagging (0.022), depression (0.028), discomfort (0.021), depression (0.016), sadness (0.016), intimiting pain (0.017), londermess (0.019), dehydration (0.019),		
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	hepatitis a	

	weakness (0.017), night sweats (0.014), infection (0.014), itching (0.012)
	abdominal pain (0.051), chills (0.035), lethargy (0.032), back pain (0.027), nausea (0.027), fatigue
hepatitis b	(0.027), weakness (0.024), yellow skin and eyes (0.023), dizziness (0.020), fluid in the abdomen (0.019), depression (0.017), sadness (0.017), discomfort (0.014), infection (0.012), constipation (0.011), cough with phlegm (0.011), lesion (0.010), coughing (0.010), diarrhea (0.010), fever (0.010), vomiting blood (0.010), chronic back pain (0.008)
hamatitis	pain (0.112), depression (0.063), sadness (0.063), abdominal pain (0.047), nausea (0.037), chills (0.033), diarrhea (0.025), anxiety (0.024), infection (0.022), fever (0.021), vomiting (0.020), confusion (0.018), substance abuse (0.017), fluid in the abdomen (0.015), lethargy (0.014), thoughts of suicide (0.013), coughing (0.013), back pain (0.010), fatigue (0.010), yellow skin and eyes
hepatitis c	(0.010), mental confusion (0.009), chronic back pain (0.009) pain (0.157), nausea (0.144), vomiting (0.095), abdominal pain (0.076), depression (0.037), sadness (0.037), constipation (0.035), diarrhea (0.032), pain in upper abdomen (0.028), shortness of breath (0.027), chills (0.026), discomfort (0.024), weakness (0.021), chest pressure (0.018), anxiety (0.017), tenderness (0.016), fainting (0.015), weakness of one side of the body (0.015), back pain
hiatal hernia	(0.015)
high blood pressure	headache (0.052), sadness (0.041), depression (0.041), dizziness (0.032), shortness of breath (0.029), anxiety (0.021), lightheadedness (0.016), fainting (0.014), regurgitation (0.012), weakness (0.011)
iligii biood pressure	
high cholesterol	nausea (0.027), sadness (0.027), weakness (0.027), depression (0.027), dizziness (0.026), fainting (0.019), discomfort (0.018), anxiety (0.018), shortness of breath (0.014), lethargy (0.013)
	coughing (0.080), depression (0.059), sadness (0.059), fever (0.056), cough with phlegm (0.044), chills (0.038), confusion (0.035), infection (0.034), oral thrush (0.033), vomiting (0.032), mental confusion (0.031), shortness of breath (0.029), nausea (0.029), lethargy (0.028), weakness (0.027), lesion (0.023), skin rash (0.022), low blood pressure (0.017), dry cough (0.016), fatigue (0.015), diarrhea (0.015), constipation (0.015), leg pain (0.014), difficulty swallowing (0.013), malaise
hiv/aids	(0.012), abdominal pain (0.011), watery diarrhea (0.011), seizures (0.010), falling (0.009), anxiety (0.009), fast breathing (0.009), kidney failure (0.008)
hives	skin rash (0.334), itching (0.222), swelling (0.166), redness (0.098), facial swelling (0.043), tongue swelling (0.024), shortness of breath (0.020), difficulty swallowing (0.019), wheezing (0.019), raised area of skin (0.016), swelling under the skin (0.016), red rashes (0.016), difficulty breathing (0.015), chest tightness (0.012), sore throat (0.012), hand swelling (0.010), lump (0.008)
hyperthyroidism	racing heartbeat (0.117), fast heart rate (0.075), dizziness (0.070), weight loss (0.055), anxiety (0.046), depression (0.036), sadness (0.036), vomiting (0.031), nausea (0.030), fainting (0.029), shortness of breath (0.024), lethargy (0.023), abdominal pain (0.023), fatigue (0.021), weakness (0.021), sharp pain (0.019), loss of appetite (0.018), low blood pressure (0.018), swelling (0.018), chest tightness (0.017), vertigo (0.016), dehydration (0.015), wheezing (0.014), constipation (0.013), panic attack (0.013), bruising (0.012), headache (0.010), lightheadedness (0.010), infection (0.010)
hypoglycemia	confusion (0.073), fainting (0.053), seizures (0.050), weakness (0.039), mental confusion (0.027), slurred speech (0.022), low blood pressure (0.022), low body temperature (0.019), depression (0.015), sadness (0.015), loss of appetite (0.012), dizziness (0.011), lethargy (0.011), kidney failure (0.009), lightheadedness (0.009), sweating (0.008), unsteady gait (0.007), slow heart rate (0.006), snoring (0.006), dehydration (0.006), weight loss (0.006), anxiety (0.005), sleepiness (0.005), diarrhea (0.004), coma (0.004), poor appetite (0.004), blurred vision (0.004), low oxygen in the body (0.003), feeling cold (0.003), malnutrition (0.003), wandering and getting lost (0.003), thirst (0.003), drooling (0.003)
hyponatremia	weakness (0.107), lethargy (0.064), nausea (0.062), confusion (0.053), dizziness (0.045), mental confusion (0.044), fatigue (0.039), diarrhea (0.038), vomiting (0.036), dehydration (0.034), seizures (0.029), coughing (0.023), low blood pressure (0.019), lightheadedness (0.017), constipation (0.017), anxiety (0.015), loss of appetite (0.014), weight loss (0.014), malaise (0.013), chills (0.012)

1	1 1 (0.010) 1 (0.010) (0.020) 1 (0.020) 1 (0.021) 1 (0.021)
	depression (0.040), sadness (0.040), nausea (0.036), weakness (0.026), anxiety (0.021), dizziness
	(0.021), lethargy (0.019), fainting (0.017), diarrhea (0.015), fatigue (0.014), vomiting (0.012),
	confusion (0.010), mental confusion (0.009), lightheadedness (0.009), malaise (0.009), racing
	heartbeat (0.009), constipation (0.008), seizures (0.007), chills (0.006), vertigo (0.005), discomfort
	(0.005), headache (0.005), dehydration (0.005), chest pressure (0.005), shortness of breath (0.005),
	numbness (0.004), leg pain (0.004), low blood pressure (0.004), bone loss (0.003), weight loss
