

Rules for the Gastro-Intestinal Expert System

T = TRUE

F = FALSE

Nr	Variable	Rule (TRUE IF)	
1	diabetes-recent	AND	<div>diabetes=T</div> <div>diabetes-onset=T</div>
2	abdominal-pain-severity	OR	<div> <div> <div>abdominal-pain-strength=T</div> <div>abdominal-pain-medication-improve=F</div> </div> <div> <div>abdominal-pain-duration=T</div> <div>abdominal-pain-food-related=F</div> </div> </div>
3	vomit-severity	SUM > 1	<div>vomit-duration=T</div> <div>vomit-frequency=T</div> <div>vomit-food-related=F</div> <div>vomit-medication-improve=F</div>
4	gastroenteritis-severity	SUM > 1	<div>gastroenteritis-duration=T</div> <div>gastroenteritis-frequency=T</div> <div>gastroenteritis-food-related=F</div> <div>gastroenteritis-medication-improve=F</div>

5	constipation-severity	SUM > 1	constipation-duration=T	
			constipation-no-pass=T	
			constipation -medication-improve=F	
6	anemia-suspicion	SUM > 1	fatigue=T	
			loss-of-appetite=T	
			pallor=T	
7	hepato-suspicion	OR	jaundice=T	
			SUM > 1	
				weight-loss=T
				abdominal-pain-middle=T
				heavy-smoker=T
				heavy-drinker=T
8	esophagus-suspicion	AND	dysphagia=T	
			OR	
				chest-pain-duration=T
				vomit-blood=T
9	history-severity	OR	diabetes-recent=T	
			other-cancers=T	
			cancers-in-family=T	
			SUM > 1	
				age=T
				heavy-drinker=T
				heavy-smoker=T
				diabetes-recent=F
				other-gastro-diseases=T

10	blood-from-stomach	OR	stools-blood-dark=T	
			AND	
				vomit-blood=T
				vomit-severity=T
11	blood-from-colon	OR	stools-blood-red=T	
			AND	
				bleeding-rectum=T
				constipation-severity=T
12	stomach-suspicion	OR	weight-loss=T	
			AND	
				abdominal-pain-up=T
				vomit-severity=T
13	colon-suspicion	AND	constipation-severity=T	
			weight-loss=T	
14	blood-tests	OR	history-severity=T	
			abdominal-pain-severity=T	
			vomit-severity=T	
			gastroenteritis-severity=T	
			constipation-severity=T	
			anemia-suspicion=T	
			hepato-suspicion=T	
			esophagus-suspicion=T	
15	liver-functions-test	OR	history-severity=T	
			hepato-suspicion=T	

16	kidneys-functions-test	OR	history-severity=T
			abdominal-pain-severity=T
			vomit-severity=T
			gastroenteritis-severity=T
17	upper-endoscopy	OR	blood-from-stomach=T
			stomach-suspicion=T
			esophagus-suspicion=T
18	colonoscopy	OR	blood-from-colon=T
			colon-suspicion=T
19	CT-scan-abdomen	AND	weight-loss=T
			OR
			stomach-suspicion=T
			colon-suspicion=T
20	CT-scan-chest	OR	esophagus-suspicion=T
			hepato-suspicion=T
21	ultra-sound	AND	abdominal-pain-severity=T
			abdominal-pain-general=T