**Table S1.** Joint ratings of endometriosis diagnosis (present/absent) between operating surgeon (OS) and blinded experts (R1-R4) based on empiric assessment after viewing digital images (n=148)

		R	1	% Classified Same	κ (95% CI) <i>P-</i> value*
		Yes	No		
OS	Yes	73	11	84.6	0.63 (0.48, 0.79) <i>P</i> =0.001
	No	7	26	84.0	P=0.001
		R	2		
		Yes	No		
OS	Yes	85	19	80.2	0.55 (0.41, 0.69) <i>P</i> =0.02
	No	10	33	50.2	7 -0.02
		R	3		
		Yes	No		
OS	Yes	68	11	84.4	0.63 (0.47, 0.79) <i>P</i> =0.002
	No	6	24	04.4	7 -0.002
		R	4		
		Yes	No		
OS	Yes	76	13	84.3	0.62 (0.47, 0.78)
	No	6	26	25	P=0.002

<sup>\*</sup>Test of H0:  $\kappa = 0.40$  against H1:  $\kappa = 0.75$ 

**Table S2.** Joint ratings of endometriosis diagnosis (present/absent) between operating surgeon (OS) and blinded experts (R1-R4) based on empiric assessment after viewing digital images and operative report/drawing (n=148)

		R	1	% Classified Same	κ (95% CI) <i>P</i> -value*
		Yes	No		
SO	Yes	102	1	22.22	0.82 (0.71, 0.92)
	No	9	31	93.0%	P<0.001
		R	2		
		Yes	No		
SO	Yes	102	3	94.6%	0.87 (0.78, 0.96)
	No	5	38	94.0%	P<0.001
		R	3		
		Yes	No		
SO	Yes	92	4	93.2%	0.83 (0.72, 0.94)
	No	5	32	33.270	P<0.001
		R	4		
		Yes	No		
SO	Yes	92	5	92.7%	0.82 (0.72, 0.93)
	No	5	35	5/5	<i>P</i> <0.001

<sup>\*</sup>Test of H0:  $\kappa = 0.40$  against H1:  $\kappa = 0.75$ 

**Table S3.** Joint ratings of endometriosis diagnosis (present/absent) between operating surgeon (OS) and blinded experts (R1-R4) based on empiric assessment after viewing digital images, operative report/drawing and MRI (n=36)

		R	1	% Classified Same	κ (95% CI) <i>P</i> -value*
		Yes	No		
os	Yes	26	1	99.00/	0.68 (0.39, 0.97) <i>P</i> =0.03
	No	3	6	88.9%	
		R	12		
		Yes	No		
OS	Yes	25	2	86.1%	0.62 (0.31, 0.92) <i>P</i> =0.08
	No	3	6	50.176	7 -0.00
		R	3		
		Yes	No		
OS	Yes	24	1	90.6	0.71 (0.41, 1.0) <i>P</i> =0.02
	No	2	5	30.0	7-0.02
		R	4		
		Yes	No		
OS	Yes	24	0	93.9	0.84 (0.62, 1.0)
	No	2	7	33.3	<i>P</i> <0.001

<sup>\*</sup>Test of H0:  $\kappa = 0.40$  against H1:  $\kappa = 0.75$ 

**Table S4.** Joint ratings of endometriosis diagnosis (present/absent) between operating surgeon (OS) and blinded experts (R1-R4) based on empiric assessment after viewing digital images, operative report/drawing and histopathology report (n=67)

		R	1	% Classified Same	к (95% CI) <i>P</i> -value*	
		Yes	No			
os	Yes	43	8	84.9%	0.29 (-0.03, 0.61) <i>P</i> =0.75	
	No	0	2	84.9%	P=U.75	
		R	2			
		Yes	No			
SO	Yes	46	7	87.3%	0.32 (-0.02, 0.67) <i>P</i> =0.68	
	No	0	2	67.3%	r-0.06	
		R	3			
		Yes	No			
SO	Yes	40	7	85.7%	0.32 (-0.02, 0.66) <i>P</i> =0.68	
	No	0	2	83.776	r -0.06	
		R	4			
		Yes	No			
SO	Yes	40	10	80.8%	0.24 (-0.03, 0.51) P=0.88	
	No	0	2	GU.670	r -0.00	