hypothyroidism	(0.003), slow heart rate (0.003), cough with phlegm (0.003), drooping of upper eyelid (0.003)
	skin rash (0.193), redness (0.181), swelling (0.119), itching (0.103), lesion (0.030), fever (0.018),
insect bites and	chills (0.018), malaise (0.014), night sweats (0.014), sore throat (0.011), red spots (0.010), bruising
stings	(0.010), stuffy nose (0.010), red rashes (0.010), fear (0.010)
<u> </u>	iron deficiency (0.280), depression (0.084), sadness (0.084), bleeding (0.053), lethargy (0.049),
	fatigue (0.043), dizziness (0.039), weakness (0.034), lightheadedness (0.029), anxiety (0.024),
	malnutrition (0.022), difficulty swallowing (0.022), constipation (0.021), weight loss (0.020),
iron deficiency	restless legs syndrome (0.018), low blood pressure (0.016), nausea (0.015), headache (0.015), heavy
•	
anemia	or prolonged periods (0.013), leg pain during exercise (0.011)
	pain (0.283), nausea (0.253), diarrhea (0.250), abdominal pain (0.200), anxiety (0.088), cramping
	(0.074), sadness (0.073), vomiting (0.072), constipation (0.072), depression (0.072), discomfort
	(0.059), lower abdominal pain (0.033), acute episodes (0.032), drooping of upper eyelid (0.029),
	bone loss (0.027), loss of appetite (0.024), rectal pain (0.023), infection (0.023), seizures (0.023),
	dehydration (0.021), dizziness (0.020), crying (0.019), vertigo (0.019), abdominal distension
irritable bowel	(0.018), belching (0.018) , weight loss (0.015) , severe pain (0.015) , tenderness (0.015) , insomnia
syndrome	(0.014)
	flank pain (0.413), pain (0.383), chills (0.287), nausea (0.257), fever (0.217), pain during urination
	(0.186), back pain (0.173), tenderness (0.149), vomiting (0.132), abdominal pain (0.058), blood in
	urine (0.057), infection (0.049), pain in lower abdomen (0.034), discomfort (0.034), diarrhea
	(0.023), fast heart rate (0.014), frequent urge to urinate (0.014), foul smelling urine (0.013),
	dehydration (0.013), fatigue (0.011), lower abdominal pain (0.011), malaise (0.011), headache
	(0.010), abdominal tenderness (0.009), abdominal discomfort (0.009), vaginal discharge (0.009),
kidney infection	muscle pain (0.009), cramping (0.007), lethargy (0.007), leaking of urine (0.006), dark urine (0.006)
Kidney infection	pain (0.608), flank pain (0.495), nausea (0.232), blood in urine (0.141), pain during urination
	(0.084), vomiting (0.083), chills (0.067), abdominal pain (0.065), back pain (0.050), tenderness
	(0.040), discomfort (0.019), groin pain (0.018), severe pain (0.013), fever (0.012), testicle pain
	(0.011), frequent urge to urinate (0.011), lower abdominal pain (0.011), dark urine (0.011), urinary
	retention (0.011), sharp pain (0.010), cyst (0.010), pain in lower abdomen (0.010), diarrhea (0.009),
kidney stone	constipation (0.008), infection (0.007), pelvic pain (0.007), side pain (0.004), dull pain (0.004)
	pain (0.259), nausea (0.128), abdominal pain (0.125), vomiting (0.092), fluid in the abdomen
	(0.077), weakness (0.076) , yellow skin and eyes (0.064) , confusion (0.057) , lethargy (0.056) ,
	shortness of breath (0.047), mental confusion (0.045), diarrhea (0.042), fatigue (0.036), fever
	(0.035), vomiting blood (0.034), tenderness (0.034), pain in upper-right abdomen (0.028),
liver cancer	dehydration (0.028), flank pain (0.027), fast heart rate (0.024)
	pain (0.463), back pain (0.411), numbness (0.075), tenderness (0.056), chronic back pain (0.055),
	weakness (0.053), neck pain (0.028), leg pain (0.025), incontinence (0.024), leaking of urine
	(0.023), flank pain (0.019), hip pain (0.018), discomfort (0.016), pain during urination (0.014),
low back pain	falling (0.013), sharp pain (0.016), severe pain (0.011), difficulty walking (0.010)
10 w oack pain	
	shortness of breath (0.129), coughing (0.108), weakness (0.086), lesion (0.046), lethargy (0.037),
	back pain (0.033), fever (0.032), fatigue (0.026), cough with phlegm (0.023), coughing up blood
	(0.022), nausea (0.022), infection (0.021), constipation (0.020), confusion (0.018), low oxygen in
	the body (0.017), malaise (0.016), lump (0.016), chronic cough (0.015), wheezing (0.015), fast heart
	rate (0.014), mental confusion (0.014), sharp pain (0.011), weight loss (0.010), dehydration (0.010),
lung cancer	difficulty swallowing (0.010), dry cough (0.010), skin rash (0.009), chills (0.009)
	pain (0.173), nausea (0.053), acute episodes (0.049), swelling (0.048), fever (0.037), diarrhea
	(0.034), abdominal pain (0.031), weakness (0.030), shortness of breath (0.030), chills (0.029),
	headache (0.024), joint pain (0.022), coughing (0.021), skin rash (0.021), seizures (0.020), fatigue
	(0.018), tenderness (0.018), cramping (0.015), lethargy (0.015), vomiting (0.014), infection (0.013),
lupus	racing heartbeat (0.012), fast heart rate (0.009), dry cough (0.009), dizziness (0.009), cough with

	phlegm (0.008), flank pain (0.008), face rash (0.006)
	headache (0.163), skin rash (0.163), fever (0.131), lethargy (0.124), weakness (0.112), chills
	(0.108), numbness (0.102), fatigue (0.100), nausea (0.090), pain (0.076), joint pain (0.067), neck pain (0.062), stiffness (0.056), infection (0.054), blurred vision (0.038), malaise (0.037), dizziness
lyme disease	(0.035), redness (0.032), discomfort (0.029), night sweats (0.026)
	depression (0.416), sadness (0.416), anxiety (0.222), thoughts of suicide (0.101), agitation (0.049),
	insomnia (0.035), weight loss (0.032), inability to feel pleasure (0.031), seizures (0.026), fast heart
	rate (0.026), poor appetite (0.024), hopelessness (0.024), loss of appetite (0.022), visual hallucinations (0.020), discomfort (0.020), tremor (0.019), racing thoughts (0.019), chronic back
