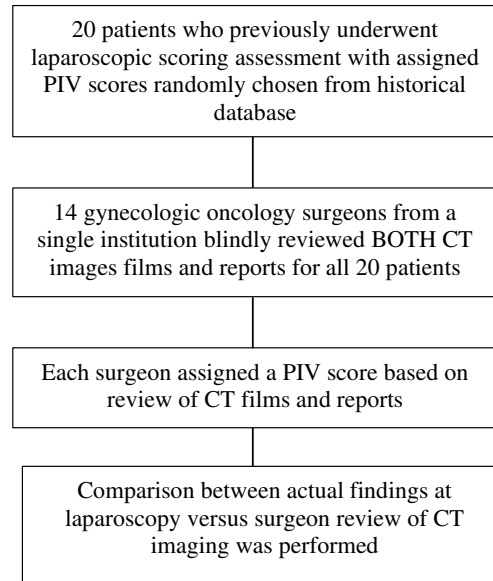


**Table 1. Fagotti Laparoscopic Scoring Algorithm**

Tumor Characteristic	Score
Peritoneal carcinomatosis: Massive peritoneal involvement and/or miliary pattern of distribution	0 (not present) or 2 (present)
Diaphragmatic surface involvement: Widespread infiltrating carcinomatosis and/or confluent nodules to most of diaphragm surface	0 (not present) or 2 (present)
Mesenteric involvement: Large infiltrating nodules and/or involvement of the root of the mesentery based on limited movement of intestinal segments	0 (not present) or 2 (present)
Omental involvement: Tumor diffusion of the omentum up to the greater curvature of the stomach	0 (not present) or 2 (present)
Bowel involvement: Tumor infiltration of large or small bowel requiring intestinal resection (excludes rectosigmoid colon) and/or	0 (not present) or 2 (present)
Stomach involvement: Obvious tumor infiltration into gastric wall	0 (not present) or 2 (present)
Liver involvement: Liver surface lesions >2 cm in size	0 (not present) or 2 (present)

**Table 2. Consort diagram**

**Table 3. Summary statistics of surgeon scores based on agreement (PIV  $\geq$  8 or PIV <8)**

Characteristic	Did not agree		Agree	
	N	%	N	%
Title:				
ASSISTANT PROFESSOR	59	49	61	51
ASSOCIATE PROFESSOR	12	30	28	70
PROFESSOR	53	44	67	56
Surgeon Name				
1	5	25	15	75
2	7	35	13	65
3	11	55	9	45
4	8	40	12	60
5	13	65	7	35
6	13	65	7	35
7	8	40	12	60
8	8	40	12	60
9	8	40	12	60
10	7	35	13	65
11	10	50	10	50
12	8	40	12	60
13	6	30	14	70
14	12	60	8	40

**Table 4a: GLMs to estimate probability of agreement between subscales**

<b>Subscale</b>	<b>Pr(agreement)</b>	<b>95%LB</b>	<b>95% UB</b>
Peritoneal	0.566	0.507	0.623
Diaphragm	0.538	0.477	0.597
Mesenteric	0.511	0.452	0.569
Omental	0.612	0.548	0.672
Bowel	0.539	0.440	0.636
Stomach	0.711	0.653	0.762
Liver	0.361	0.305	0.420

GLM=general linear model

**Table 4b: Kappa inter-rater agreement statistics on radiology summary scores**

<b>Subscale</b>	<b>Kappa</b>	<b>95%LB</b>	<b>95% UB</b>
Total Score	-0.017	-0.023	-0.005
Peritoneal	0.233	0.121	0.391
Diaphragm	0.039	-0.016	0.103
Mesenteric	0.056	0.009	0.133
Omental	0.098	0.030	0.193
Bowel	0.081	0.016	0.200
Stomach	0.115	-0.016	0.217
Liver	-0.003	-0.025	0.037

**Table 5a. Surgeon 1 Scoring Data**

Patient ID	Surgeon Score	Surgeon Triage	Actual Lap Score	Actual Lap Triage
1	4	Primary	6	NACT
2	4	Primary	14	NACT
3	6	Primary	6	NACT
4	8	NACT	10	NACT
5	4	Primary	2	Primary
6	2	Primary	14	NACT
7	6	Primary	10	NACT
8	6	Primary	8	NACT
9	6	Primary	4	Primary
10	10	NACT	8	NACT
11	4	Primary	10	NACT
12	2	Primary	4	Primary
13	6	Primary	14	NACT
14	0	Primary	2	Primary
15	10	NACT	10	NACT
16	6	Primary	8	NACT
17	8	NACT	12	NACT
18	0	Primary	0	Primary
19	8	NACT	12	NACT
20	10	NACT	10	NACT