<sup>\*</sup>Test of H0:  $\kappa = 0.40$  against H1:  $\kappa = 0.75$ 

**Table S5.** Joint ratings of endometriosis diagnosis (present/absent) between operating surgeon (OS) and blinded experts (R1-R4) based on empiric assessment after viewing digital images, operative report/drawing, MRI and histopathology report (n=22)

		R	1	% Classified Same	к (95% CI) <i>P</i> -value*
		Yes	No		
OS	Yes	20	1	05.5%	0.65 (0.01, 1.0) <i>P</i> =0.22
	No	0	1	95.5%	P=0.22
		R	2		
		Yes	No		
OS	Yes	20	1	91.3%	0.45 (-0.19, 1.0) <i>P</i> =0.44
	No	1	0	31.370	7 -0.44
		R	3		
		Yes	No		
OS	Yes	21	0	100.0%	1.0 <i>P</i> <0.001
	No	0	1	100.070	
		R	4		
		Yes	No		
OS	Yes	20	0	100.0%	1.0 <i>P</i> <0.001
	No	0	1	_23,675	

<sup>\*</sup>Test of H0:  $\kappa = 0.40$  against H1:  $\kappa = 0.75$ 

**Table S6.** Joint ratings of endometriosis staging (absent, I-IV) between operating surgeon (OS) and blinded experts (R1-R4) based on empiric assessment after viewing digital images (n=148)

				R 1				% classified	Weighted к
		None	1	II	III	IV	Total	in same stage	(95% CI) <i>P</i> -value*
	None	26	7	0	0	0	33		
08	1	5	26	1	0	0	32		0.60
0	II	5	10	5	0	0	20	55.6%	(0.47, 0.74)
	III	0	9	6	4	3	22	33.0%	P<0.001
	IV	1	4	0	1	4	10		F<0.001
	Total	37	56	12	5	7	117		
				R 2				% classified	Weighted κ
		None	1	II	III	IV	Total	in same stage	(95% CI) <i>P</i> -value*
	None	33	9	0	1	0	43	_	
S	1	11	22	6	1	0	40		0.40
08	II	6	14	3	1	0	24	42 50/	0.49
	III	0	14	5	5	2	26	43.5%	(0.37, 0.61) <i>P</i> =0.07
	IV	2	4	3	4	1	14		P=0.07
	Total	52	63	17	12	3	147		
				R 3				% classified	Weighted κ
		None	1	II	III	IV	Total	in same stage	(95% CI) <i>P</i> -value*
	None	24	5	1	0	0	30		
S	1	6	14	6	0	1	27		0.70
08	II	4	10	3	0	0	17	45 00/	0.70
	III	1	6	8	4	5	24	45.9%	(0.60, 0.79)
	IV	0	0	3	3	5	11		<i>P</i> <0.001
	Total	35	35	21	7	11	109		
				R 4				% classified in same	Weighted к (95% CI)
		None	I	II	Ш	IV	Total	stage	P-value*
	None	26	4	2	0	0	32		
	1	6	20	9	0	0	35		0.61
OS	II	5	8	7	1	1	22	48.8%	(0.48, 0.74)
O	III	1	4	9	4	3	21	70.070	P<0.001
	IV	1	2	2	4	2	11		7 \0.001
	Total	39	38	29	9	6	121		

<sup>\*</sup>Test of H0:  $\kappa = 0.40$  against H1:  $\kappa = 0.75$ 

**Table S7.** Joint ratings of endometriosis staging (absent, I-IV) between operating surgeon (OS) and blinded experts (R1-R4) based on empiric assessment after viewing digital images and operative report/drawing (n=148)