	pain (0.016), loss of interest (0.016), hearing voices (0.016), crying (0.014), lightheadedness
	(0.013), constipation (0.012), delirium (0.012), substance abuse (0.011), pain during urination
	(0.009), falling (0.008), pain when coughing (0.008), guilt (0.008), pain worse at rest (0.008),
major depression	difficulty concentrating (0.008), headache (0.008)
	weakness (0.113), confusion (0.068), mental confusion (0.055), lesion (0.053), nausea (0.045), lethargy (0.044), vomiting (0.034), fatigue (0.030), seizures (0.029), back pain (0.024), shortness of
melanoma	breath (0.018), numbness (0.016), dizziness (0.014)
	headache (0.450), fever (0.340), neck pain (0.205), nausea (0.157), stiffness (0.155), sensitivity to
	light (0.142), chills (0.134), stiff neck (0.063), back pain (0.057), vomiting (0.055), lethargy
	(0.046), infection (0.045), skin rash (0.043), confusion (0.041), weakness (0.037), coughing (0.035), severe headache (0.034), pain (0.034), seizures (0.033), sore throat (0.030), fatigue (0.029),
	malaise (0.023), dizziness (0.017), mental confusion (0.017), fear of loud sounds (0.014), diarrhea
meningitis	(0.013), night sweats (0.011), dry cough (0.011), ache (0.010), muscle pain (0.010)
	ear pain (0.694), inflammation of ear (0.158), sore throat (0.118), coughing (0.096), fever (0.069),
	nasal congestion (0.055), pain (0.053), ache (0.050), chills (0.049), headache (0.035), infection
	(0.029), redness (0.029), dizziness (0.020), leaked fluid out of blood vessels or an organ (0.017), cough with phlegm (0.015), runny nose (0.015), sinus pressure (0.014), sinus pain (0.014), ringing
middle ear infection	in the ears (0.008), discomfort (0.008)
	headache (0.384), nausea (0.316), sensitivity to light (0.223), pain (0.217), vomiting (0.110),
	numbness (0.067), dizziness (0.062), fear of loud sounds (0.038), anxiety (0.037), neck pain
	(0.037), weakness (0.037), blurred vision (0.033), brief visual or sensory abnormality (0.028), depression (0.026), sadness (0.026), vertigo (0.021), chills (0.019), severe headache (0.018),
	seizures (0.017), lightheadedness (0.017), stiffness (0.013), double vision (0.013), hand numbness
	(0.008), eye pain (0.007), mental confusion (0.007), vision loss (0.006), throbbing headache
	(0.006), ache (0.006), crying (0.006), sharp pain (0.006), slurred speech (0.005), confusion (0.005),
	diarrhea (0.005), facial pain (0.005), sensitivity to sound (0.004), insomnia (0.004), severe pain (0.004), dehydration (0.004), partial loss of vision (0.004), stiff neck (0.004), difficulty speaking
migraine	(0.004), denydration (0.004), partial loss of vision (0.004), stiff neck (0.004), difficulty speaking (0.003), persistent headache (0.003)
	bleeding (0.471), vaginal bleeding (0.431), cramping (0.421), spotting (0.202), pain (0.149),
	abdominal pain (0.092), lower abdominal pain (0.038), nausea (0.037), dizziness (0.030), pelvic
	pain (0.027), lightheadedness (0.026), vaginal discharge (0.024), pain in lower abdomen (0.018),
	discomfort (0.015), pain during urination (0.014), cyst (0.013), irregular menstruation (0.009), cavity (0.007), blood in urine (0.007), severe pain (0.007), abdominal discomfort (0.007), sharp
miscarriage	pain (0.006)
	sore throat (0.391), fever (0.280), pain (0.242), chills (0.192), lethargy (0.164), fatigue (0.155),
	coughing (0.111), difficulty swallowing (0.099), swelling (0.099), nausea (0.098), malaise (0.081),
	leaked fluid out of blood vessels or an organ (0.067), headache (0.066), painful swallowing (0.053), diarrhea (0.045), neck pain (0.045), redness (0.044), ear pain (0.042), enlarged neck lymph nodes
	(0.043), skin rash (0.043), feathess (0.044), ear pain (0.042), emarged neck symph nodes (0.035), skin rash (0.035), fast heart rate (0.034), swollen lymph nodes (0.033), vomiting (0.033),
	discomfort (0.032), dry cough (0.029), infection (0.025), neck swelling (0.022), weakness (0.019),
mono	loss of appetite (0.018), stiffness (0.017), dizziness (0.017), tenderness (0.017)

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	back pain (0.070), fever (0.064), pain (0.055), weakness (0.052), lesion (0.046), coughing (0.040),
	diarrhea (0.035), chills (0.031), shortness of breath (0.025), abdominal pain (0.024), mental
	confusion (0.022), lethargy (0.021), cough with phlegm (0.020), hip pain (0.020), confusion
multiple myeloma	(0.020), low blood pressure (0.019), leg pain (0.016), constipation (0.013)
	weakness (0.152), acute episodes (0.120), numbness (0.063), lethargy (0.039), seizures (0.021),
	fatigue (0.020), headache (0.020), leg pain (0.018), falling (0.018), incontinence (0.016), back pain
	(0.015), confusion (0.014), slurred speech (0.011), arm pain (0.011), double vision (0.011),
	difficulty walking (0.010), infection (0.010), blurred vision (0.010), neck pain (0.010), leaking of
	urine (0.010), leg numbness (0.010), mental confusion (0.009), lesion (0.008), hip pain (0.008), fast
	heart rate (0.008), diarrhea (0.007), constipation (0.007), muscle spasms (0.007), urinary retention
	(0.006), burning sensation (0.006), crying (0.006), hand numbness (0.005), weight loss (0.005),
	fever (0.005), difficulty swallowing (0.005), tremor (0.005), bruising (0.004), sensitivity to light
	(0.004), dehydration (0.004), problems with coordination (0.004), tenderness (0.004), hand pain
	(0.004), stiffness (0.004), insomnia (0.004), discomfort (0.004), difficulty raising the foot (0.004),
	nasal congestion (0.004), rapid involuntary eye movement (0.004), sleepiness (0.004), abnormality