Surgeon 1 percentage agreement: 55%; Surgeon 1 projected futile laparotomy rate: 45%

**Table 5b. Surgeon 2 Scoring Data**

Patient ID	Surgeon Score	Surgeon Triage	Actual Lap Score	Actual Lap Triage
1	2	Primary	6	NACT
2	4	Primary	14	NACT
3	8	NACT	6	NACT
4	2	Primary	10	NACT
5	10	NACT	2	Primary
6	6	Primary	14	NACT
7	8	NACT	10	NACT
8	6	Primary	8	NACT
9	8	NACT	4	Primary
10	6	Primary	8	NACT
11	4	Primary	10	NACT
12	4	Primary	4	Primary
13	8	NACT	14	NACT
14	6	Primary	2	Primary
15	2	Primary	10	NACT
16	4	Primary	8	NACT
17	8	NACT	12	NACT
18	2	Primary	0	Primary
19	2	Primary	12	NACT
20	0	Primary	10	NACT

Surgeon 2 percentage agreement: 35%; Surgeon 2 projected futile laparotomy rate: 55%

**Table 5c. Surgeon 3 Scoring Data**

Patient ID	Surgeon Score	Surgeon Triage	Actual Lap Score	Actual Lap Triage
1	4	Primary	6	NACT

2	6	Primary	14	NACT
3	8	NACT	6	NACT
4	10	NACT	10	NACT
5	8	NACT	2	Primary
6	4	Primary	14	NACT
7	4	Primary	10	NACT
8	10	NACT	8	NACT
9	6	Primary	4	Primary
10	8	NACT	8	NACT
11	6	Primary	10	NACT
12	4	Primary	4	Primary
13	6	Primary	14	NACT
14	2	Primary	2	Primary
15	10	NACT	10	NACT
16	8	NACT	8	NACT
17	8	NACT	12	NACT
18	2	Primary	0	Primary
19	8	NACT	12	NACT
20	2	Primary	10	NACT

Surgeon 3 percentage agreement: 60%; Surgeon 3 projected futile laparotomy rate: 35%

**Table 5d. Surgeon 4 Scoring Data**

Patient ID	Surgeon Score	Surgeon Triage	Actual Lap Score	Actual Lap Triage
1	2	Primary	6	NACT
2	6	Primary	14	NACT
3	4	Primary	6	NACT
4	6	Primary	10	NACT
5	8	NACT	2	Primary
6	10	NACT	14	NACT
7	8	NACT	10	NACT
8	0	Primary	8	NACT
9	4	Primary	4	Primary
10	8	NACT	8	NACT
11	6	Primary	10	NACT
12	2	Primary	4	Primary
13	8	NACT	14	NACT
14	2	Primary	2	Primary
15	10	NACT	10	NACT
16	8	NACT	8	NACT
17	8	NACT	12	NACT
18	2	Primary	0	Primary
19	6	Primary	12	NACT
20	8	NACT	10	NACT

Surgeon 4 percentage agreement: 60%; Surgeon 4 projected futile laparotomy rate: 35%

**Table 5e. Surgeon 5 Scoring Data**

Patient ID	Surgeon Score	Surgeon Triage	Actual Lap Score	Actual Lap Triage
1	10	NACT	6	NACT
2	8	NACT	14	NACT
3	2	Primary	6	NACT
4	8	NACT	10	NACT
5	12	NACT	2	Primary

6	8	NACT	14	NACT
7	10	NACT	10	NACT
8	6	Primary	8	NACT
9	0	Primary	4	Primary
10	8	NACT	8	NACT
11	8	NACT	10	NACT
12	2	Primary	4	Primary
13	10	NACT	14	NACT
14	4	Primary	2	Primary
15	12	NACT	10	NACT
16	6	Primary	8	NACT
17	2	Primary	12	NACT
18	2	Primary	0	Primary
19	4	Primary	12	NACT
20	6	Primary	10	NACT

Surgeon 5 percentage agreement: 65%; Surgeon 5 projected futile laparotomy rate: 30%