				R 1				% classified	Weighted ĸ
		None	1	Ш	III	IV	Total	in same stage	(95% CI) <i>P</i> -value*
	None	31	7	1	0	1	40		
OS	I	1	34	4	1	0	40		0.83
0	II	0	18	6	0	0	24	62.9%	0.75, 0.91
	III	0	2	6	10	7	25	02.976	P<0.001
	IV	0	0	1	4	9	14		F<0.001
	Total	32	61	18	15	17	143		
				R 2				% classified	Weighted ĸ
		None	1	II	III	IV	Total	in same stage	(95% CI) <i>P-</i> value*
	None	38	4	0	1	0	43		
OS	1	3	31	5	1	0	40		0.90
0	II	0	22	1	1	0	24	58.1%	0.80
	III	0	5	9	11	2	27	58.1%	0.73, 0.87 <i>P</i> <0.001
	IV	0	0	2	7	5	14		P<0.001
	Total	41	62	17	21	7	148		
				R 3				% classified	Weighted ĸ
		None	1	II	Ш	IV	Total	in same stage	(95% CI) <i>P</i> -value*
	None	32	4	0	0	1	37	_	
OS	I	2	23	7	1	1	34		0.78
0	II	1	15	6	0	0	22	CO 00/	
	III	0	2	10	10	4	26	60.9%	0.67, 0.88 <i>P</i> <0.001
	IV	1	0	1	2	10	14		P<0.001
	Total	36	44	24	13	16	133		
				R 4				% classified in same	Weighted κ (95% CI)
		None	1	II	Ш	IV	Total	stage	<i>P</i> -value*
	None	35	3	1	0	1	40		
	I	4	20	11	1	0	36		0.80
OS	II	1	10	10	1	0	22	59.1%	0.71, 0.88
U	III	0	3	7	9	6	25	33.170	P<0.001
	IV	0	1	0	6	7	14		7 10.001
	Total	40	37	29	17	14	137		

<sup>\*</sup>Test of H0: κ = 0.40 against H1: κ = 0.75

**Table S8.** Joint ratings of endometriosis staging (absent, I-IV) between operating surgeon (OS) and blinded experts (R1-R4) based on empiric assessment after viewing digital images, operative report/drawing and MRI Findings (n=36)

				R 1				% classified	Weighted к
		None	1	II	Ш	IV	Total	in same stage	(95% CI) <i>P</i> -value*
	None	6	3	0	0	0	9		
08	I	1	7	1	2	0	11		0.79
0	II	0	2	1	1	0	4	52.8%	(0.66, 0.92)
	III	0	2	1	2	3	8	32.670	P<0.001
	IV	0	0	0	1	3	4		F < 0.001
	Total	7	14	3	6	6	36		
				R 2				% classified	Weighted κ
		None	1	II	III	IV	Total	in same stage	(95% CI) <i>P</i> -value*
	None	6	3	0	0	0	9		
08	1	2	4	4	1	0	11		0.77
0	II	0	2	1	1	0	4	47.2%	(0.63, 0.90)
	III	0	2	2	4	0	8	47.2%	(0.63, 0.90) P<0.001
	IV	0	0	0	2	2	4		P<0.001
	Total	8	11	7	8	2	36		
				R 3				% classified	Weighted κ
		None	1	II	Ш	IV	Total	in same stage	(95% CI) <i>P</i> -value*
	None	5	2	0	0	0	7		
os	I	1	4	2	1	1	9		0.76
0	II	0	2	2	0	0	4	46.00/	
	III	0	1	2	1	4	8	46.9%	(0.59, 0.92) <i>P</i> <0.001
	IV	0	0	0	1	3	4		P<0.001
	Total	6	9	6	3	8	32		
				R 4				% classified	Weighted κ
		None	I	II	111	IV	Total	in same stage	(95% CI) <i>P</i> -value*
	None	7	1	1	0	0	9		
	1	0	6	0	2	0	8		0.81
os	II	0	1	2	1	0	4	57.6%	(0.70, 0.93)
0	Ш	0	1	0	2	5	8	37.070	P<0.001
	IV	0	0	0	2	2	4		F>0.001
	Total	7	9	3	7	7	33		