multiple sclerosis	walking (0.004), vision loss (0.003), unsteady gait (0.003)
•	weakness (0.158), difficulty swallowing (0.104), acute episodes (0.094), shortness of breath
	(0.083), double vision (0.077), drooping of upper eyelid (0.071), lethargy (0.067), coughing
	(0.056), fatigue (0.040) , infection (0.029) , fainting (0.022) , low oxygen in the body (0.021) ,
	difficulty walking (0.021), slurred speech (0.020), incontinence (0.020), constipation (0.019),
myasthenia gravis	muscle weakness (0.018)
	fever (0.344), chills (0.113), lethargy (0.085), fatigue (0.078), diarrhea (0.069), weakness (0.066),
	coughing (0.064), nausea (0.060), infection (0.050), vomiting (0.036), abdominal pain (0.031),
neutropenia	malaise (0.031)
•	pain (0.167), nausea (0.060), sadness (0.042), depression (0.042), abdominal pain (0.035),
	tenderness (0.026), chills (0.026), diarrhea (0.024), shortness of breath (0.023), anxiety (0.023),
	back pain (0.020), vomiting (0.017), infection (0.016), leg pain (0.015), knee pain (0.014), swelling
obesity	(0.012), chronic back pain (0.011), weakness (0.010), redness (0.009)
	pain (0.175), knee pain (0.074), sadness (0.073), depression (0.073), hip pain (0.050), swelling
	(0.047), back pain (0.041), leg pain (0.038), bone loss (0.028), leaking of urine (0.024), anxiety
	(0.022), chronic back pain (0.021), shoulder pain (0.019), constipation (0.019), incontinence
osteoarthritis	(0.015), tenderness (0.012), restless legs syndrome (0.011), stiffness (0.011)
	pain (0.186), back pain (0.088), depression (0.040), sadness (0.040), hip pain (0.039), weakness
	(0.034), lesion (0.028), anxiety (0.020), vertigo (0.017), constipation (0.016), numbness (0.016), leg
osteoporosis	pain (0.015)
	pain (0.286), nausea (0.178), abdominal pain (0.147), vomiting (0.106), fever (0.054), weakness
	(0.053), fluid in the abdomen (0.051), diarrhea (0.050), constipation (0.044), chills (0.039),
	discomfort (0.031), shortness of breath (0.029), bowel obstruction (0.028), lethargy (0.024), fatigue
	(0.021), cramping (0.020), tenderness (0.019), dehydration (0.018), skin rash (0.015), crying
ovarian cancer	(0.015), infection (0.013)
	pain (0.785), nausea (0.303), cyst (0.198), abdominal pain (0.192), tenderness (0.115), vomiting
	(0.089), pelvic pain (0.087), diarrhea (0.069), lower abdominal pain (0.067), chills (0.058), vaginal
	bleeding (0.049), cramping (0.043), bleeding (0.039), vaginal discharge (0.037), spotting (0.036),
	pain during urination (0.029), discomfort (0.025), pain in lower abdomen (0.025), sharp pain
	(0.022), flank pain (0.021), constipation (0.018), fever (0.016), anxiety (0.013), pain in right lower
ovarian cyst	abdomen (0.011), crying (0.010)
	pain (0.709), nausea (0.328), abdominal pain (0.326), vomiting (0.196), pain in upper abdomen
	(0.158), diarrhea (0.095), acute episodes (0.069), chills (0.055), tenderness (0.028), cyst (0.016),
	upper abdominal pain (0.015), vomiting blood (0.012), weight loss (0.009), depression (0.009), loss
İ	
	of appetite (0.009), sadness (0.009), fever (0.008), constipation (0.008), flank pain (0.008), severe
pancreatitis	of appetite (0.009), sadness (0.009), fever (0.008), constipation (0.008), flank pain (0.008), severe pain (0.008), yellow skin and eyes (0.007), abdominal tenderness (0.006), abdominal discomfort (0.006)

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	weakness (0.075), confusion (0.049), tremor (0.039), mental confusion (0.035), lethargy (0.027), constipation (0.022), low blood pressure (0.017), agitation (0.017), hip pain (0.016), unsteady gait (0.012), delirium (0.011), slurred speech (0.011), falling (0.010), difficulty swallowing (0.008), fainting (0.008), visual hallucinations (0.008), tremor at rest (0.008), infection (0.008), coughing
	(0.007), dizziness (0.006), shortness of breath (0.006), difficulty walking (0.006), leaking of urine (0.006), urinary retention (0.006), malaise (0.005), cough with phlegm (0.005), incontinence (0.005), confusion in the evening hours (0.004), fatigue (0.004), hand tremor (0.004), failure to thrive (0.003), rectal pain (0.003), weight loss (0.003), tenderness (0.003), stiffness (0.003), difficulty speaking (0.003), difficulty breathing (0.003), restless legs syndrome (0.003), chronic
parkinson's disease	cough (0.003)
pink eye	redness (0.318), eye redness (0.271), eye pain (0.163), itching (0.135), swelling (0.133), coughing (0.104), sore throat (0.088), discomfort (0.082), eye irritation (0.069), nasal congestion (0.048), fever (0.041), sensitivity to light (0.039), blurred vision (0.038), leaked fluid out of blood vessels or an organ (0.035), skin rash (0.028), cough with phlegm (0.027), headache (0.025), chills (0.024), eye discharge (0.021), infection (0.017), stuffy nose (0.011), swelling of the surface of the eye (0.010), dryness (0.010), facial swelling (0.010), watery eyes (0.010)
_ r	heel pain (0.712), pain (0.485), foot pain (0.233), swelling (0.092), ankle pain (0.083), tenderness
plantar fasciitis	(0.058), limping (0.017), leg pain (0.017), bruising (0.013), sharp pain (0.010), severe pain (0.009), blood in urine (0.009), difficulty raising the foot (0.008), redness (0.008), mild pain (0.007), scar (0.007), blister (0.007)
	shortness of breath (0.186), coughing (0.116), low oxygen in the body (0.047), lethargy (0.036), fluid in the abdomen (0.032), cough with phlegm (0.032), infection (0.025), weakness (0.024), fluid in the lungs (0.023), fever (0.023), dry cough (0.022), fatigue (0.022), wheezing (0.021), collapse
pleural effusion	(0.020)