**Table 5f. Surgeon 6 Scoring Data**

Patient ID	Surgeon Score	Surgeon Triage	Actual Lap Score	Lap Triage
1	6	Primary	6	NACT
2	8	NACT	14	NACT
3	4	Primary	6	NACT
4	6	Primary	10	NACT
5	10	NACT	2	Primary
6	2	Primary	14	NACT
7	2	Primary	10	NACT
8	0	Primary	8	NACT
9	0	Primary	4	Primary
10	4	Primary	8	NACT
11	4	Primary	10	NACT
12	2	Primary	4	Primary
13	2	Primary	14	NACT
14	0	Primary	2	Primary
15	0	Primary	10	NACT
16	6	Primary	8	NACT
17	6	Primary	12	NACT
18	2	Primary	0	Primary
19	2	Primary	12	NACT
20	6	Primary	10	NACT

Surgeon 6 percentage agreement: 25%; Surgeon 6 projected futile laparotomy rate: 70%

**Table 5g. Surgeon 7 Scoring Data**

Patient ID	Surgeon Score	Surgeon Triage	Actual Lap Score	Lap Triage
1	4	Primary	6	NACT
2	2	Primary	14	NACT
3	10	NACT	6	NACT
4	8	NACT	10	NACT
5	6	Primary	2	Primary
6	8	NACT	14	NACT
7	6	Primary	10	NACT
8	10	NACT	8	NACT
9	8	NACT	4	Primary

10	10	NACT	8	NACT
11	6	Primary	10	NACT
12	6	Primary	4	Primary
13	6	Primary	14	NACT
14	4	Primary	2	Primary
15	10	NACT	10	NACT
16	8	NACT	8	NACT
17	12	NACT	12	NACT
18	2	Primary	0	Primary
19	4	Primary	12	NACT
20	6	Primary	10	NACT

Surgeon 7 percentage agreement: 60%; Surgeon 7 projected futile laparotomy rate: 35%

**Table 5h. Surgeon 8 Scoring Data**

Patient ID	Surgeon Score	Surgeon Triage	Actual Lap Score	Lap Triage
1	4	Primary	6	NACT
2	0	Primary	14	NACT
3	10	NACT	6	NACT
4	8	NACT	10	NACT
5	6	Primary	2	Primary
6	4	Primary	14	NACT
7	2	Primary	10	NACT
8	6	Primary	8	NACT
9	4	Primary	4	Primary
10	6	Primary	8	NACT
11	4	Primary	10	NACT
12	2	Primary	4	Primary
13	8	NACT	14	NACT
14	4	Primary	2	Primary
15	10	NACT	10	NACT
16	6	Primary	8	NACT
17	10	NACT	12	NACT
18	0	Primary	0	Primary
19	6	Primary	12	NACT
20	2	Primary	10	NACT

Surgeon 8 percentage agreement: 50%; Surgeon 8 projected futile laparotomy rate: 50%

**Table 5i. Surgeon 9 Scoring Data**

Patient ID	Surgeon Score	Surgeon Triage	Actual Lap Score	Lap Triage
1	6	Primary	6	NACT
2	4	Primary	14	NACT
3	8	NACT	6	NACT
4	10	NACT	10	NACT
5	10	NACT	2	Primary
6	8	NACT	14	NACT
7	8	NACT	10	NACT
8	6	Primary	8	NACT
9	2	Primary	4	Primary
10	10	NACT	8	NACT
11	6	Primary	10	NACT
12	4	Primary	4	Primary
13	8	NACT	14	NACT



14	10	NACT	2	Primary
15	12	NACT	10	NACT
16	6	Primary	8	NACT
17	10	NACT	12	NACT
18	4	Primary	0	Primary
19	8	NACT	12	NACT
20	6	Primary	10	NACT

Surgeon 9 percentage agreement: 60%; Surgeon 9 projected futile laparotomy rate: 30%

**Table 5j. Surgeon 10 Scoring Data**

Patient ID	Surgeon Score	Surgeon Triage	Actual Lap Score	Lap Triage
1	6	Primary	6	NACT
2	8	NACT	14	NACT
3	4	Primary	6	NACT
4	6	Primary	10	NACT
5	8	NACT	2	Primary
6	12	NACT	14	NACT
7	8	NACT	10	NACT
8	2	Primary	8	NACT
9	0	Primary	4	Primary
10	10	NACT	8	NACT
11	8	NACT	10	NACT
12	0	Primary	4	Primary
13	10	NACT	14	NACT
14	4	Primary	2	Primary
15	6	Primary	10	NACT
16	8	NACT	8	NACT
17	10	NACT	12	NACT
18	4	Primary	0	Primary
19	8	NACT	12	NACT
20	2	Primary	10	NACT