<sup>\*</sup>Test of H0: κ = 0.40 against H1: κ = 0.75

**Table S9.** Joint ratings of endometriosis staging (absent, I-IV) between operating surgeon (OS) and blinded experts (R1-R4) based on empiric assessment after viewing digital images, operative report/drawing and histopathology findings (n=67)

				R 1				% classified in same	Weighted κ (95% CI)
		None	I	II	Ш	IV	Total	stage	<i>P</i> -value*
	None	2	0	0	0	0	2		
OS	1	6	12	1	0	0	19		0.82
O	II	2	6	2	0	0	10	54.7%	(0.74, 0.90)
	III	0	0	3	7	3	13	J <del>4</del> .770	P<0.001
	IV	0	0	1	2	6	9		7 < 0.001
	Total	10	18	7	9	9	53		
				R 2				% classified	Weighted κ
		None	1	II	III	IV	Total	in same stage	(95% CI) <i>P</i> -value*
	None	2	0	0	0	0	2		
OS	1	4	14	1	0	0	19		0.67
0	II	2	8	0	0	0	10	47.2%	(0.54, 0.80)
	III	1	2	3	7	2	15	47.2/0	P<0.001
	IV	0	0	3	3	3	9		P<0.001
	Total	9	24	7	10	5	55		
				R 3				% classified	Weighted κ
		None	1	II	Ш	IV	Total	in same stage	(95% CI) <i>P</i> -value*
	None	2	0	0	0	0	2	333 83	
(A)	1	3	9	3	0	0	15		
08	II	2	5	2	0	0	9	<b>54.00</b> /	0.65
	III	1	2	3	5	3	14	51.0%	(0.55, 0.85)
	IV	1	0	1	0	7	9		<i>P</i> <0.001
	Total	9	16	9	5	10	49		
				R 4				% classified in same	Weighted к (95% CI)
		None	I	II	Ш	IV	Total	stage	<i>P</i> -value*
	None	2	0	0	0	0	2		
	ı	6	9	3	0	0	18		0.65
08	II	3	3	4	0	0	10	48.1%	(0.46, 0.84)
J	III	0	1	4	6	2	13	10.170	P<0.001
	IV	1	1	0	3	4	9		7 10.001
	Total	12	14	11	9	6	52		

<sup>\*</sup>Test of H0: κ = 0.40 against H1: κ = 0.75

**Table S10.** Joint ratings of endometriosis staging (absent, I-IV) between operating surgeon (OS) and blinded experts (R1-R4) based on empiric assessment after viewing digital images, operative report/drawing, MRI, and histopathology findings (n=22)

		None	ı	R 1 II	III	IV	Total	% classified in same stage	Weighted κ (95% CI) <i>P</i> -value*
	None	1	0	0	0	0	2		
08	1	1	4	0	2	0	7		0.73
0	II	0	2	1	1	0	4	45 50/	0.72
	Ш	0	1	1	1	4	7	45.5%	(0.52, 0.92) <i>P</i> <0.001
	IV	0	0	0	0	3	3		P<0.001
	Total	2	7	2	4	7	22		
				R 2				% classified	Weighted ĸ
		None	1	II	III	IV	Total	in same stage	(95% CI) <i>P</i> -value*
	None	0	1	0	0	0	1		
OS	1	1	3	3	0	0	7		0.73
0	II	0	2	1	1	0	4	45.5%	(0.54, 0.91)
	Ш	0	1	2	4	0	7	45.570	P<0.001
	IV	0	0	0	1	2	3		7 <0.001
	Total	1	7	6	6	2	22		
				R 3				% classified	Weighted к
		None	1	II	Ш	IV	Total	in same stage	(95% CI) <i>P</i> -value*
	None	1	0	0	0	0	1		
OS	I	0	2	3	1	1	7		0.65
0	II	0	1	3	0	0	4	45.5%	(0.37, 0.93)
	Ш	0	0	2	1	4	7	45.570	P=0.01
	IV	0	0	0	0	3	3		F-0.01
	Total	1	3	8	2	8	22		
				R 4				% classified	Weighted κ
		None	1	II	Ш	IV	Total	in same stage	(95% CI) <i>P</i> -value*
	None	1	0	0	0	0	1		
	I	0	4	0	2	0	6		0.76
OS	II	0	1	2	1	0	4	52.4%	
0	Ш	0	0	0	2	5	7	JZ.4%	(0.57, 0.94) <i>P</i> <0.001
	IV	0	0	0	1	2	3		P<0.001
	Total	1	5	2	6	7	21		