	coughing (0.402), fever (0.208), shortness of breath (0.156), cough with phlegm (0.138), chills (0.091), lethargy (0.063), low oxygen in the body (0.060), weakness (0.043), wheezing (0.042), fatigue (0.037), infection (0.034), dry cough (0.030), malaise (0.030), fast heart rate (0.027),
_	confusion (0.024), phlegm (0.018), respiratory distress (0.018), low blood pressure (0.017), fast breathing (0.016), chest pain worsened by breathing (0.014), mental confusion (0.014), coughing up blood (0.013), diarrhea (0.012), sore throat (0.010), difficulty breathing (0.010), night sweats
pneumonia	(0.009), persistent cough (0.009), fluid in the lungs (0.008) shortness of breath (0.116), pain (0.086), rib pain (0.053), coughing (0.050), chest pain worsened by
d	breathing (0.033), discomfort (0.022), bruising (0.018), collapse (0.017), back pain (0.014), seizures (0.013), fast heart rate (0.012), chest discomfort (0.011), cavity (0.010), infection (0.009), wheezing (0.009), difficulty breathing (0.009), shoulder pain (0.009), confusion (0.008), respiratory distress
pneumothorax	(0.008), chronic cough (0.008)
polycystic ovary syndrome	pain (0.412), nausea (0.177), cramping (0.080), abdominal pain (0.072), diarrhea (0.069), vaginal bleeding (0.061), pelvic pain (0.060), depression (0.059), sadness (0.058), dizziness (0.054), chills (0.051), bleeding (0.041), vomiting (0.040), anxiety (0.039), cyst (0.039), headache (0.038), lightheadedness (0.038), tenderness (0.033), irregular menstruation (0.030), sharp pain (0.030)
	sadness (0.380), depression (0.379), anxiety (0.284), thoughts of suicide (0.066), seizures (0.057), crying (0.040), insomnia (0.025), agitation (0.022), substance abuse (0.018), visual hallucinations (0.016), hearing voices (0.016), chronic back pain (0.015), back pain (0.015), paranoia (0.015), diarrhea (0.015), abdominal pain (0.014), screaming (0.013), nightmares (0.013), anger (0.013), panic attack (0.012), loss of appetite (0.010), falling (0.010), racing thoughts (0.010), tremor
post traumatic stress disorder	(0.009), confusion (0.007), itching (0.006), fear (0.006), bruising (0.005), hopelessness (0.005), fainting (0.004), severe anxiety (0.004), delirium (0.004), vision loss (0.003), poor appetite (0.003)
prostate cancer	weakness (0.077), blood in urine (0.062), urinary retention (0.043), pain (0.036), bleeding (0.036), constipation (0.032), infection (0.024), chills (0.023), lethargy (0.023), fever (0.023), incontinence (0.022), discomfort (0.022), back pain (0.017), bleeding from anus (0.016), fatigue (0.016), low blood pressure (0.015), leaking of urine (0.014), abdominal pain (0.014)
prostate calleer	sadness (0.066), depression (0.062), skin rash (0.056), redness (0.056), anxiety (0.055), swelling
psoriasis	(0.047), chills (0.038), diarrhea (0.032), infection (0.028), lesion (0.022), itching (0.021), pain (0.019), nausea (0.018), fever (0.018), abdominal pain (0.016), lump (0.016), poor appetite (0.015), dry cough (0.014), pain during urination (0.013), plaque (0.012), joint pain (0.011), lightheadedness
psoriasis	1 dry cough (0.017), pain during urmation (0.013), praque (0.012), joint pain (0.011), fightheadedness

	(0.011), red rashes (0.011), dry skin (0.011)
	depression (0.206), sadness (0.206), agitation (0.105), anxiety (0.087), paranoia (0.083), hearing voices (0.060), visual hallucinations (0.039), thoughts of suicide (0.035), confusion (0.032), screaming (0.032), crying (0.023), insomnia (0.021), mental confusion (0.019), wandering and getting lost (0.017), substance abuse (0.017), delirium (0.017), racing thoughts (0.016), manic episode (0.014), seizures (0.014), aggression (0.012), fast heart rate (0.010), dehydration (0.008), delusion (0.008), hallucination (0.007), fear (0.007), falling (0.006), disorganized behavior (0.004), anger (0.004), tremor (0.004), nightmares (0.004), difficulty with bodily movement (0.004), weight
psychosis	loss (0.004), slurred speech (0.004) shortness of breath (0.244), fast heart rate (0.056), chest pain worsened by breathing (0.049), racing
pulmonary embolism	heartbeat (0.037), swelling (0.036), coughing (0.036), low oxygen in the body (0.030), fast breathing (0.026), discomfort (0.023), calf pain (0.023), infection (0.020), chest discomfort (0.019), leg pain (0.019), back pain (0.018), chest tightness (0.018), chills (0.018), lump (0.017), coughing up blood (0.015)
Cinconsin	shortness of breath (0.160), regurgitation (0.150), low oxygen in the body (0.053), coughing
pulmonary hypertension	(0.039), fluid in the lungs (0.029), back pain (0.028), restless legs syndrome (0.021), infection (0.021), wheezing (0.018), respiratory distress (0.015), chest discomfort (0.014), cavity (0.014), malnutrition (0.013), slow heart rate (0.012), dry cough (0.012), drooping of upper eyelid (0.012), vertigo (0.011), cough with phlegm (0.011), depression (0.010), sadness (0.010)
nypertension	vision loss (0.125), blurred vision (0.065), headache (0.057), neck pain (0.041), eye pain (0.039), dehydration (0.024), difficulty walking (0.023), itching (0.020), discomfort (0.018), unequal pupils (0.017), watery diarrhea (0.015), bone loss (0.015), partial loss of vision (0.014), ear pain (0.013), fast heart rate (0.012), slow bodily movement (0.009), low oxygen in the body (0.009), vision
retinal detachment	disorder (0.009), elevated alkaline phosphatase (0.009), seeing spots (0.009), abnormality walking (0.009), malnutrition (0.009)