Surgeon 10 percentage agreement: 65%; Surgeon 10 projected futile laparotomy rate: 30%

**Table 5k. Surgeon 11 Scoring Data**

Patient ID	Surgeon Score	Surgeon Triage	Actual Lap Score	Lap Triage
1	6	Primary	6	NACT
2	2	Primary	14	NACT
3	10	NACT	6	NACT
4	4	Primary	10	NACT
5	6	Primary	2	Primary
6	4	Primary	14	NACT
7	2	Primary	10	NACT
8	4	Primary	8	NACT
9	6	Primary	4	Primary
10	8	NACT	8	NACT
11	8	NACT	10	NACT
12	4	Primary	4	Primary
13	10	NACT	14	NACT
14	6	Primary	2	Primary
15	12	NACT	10	NACT

16	6	Primary	8	NACT
17	12	NACT	12	NACT
18	0	Primary	0	Primary
19	6	Primary	12	NACT
20	8	NACT	10	NACT

Surgeon 11 percentage agreement: 60%; Surgeon 11 projected futile laparotomy rate: 40%

**Table 5l. Surgeon 12 Scoring Data**

Patient ID	Surgeon Score	Surgeon Triage	Actual Lap Score	Lap Triage
1	2	Primary	6	NACT
2	2	Primary	14	NACT
3	4	Primary	6	NACT
4	2	Primary	10	NACT
5	8	NACT	2	Primary
6	6	Primary	14	NACT
7	10	NACT	10	NACT
8	0	Primary	8	NACT
9	2	Primary	4	Primary
10	8	NACT	8	NACT
11	2	Primary	10	NACT
12	0	Primary	4	Primary
13	2	Primary	14	NACT
14	8	NACT	2	Primary
15	6	Primary	10	NACT
16	8	NACT	8	NACT
17	0	Primary	12	NACT
18	4	Primary	0	Primary
19	4	Primary	12	NACT
20	12	NACT	10	NACT

Surgeon 12 percentage agreement: 35%; Surgeon 12 projected futile laparotomy rate: 55%

**Table 5m. Surgeon 13 Scoring Data**

Patient ID	Surgeon Score	Surgeon Triage	Actual Lap Score	Lap Triage
1	2	Primary	6	NACT
2	6	Primary	14	NACT
3	8	NACT	6	NACT
4	4	Primary	10	NACT
5	8	NACT	2	Primary
6	2	Primary	14	NACT
7	4	Primary	10	NACT
8	6	Primary	8	NACT
9	4	Primary	4	Primary
10	4	Primary	8	NACT
11	2	Primary	10	NACT
12	2	Primary	4	Primary
13	6	Primary	14	NACT
14	4	Primary	2	Primary
15	12	NACT	10	NACT
16	6	Primary	8	NACT
17	12	NACT	12	NACT
18	0	Primary	0	Primary

19	2	Primary	12	NACT
20	8	NACT	10	NACT

Surgeon 13 percentage agreement: 40%; Surgeon 13 projected futile laparotomy rate: 55%

**Table 5n. Surgeon 14 Scoring Data**

Patient ID	Surgeon Score	Surgeon Triage	Actual Lap Score	Lap Triage
1	0	Primary	6	NACT
2	2	Primary	14	NACT
3	2	Primary	6	NACT
4	8	NACT	10	NACT
5	2	Primary	2	Primary
6	2	Primary	14	NACT
7	4	Primary	10	NACT
8	10	NACT	8	NACT
9	6	Primary	4	Primary
10	6	Primary	8	NACT
11	8	NACT	10	NACT
12	2	Primary	4	Primary
13	6	Primary	14	NACT
14	0	Primary	2	Primary
15	10	NACT	10	NACT
16	6	Primary	8	NACT
17	8	NACT	12	NACT
18	0	Primary	0	Primary
19	6	Primary	12	NACT
20	4	Primary	10	NACT

Surgeon 14 percentage agreement: 50%; Surgeon 14 projected futile laparotomy rate: 50%

**Figure 1. Scatterplot of scores by each disease site subscale**