<sup>\*</sup>Test of H0:  $\kappa = 0.40$  against H1:  $\kappa = 0.75$ 

**Table S11.** Joint ratings of endometriosis staging (absent, I-IV) between operating surgeon (OS) and blinded experts (R1-R4) based on rASRM algorithm assessment after viewing digital images (n=148)

		None	ı	R 1 II	III	IV	Total	% classified in same stage	Weighted κ (95% CI) <i>P</i> -value*
	None	26	6	0	0	0	32		
08	I	7	36	3	0	0	46		0.66
	II	3	7	2	1	1	14	58.9%	0.53,0.80
	III	1	4	0	2	0	7	30.970	0.53,0.80 P<0.001
	IV	0	4	0	2	0	7		P<0.001
	Total	37	57	5	5	7	112		
				R 2				% classified	Weighted к
		None	I	II	Ш	IV	Total	in same stage	(95% CI) <i>P</i> -value*
	None	33	7	0	2	0	42		
os	I	13	35	6	1	0	55		0.53
0	II	3	8	1	3	1	16	52.1%	0.40, 0.67
	Ш	2	5	1	2	1	11	52.1%	P=0.03
	IV	1	6	2	6	3	18		
	Total	52	61	10	14	5	142		
				R 3				% classified	Weighted к
		None	I	II	III	IV	Total	in same	(95% CI)
								stage	<i>P</i> -value*
	None	24	5	0	0	0	29		
os	I	9	20	6	3	0	38		0.78
0	II	1	4	5	2	1	13	60.6%	0.68, 0.87
	Ш	1	1	1	5	1	9	00.070	P<0.001
	IV	0	1	3	2	9	15		7 < 0.001
	Total	35	31	15	12	11	104		
				R 4				% classified	Weighted κ
		None	ı	II	III	IV	Total	in same	(95% CI)
								stage	P-value*
	None	26	4	1	0	0	31		
	I	8	29	12	0	0	49		0.60
os	II	1	4	5	2	2	14	55.1%	0.47,0.74
U	Ш	3	0	2	3	0	8	55.1/0	P<0.001
	IV	1	1	6	5	1	14		, 10.001
	Total	39	38	26	10	3	116		

<sup>\*</sup>Test of H0:  $\kappa = 0.40$  against H1:  $\kappa = 0.75$ 

**Table S12.** Joint ratings of endometriosis staging (absent, I-IV) between operating surgeon (OS) and blinded "international" expert (R1-R4) based on rASRM algorithm assessment after viewing digital images and operative report/drawing (n=148)