rhabdomyolysis	dark urine (0.060), weakness (0.056), arm pain (0.055), muscle pain (0.045), swelling (0.043), cramping (0.030), leg pain (0.029), falling (0.024), numbness (0.022), bruising (0.022), lethargy (0.021), dehydration (0.020), substance abuse (0.018), confusion (0.017), sweating (0.016), kidney failure (0.016), fatigue (0.015), muscle weakness (0.015), blood in urine (0.015), seizures (0.015), slurred speech (0.015)
rheumatoid arthritis	pain (0.211), swelling (0.072), fever (0.043), knee pain (0.038), joint pain (0.033), infection (0.029), acute episodes (0.026), weakness (0.022), shortness of breath (0.021), diarrhea (0.020), shoulder pain (0.018), redness (0.017), fatigue (0.016), hip pain (0.015), chills (0.015), depression (0.013), sadness (0.013), lethargy (0.013), wrist pain (0.013), fast heart rate (0.012), skin rash (0.011), low blood pressure (0.010)
schizophrenia	hearing voices (0.091), depression (0.069), sadness (0.069), paranoia (0.055), agitation (0.047), anxiety (0.033), thoughts of suicide (0.026), visual hallucinations (0.021), wandering and getting lost (0.015), screaming (0.014), confusion (0.014), aggression (0.011), seizures (0.011), substance abuse (0.010), racing thoughts (0.009), difficulty with bodily movement (0.008), crying (0.008), insomnia (0.008), tremor (0.007), low blood pressure (0.006), fast heart rate (0.006), slurred speech (0.005), panic attack (0.005), anger (0.005), low oxygen in the body (0.004), mental confusion (0.004), drooling (0.004), excess thirst (0.003), fear (0.003), wheezing (0.003)
sciatica	pain (0.627), back pain (0.344), leg pain (0.144), numbness (0.106), hip pain (0.076), chronic back pain (0.050), weakness (0.047), incontinence (0.023), tenderness (0.018), difficulty walking (0.016), leaking of urine (0.015), limping (0.015), leg numbness (0.013), constipation (0.011), severe pain (0.011), lower extremity pain (0.011), foot numbness (0.011), crying (0.010), acute episodes (0.009), sharp pain (0.009), flank pain (0.009), pins and needles (0.009), knee pain (0.008), difficulty raising the foot (0.007), groin pain (0.007), nerve pain (0.006)

	coughing (0.122), nasal congestion (0.077), sore throat (0.070), headache (0.054), swelling (0.043),
	shortness of breath (0.042), cough with phlegm (0.034), redness (0.032), stuffy nose (0.032), runny
	nose (0.031), itching (0.030), wheezing (0.030), sneezing (0.027), anxiety (0.026), chills (0.022),
	dry cough (0.022), chest tightness (0.021), discomfort (0.021), sinus pressure (0.020), skin rash
ganganal allarging	(0.019), eye redness (0.019), itchy eyes (0.018), ear pain (0.018), racing heartbeat (0.016), sadness (0.014), depression (0.014), fatigue (0.013), difficulty breathing (0.013), dizziness (0.013)
seasonal allergies	
	cyst (0.316), swelling (0.181), pain (0.161), lump (0.151), redness (0.116), lesion (0.060), muscle twitches (0.045), brief visual or sensory abnormality (0.033), bone loss (0.030), discomfort (0.029),
sebaceous cyst	drooping of upper eyelid (0.025), fast heart rate (0.022)
sebaceous cysi	fever (0.272), low blood pressure (0.174), infection (0.074), chills (0.072), fast heart rate (0.068),
	confusion (0.063) , lethargy (0.051) , weakness (0.047) , coughing (0.039) , low oxygen in the body
	(0.027), mental confusion (0.024), kidney failure (0.022), diarrhea (0.020), respiratory distress
	(0.014), malaise (0.014), dehydration (0.013), redness (0.013), fast breathing (0.011), abdominal
	pain (0.011), shortness of breath (0.010), vomiting (0.009), fatigue (0.008), low body temperature
	(0.006), wheezing (0.006), collapse (0.005), malnutrition (0.005), fluid in the abdomen (0.005),
sepsis	difficulty breathing (0.005)
•	skin rash (0.301), pain (0.278), nerve pain (0.047), itching (0.032), redness (0.031), flank pain
	(0.029), lesion (0.027), back pain (0.026), weakness (0.026), infection (0.024), lethargy (0.019),
	facial pain (0.016), sensitivity to light (0.016), ear pain (0.015), red rashes (0.015), eye pain (0.013),
	fatigue (0.012), arm pain (0.012), blister (0.011), rash on the face (0.008), facial swelling (0.008),
	swelling (0.008), stiffness (0.008), sharp pain (0.007), blurred vision (0.007), burning sensation
shingles	(0.007), inflammation of ear (0.007) , neck pain (0.005) , weight loss (0.005)
	pain (0.689), back pain (0.147), leg pain (0.100), arm pain (0.068), hip pain (0.056), knee pain
	(0.050), fever (0.044), joint pain (0.043), seizures (0.038), infection (0.033), shortness of breath
	(0.030), malnutrition (0.028), chest pain worsened by breathing (0.025), acute episodes (0.024),
	discomfort (0.022), severe pain (0.022), rib pain (0.021), sharp pain (0.020), coughing up blood
	(0.017), coughing (0.015), itching (0.015), vomiting (0.015), lower extremity pain (0.014), nausea
sickle cell anemia	(0.013), elbow pain (0.013), pelvic pain (0.012), vomiting blood (0.012)
	headache (0.172), coughing (0.144), fever (0.097), chills (0.082), nausea (0.079), nasal congestion
	(0.068), sinus pressure (0.062), sinus pain (0.061), dizziness (0.051), pain (0.044), sore throat
	(0.039), facial pain (0.037), tenderness (0.036), ear pain (0.029), infection (0.028), sensitivity to
	light (0.027), cough with phlegm (0.026), diarrhea (0.025), lethargy (0.024), fatigue (0.021), skin rash (0.019), neck pain (0.018), eye pain (0.018), stuffy nose (0.017), lightheadedness (0.015),
	inflammation of ear (0.014), blurred vision (0.014), discomfort (0.014), malaise (0.013), dry cough
	(0.013), vertigo (0.012), jaw pain (0.011), phlegm (0.011), shortness of breath (0.010), double
sinusitis	vision (0.010)
	depression (0.086), sadness (0.086), shortness of breath (0.045), lethargy (0.044), anxiety (0.032),
	fatigue (0.028), coughing (0.024), snoring (0.014), confusion (0.014), chronic cough (0.013), falling
	(0.013), mental confusion (0.011), chills (0.010), erectile dysfunction (0.010), malaise (0.009),
	abdominal pain (0.009), bone loss (0.009), dizziness (0.009), infection (0.008), cough with phlegm
	(0.008), episodes of no breathing (0.008) , skin rash (0.008) , seizures (0.008) , severe pain (0.008) ,
sleep apnea	regurgitation (0.007)
	pain (0.254), weakness (0.115), back pain (0.104), neck pain (0.092), numbness (0.091), headache
	(0.064), sadness (0.063), depression (0.063), dizziness (0.043), incontinence (0.041), fainting
	(0.038), shoulder pain (0.037), lesion (0.033), chronic back pain (0.032), drooping of upper eyelid
spondylosis	(0.032), tenderness (0.025), arm pain (0.023), anxiety (0.023)
	pain (0.504), swelling (0.461), ankle pain (0.413), tenderness (0.060), foot pain (0.052), bruising
	(0.037), limping (0.033), falling (0.027), physical deformity (0.014), difficulty walking (0.014), ice
sprained ankle	pack (0.013), calf pain (0.008), throbbing pain (0.007), severe pain (0.006), discomfort (0.006)
	knee pain (0.495), pain (0.425), swelling (0.193), calf pain (0.049), leg pain (0.037), limping
	(0.035), tenderness (0.026), discomfort (0.020), falling (0.017), bruising (0.016), severe pain
	(0.013), ankle pain (0.012), ice pack (0.011), shoulder pain (0.010), difficulty walking (0.010),
sprained knee	sharp pain (0.010), swollen joint (0.007)
	pain (0.402), wrist pain (0.323), swelling (0.308), hand pain (0.103), tenderness (0.072), falling
sprained wrist	(0.060), knee pain (0.033), physical deformity (0.029), finger pain (0.029), bruising (0.026), arm
spranied wrist	(0.020), And pull (0.025), physical deformity (0.027), finger pain (0.027), bruising (0.020), affil

I	pain (0.018), numbness (0.016), elbow pain (0.015), ice pack (0.014), mild pain (0.009), ankle pain
	(0.009), decreased range of motion (0.009)
atomoch fly	diarrhea (0.533), nausea (0.526), vomiting (0.474), pain (0.336), abdominal pain (0.242), chills (0.166), cramping (0.112), fever (0.089), dehydration (0.066), watery diarrhea (0.063), tenderness (0.053), pain in upper abdomen (0.041), dizziness (0.041), abdominal discomfort (0.028), discomfort (0.028), lethargy (0.027), weakness (0.026), fatigue (0.025), headache (0.023), lightheadedness (0.019), lower abdominal pain (0.015), malaise (0.011), low blood pressure (0.010), pain during urination (0.010), fast heart rate (0.009), blood in stool (0.008), abdominal tenderness (0.008), upper abdominal pain (0.008), anxiety (0.008), loss of appetite (0.008), muscle pain (0.006), dark stool from digested blood (0.006), intermittent abdominal pain (0.006), acute episodes (0.006), gagging (0.006), constipation (0.006), stomach cramps (0.005), discomfort in
stomach flu	upper abdomen (0.005) pain (0.254), abdominal pain (0.120), nausea (0.119), sadness (0.109), depression (0.109), pain in upper abdomen (0.083), vomiting (0.074), diarrhea (0.037), bleeding (0.036), tenderness (0.034), vomiting blood (0.031), chills (0.026), malnutrition (0.018), seizures (0.013), lightheadedness (0.012), abdominal discomfort (0.011), dizziness (0.011), indigestion (0.011), wrist pain (0.010),
stomach ulcer	shortness of breath (0.009), bowel obstruction (0.009)
	sore throat (0.605), fever (0.347), pain (0.225), chills (0.215), coughing (0.159), leaked fluid out of blood vessels or an organ (0.127), difficulty swallowing (0.080), headache (0.075), ear pain (0.062), redness (0.060), swelling (0.058), nausea (0.051), neck pain (0.048), infection (0.037), nasal congestion (0.036), fatigue (0.036), painful swallowing (0.035), lethargy (0.033), vomiting (0.027), dry cough (0.026), tenderness (0.023), diarrhea (0.021), runny nose (0.021), skin rash (0.021), swollen tonsils (0.018), malaise (0.017), irritation of the tonsils (0.017), neck swelling (0.017),
strep throat	stiffness (0.016), night sweats (0.015), difficulty breathing (0.015) weakness (0.293), slurred speech (0.098), numbness (0.089), dizziness (0.078), headache (0.076), confusion (0.076), mental confusion (0.055), seizures (0.044), vertigo (0.028), malnutrition (0.027), weakness of one side of the body (0.026), blurred vision (0.022), problems with coordination (0.021), unsteady gait (0.021), difficulty speaking (0.015), double vision (0.013), vision loss (0.013), hand numbness (0.012), falling (0.012), fainting (0.011), lightheadedness (0.011), paralysis (0.010), difficulty swallowing (0.010), lethargy (0.009), unsteadiness (0.008), rapid involuntary eye
stroke	movement (0.008), memory loss (0.007), clumsiness (0.007), lesion (0.007), drooling (0.006)
tension headache	headache (0.613), pain (0.227), nausea (0.149), neck pain (0.123), dizziness (0.119), sensitivity to light (0.071), lightheadedness (0.057), anxiety (0.042), stiffness (0.040), chills (0.037), ache (0.036), blurred vision (0.036), vertigo (0.032), racing heartbeat (0.030), weakness (0.024), rapid involuntary eye movement (0.022), fainting (0.020), poor appetite (0.018), nasal congestion (0.017), vision loss (0.017), foot pain (0.016), insomnia (0.016)
thoracic	pain (0.621), back pain (0.477), numbness (0.335), weakness (0.229), leg pain (0.169), hip pain (0.098), chronic back pain (0.098), incontinence (0.061), foot numbness (0.054), leg numbness (0.053), pins and needles (0.038), severe pain (0.034), sharp pain (0.025), tenderness (0.024), leaking of urine (0.023), difficulty walking (0.023), difficulty raising the foot (0.022), knee pain