				R 1				% classified	Weighted к
		None	I	II	III	IV	Total	in same stage	(95% CI) <i>P</i> -value*
	None	31	6	1	0	1	39	J	
OS	1	1	47	7	0	0	55		0.86
0	II	0	8	4	2	2	16	73.0%	0.86
	Ш	0	0	1	6	2	9	73.0%	P<0.001
	IV	0	0	1	5	12	18		P<0.001
	Total	32	61	14	13	17	137		
				R 2				% classified	Weighted ĸ
		None	1	II	III	IV	Total	in same	(95% CI) <i>P</i> -value*
	None	38	2	1	1	0	42	stage	P-value
	None	3	2 44	7	1 2	0	56		
OS	ı II	0	10	2	2	2	16		0.84
	" 	0	2	2	4	2	10	68.3%	0.77, 0.90
	IV	0	0	1	8	9	18		<i>P</i> <0.001
	Total	41	58	13	17	13	142		
	Total	71	30	R 3	17	15	142	% classified	Weighted к
		None	1	II	Ш	IV	Total	in same	(95% CI)
								stage	<i>P</i> -value*
	None	32	2	1	0	1	36		
08	ı	3	34	7	3	0	47		0.84
O	II	0	2	7	4	3	16	74.6%	0.76, 0.93
	Ш	1	0	0	7	2	10	7 1.070	P<0.001
	IV	0	0	0	3	14	17		
	Total	36	38	15	17	20	126		
				R 4				% classified	Weighted κ
		None	ı	II	Ш	IV	Total	in same stage	(95% CI) <i>P-</i> value*
	None	35	3	0	0	1	39		
	1	4	35	13	0	0	52		0.00
os	II	0	2	8	3	2	15	74.20/	0.86
0	III	1	0	1	5	1	8	71.2%	0.77,0.94 <i>P</i> <0.001
	IV	0	0	0	7	11	18		P<0.001
	Total	40	40	22	15	15	132		

<sup>\*</sup>Test of H0:  $\kappa = 0.40$  against H1:  $\kappa = 0.75$ 

**Table S13.** Joint ratings of endometriosis staging (absent, I-IV) between operating surgeon (OS) and blinded "international" expert (R1-R4) based on rASRM algorithm assessment after viewing digital images, operative report/drawing, and MRI findings (n=36)

				R 1				% classified	Weighted к
		None	ı	II	Ш	IV	Total	in same	(95% CI)
								stage	P-value*
so	None	6	2	0	0	0	8		0.89 (0.80. 0.98) <i>P</i> <0.001
	1	1	8	2	1	0	12		
	II	0	1	2	0	0	3	69.7%	
	III	0	1	0	0	0	1	09.7/0	
	IV	0	0	0	2	7	9		
	Total	7	12	4	3	7	33		
				R 2				% classified	Weighted ĸ
		None	ı	II	Ш	IV	Total	in same stage	(95% CI) <i>P</i> -value*
	None	6	1	1	0	0	8	Stage	1 -value
	I	2	5	4	1	0	12		0.81 (0.69, 0.94) <i>P</i> <0.001
OS	· II	0	2	1	0	0	3		
	 III	0	1	0	0	0	1	54.5%	
	IV	0	0	1	2	6	9		
	Total	8	9	7	3	6	33		
				R 3				% classified	Weighted к
		None	I	II	Ш	IV	Total	in same	(95% CI)
								stage	<i>P</i> -value*
	None	5	1	0	0	0	6	J	0.89 (0.79, 0.99) <i>P</i> <0.001
OS	1	1	6	0	3	0	10		
0	II	0	1	1	1	0	3	75.9%	
	Ш	0	0	0	1	0	1		
	IV	0	0	0	0	9	9		
	Total	6	8	1	5	9	29		
				R 4				% classified	Weighted ĸ
		None	I	II	III	IV	Total	in same stage	(95% CI) <i>P</i> -value*
	None	7	1	0	0	0	8	24490	
	1	0	7	0	2	0	9	76.7%	0.89 (0.80, 0.99) <i>P</i> <0.001
S	II	0	0	2	0	1	3		
oo	III	0	0	0	1	0	1		
	IV	0	0	0	3	6	9		
	Total	7	8	2	6	7	30		

<sup>\*</sup>Test of H0:  $\kappa = 0.40$  against H1:  $\kappa = 0.75$ 

**Table S14.** Joint ratings of endometriosis staging (absent, I-IV) between operating surgeon (OS) and blinded "international" expert (R1-R4) based on rASRM algorithm assessment after viewing digital images, operative report/drawing, and histopathology findings (n=67)