radiculopathy	(0.018), flank pain (0.016) nausea (0.097), weakness (0.067), headache (0.064), coughing (0.050), fever (0.044), diarrhea (0.042), chills (0.042), dizziness (0.039), lethargy (0.037), fatigue (0.035), numbness (0.030),
thyroid cancer thyroid nodules	vomiting (0.030), racing heartbeat (0.026), difficulty swallowing (0.023) pain (0.085), back pain (0.065), discomfort (0.055), fainting (0.051), bone loss (0.040), dizziness (0.039), difficulty swallowing (0.036), lump (0.036), swelling (0.031), racing heartbeat (0.031), headache (0.031), neck pain (0.027)
myroid noddles	headache (0.135), dizziness (0.060), seizures (0.059), fainting (0.051), nausea (0.048), tenderness (0.042), bruising (0.041), falling (0.039), neck pain (0.038), confusion (0.032), bleeding (0.029), mental confusion (0.027), blurred vision (0.026), vomiting (0.016), agitation (0.014), slurred speech (0.012), vertigo (0.011), double vision (0.010), memory loss (0.010), sensitivity to light (0.010), unsteady gait (0.008), amnesia (0.008), persistent headache (0.008), problems with coordination (0.007), severe headache (0.007), difficulty concentrating (0.006), lightheadedness (0.006), rapid
traumatic brain injury	involuntary eye movement (0.006), elbow pain (0.006), stiffness (0.004), eye pain (0.004), jaw pain (0.004), rib pain (0.004), malnutrition (0.003), sleepiness (0.003), paralysis (0.003), shoulder pain

	(0.003), brief visual or sensory abnormality (0.003), substance abuse (0.003)
	nausea (0.043), vomiting (0.039), infection (0.023), chills (0.022), lethargy (0.019), weakness
	(0.018), diarrhea (0.015), excess urination (0.012), fatigue (0.012), fever (0.009), dizziness (0.009), excess thirst (0.008), pain during urination (0.008), increased thirst (0.007), shortness of breath
	(0.007), foot pain (0.007), abdominal pain (0.006), malaise (0.006), kidney failure (0.006),
type 1 diabetes	coughing (0.006), thirst (0.006), depression (0.006)
type i didectes	weakness (0.029), infection (0.014), lethargy (0.013), dizziness (0.012), fatigue (0.009), redness
	(0.008), excess urination (0.007) , confusion (0.006) , leg pain (0.005) , foot pain (0.005) , shortness of
	breath (0.005), mental confusion (0.005), low blood pressure (0.004), excess thirst (0.004),
type 2 diabetes	coughing (0.003), increased thirst (0.003), malaise (0.003)
	pain (0.414), diarrhea (0.278), abdominal pain (0.248), nausea (0.228), acute episodes (0.215),
	vomiting (0.097), cramping (0.084), fever (0.082), chills (0.066), blood in stool (0.038), bleeding
	from anus (0.035), tenderness (0.033), lower abdominal pain (0.028), scarring within the bile ducts (0.027), weight loss (0.024), fatigue (0.023), lethargy (0.019), bowel obstruction (0.019), rectal pain
	(0.019), dehydration (0.019), infection (0.018), bleeding (0.018), fast heart rate (0.018),
ulcerative colitis	lightheadedness (0.016), discomfort (0.013), constipation (0.013)
	coughing (0.503), fever (0.187), sore throat (0.165), cough with phlegm (0.163), shortness of breath
	(0.148), chills (0.124), runny nose (0.094), wheezing (0.080), nasal congestion (0.074), headache
	(0.061), ear pain (0.046), dry cough (0.041), vertigo (0.038), redness (0.037), leaking of urine
	(0.032), mild cough (0.028), malaise (0.027), sneezing (0.027), pain during urination (0.026), loss
upper respiratory	of appetite (0.026), lethargy (0.025), fatigue (0.024), chest pressure (0.024), acute episodes (0.024),
infection	tenderness (0.024)
	blood in urine (0.146), pain during urination (0.146), fever (0.071), chills (0.045), flank pain
	(0.043), urinary retention (0.043), confusion (0.034), lethargy (0.028), weakness (0.028), pain in lower abdomen (0.022), mental confusion (0.021), infection (0.021), discomfort (0.020), nausea
	(0.015), abdominal pain (0.013), constipation (0.011), diarrhea (0.011), cloudy urine (0.010),
	frequent urge to urinate (0.010), fatigue (0.010), low blood pressure (0.010), incontinence (0.010),
	leaking of urine (0.009), malaise (0.009), foul smelling urine (0.008), back pain (0.008), lower
	abdominal pain (0.008), pelvic pain (0.008), tenderness (0.007), dehydration (0.006), dark urine
urinary tract	(0.005), abdominal discomfort (0.005), vaginal discharge (0.004), fast heart rate (0.004), frequent
infection	urination (0.004), groin pain (0.004)
	depression (0.119), sadness (0.118), malnutrition (0.096), anxiety (0.075), bone loss (0.056),
	seizures (0.055), diarrhea (0.046), vomiting (0.042), weight loss (0.031), dizziness (0.028),
vitamin d	dehydration (0.027), infection (0.023), insomnia (0.021), fast heart rate (0.020), leaking of urine
deficiency	(0.019)

Appendix 3: Clinical Evaluation for Alternate Settings

In the clinical evaluation presented in the main paper we took physicians' tagging of potential edges on a 4-point scale ('always happens', 'sometimes happens', 'rarely happens' or 'never happens') and binarized them, grouping results from the 'always', 'sometimes' and 'rarely' categories into the positive category and leaving the 'never' tag to be negative. Below we present the precision-recall curve of an alternate binarization according to which results from the 'always' and 'sometimes' categories are grouped into the positive category and 'rarely' and 'never' tags are grouped into the negative. The figure below shows that the relative performance of the models is consistent across binarization schemas, with noisy or outperforming naïve Bayes on both precision and recall.

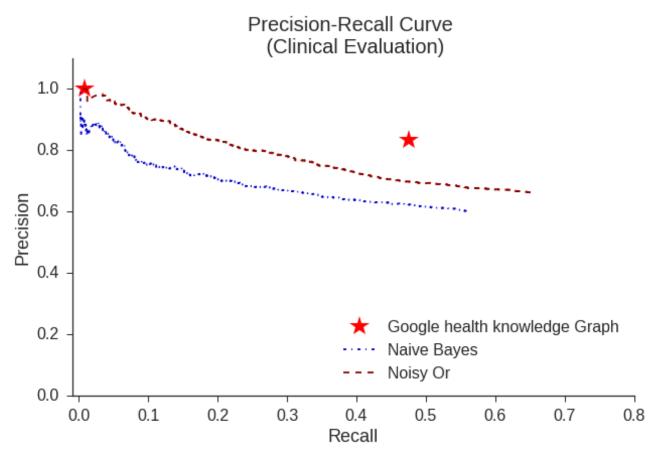


Figure 1: Precision-recall curves for the clinical evaluation framework with alternate binarization.

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