				R 1				% classified	Weighted к
		None	I	II	III	IV	Total	in same stage	(95% CI) <i>P</i> -value*
SO	None	2	0	0	0	0	2	_	0.75 (0.62, 0.88) <i>P</i> <0.001
	1	6	16	5	0	0	27		
	II	1	2	0	1	2	6	56.6%	
	Ш	1	0	0	6	1	8	50.0%	
	IV	0	0	2	2	6	10		
	Total	10	18	7	9	9	53		
				R 2				% classified	Weighted ĸ
		None	I	II	III	IV	Total	in same stage	(95% CI) <i>P</i> -value*
	None	2	0	0	0	0	2		0.63 (0.43, 0.82) <i>P</i> <0.001
S	1	5	19	2	1	0	27		
OS	II	1	2	0	2	1	6	F2 70/	
	Ш	0	3	3	4	0	10	52.7%	
	IV	1	0	2	3	4	10		
	Total	9	24	7	10	5	55		
				R 3				% classified	Weighted ĸ
		None	I	II	III	IV	Total	in same stage	(95% CI) <i>P</i> -value*
	None	2	0	0	0	0	2	44.9%	0.64 (0.46, 0.81) <i>P</i> <0.001
S	1	4	12	5	1	0	22		
OS	П	2	1	0	1	2	6		
	Ш	1	2	4	1	1	9		
	IV	0	1	0	2	7	10		
	Total	9	16	9	5	10	49		
				R 4				% classified	Weighted ĸ
		None	I	II	III	IV	Total	in same stage	(95% CI) <i>P</i> -value*
SO	None	2	0	0	0	0	2	J	
	1	6	14	6	0	0	26	50.0%	0.65 (0.46, 0.85) <i>P</i> <0.001
	II	2	0	2	1	1	6		
	III	1	0	2	4	1	8		
	IV	1	0	1	4	4	10		
	Total	12	14	11	9	6	52		

<sup>\*</sup>Test of H0:  $\kappa = 0.40$  against H1:  $\kappa = 0.75$ 

**Table S15.** Joint ratings of endometriosis staging (absent, I-IV) between operating surgeon (OS) and blinded "international" expert (R1-R4) based on rASRM algorithm assessment after viewing digital images, operative report/drawing, MRI, and histopathology findings (n=22)

	<u> </u>	iti, and mistor	<u> </u>	R 1	•			% classified	Weighted к
		None	I	II	III	IV	Total	in same stage	(95% CI) <i>P</i> -value*
os	None	1	0	0	0	0	1	_	0.78 (0.60, 0.96) <i>P</i> <0.001
	1	1	5	0	3	0	9		
	II	0	1	2	0	0	3	68.2%	
	Ш	0	1	0	0	0	1	06.270	
	IV	0	0	0	1	7	8		
	Total	2	7	2	4	7	22		
				R 2				% classified	Weighted ĸ
		None	I	II	Ш	IV	Total	in same	(95% CI)
								stage	<i>P</i> -value*
	None	0	1	0	0	0	1		0.65 (0.45, 0.83) <i>P</i> <0.001
08	ı	1	4	3	1	0	9		
O	II	0	2	0	1	0	3	27.2%	
	Ш	0	0	1	0	0	1		
	IV	0	0	2	4	2	8		
	Total	1	7	6	6	2	22		
				R 3				% classified	Weighted ĸ
		None	I	II	III	IV	Total	in same stage	(95% CI) <i>P-</i> value*
	None	1	0	0	0	0	1	Ü	0.81 (0.66, 0.97) <i>P</i> <0.001
S	1	0	2	5	2	0	9	59.0%	
00	II	0	1	2	0	0	3		
	Ш	0	0	1	0	0	1		
	IV	0	0	0	0	8	8		
	Total	1	3	8	2	8	22		
				R 4				% classified	Weighted ĸ
		None	I	II	III	IV	Total	in same stage	(95% CI) <i>P</i> -value*
SO	None	1	0	0	0	0	1	<b>G</b> -	
	1	0	5	0	3	0	8	71.4%	0.77 (0.58, 0.97) <i>P</i> <0.001
	II	0	0	2	0	1	3		
	III	0	0	0	1	0	1		
	IV	0	0	0	2	6	8		
	Total	1	5	2	6	7	21		

<sup>\*</sup>Test of H0:  $\kappa$  = 0.40 against H1:  $\kappa$  = 0.75