Table 1. Summary of pooled results of sensitivity, specificity and diagnostic accuracy of ultrasound for detection of DIE.

Sr. no.	Author (Year)	Study design	Reference standard	Population size	Sensitivity	Specificity	Accuracy	Lesion location
1	Padmehr et al., 2023	retrospective cross-sectional study		170	86.76% & 70.86%	86.76% & 70.86%	100%	For left ovarian & right ovarian endometriosis
2	Savelli et al., 2012	prospective design	Surgery and histopathology	381	77% & 45%	95% & 98%	88% & 81%	Overall values for expert operators & first-level operators
3	Leonardi et al., 2022	international, multicenter prospective	Surgery and histopathology	273	89.8% & 88.4%	75.9% & 78.8%	85.9% & 86.1%	Overall pooled values based on histology & surgical visualization
4	Abrão et al., 2007	cross-sectional design	MRI	104	98% & 95%	100% & 98%	99% & 97%	With respect to the rectosigmoid and retro cervical sites
5	Fernandez et al., 2024	retrospective observational case series	Surgery and histopathology	100	NA	NA	92%	Cul-de-sac, rectovaginal septum, uterosacral ligament, cervix, ovaries
6	Chen et al., 2019	respective longitudinal study	Surgery and histopathology	29	26.7% & 42.9%	85.7% & 87.5%	55.2%	With respect to identification of rectal infiltration & rectovaginal endometriosis
7	Bauşic et al., 2023	retrospective longitudinal study	Laparoscopy and histopathology	256	93.78%	57.14%		Ovarian endometriomas
8	Vimercati et al., 2012	Prospective study	Laparoscopy and histopathology	90	81.1%	94.2%	89.2%	Overall
9	Bartlett et al., 2020	Retrospective observational study	Laparoscopy and histopathology	83	22% by US 61% by MRI	Not provided	22%	Overall
10	Freger et al., 2023	Prospective study, secondary analysis		54	82.6%, 75.0%, 100%	100%, 100%, 100%	92.6%, 94.4%, 100%	For the left USL, right USL, and torus uterine (TU)
11	Chen et al., 2024	Prospective study	Laparoscopy	42	92.3%	93.8%	92.9%	For DIE nodules on USLs with and without POD fluid
12	Xiang et al., 2022	Systematic review and meta-analysis	Laparoscopic surgery, histopathology	1,707	98%	100%	97%	Overall pooled values
13	Ros et al., 2021	Prospective study	Laparoscopic surgery, histopathology	172	96.6% & 83.9%	82.1% & 89.4%	89.5% & 86.6%	For USLs & TU

continued

Table 1. Continued

14	Gonçalves et al., 2021	Prospective study	Laparoscopy	120	85.7%	99.1%	92.4%	For retrocervical, ovarian, and bladder endometriosis
15	Leonardi, 2022	Prospective international pilot study	Surgery, histopathology	273	88.4%	78.8%	86.1%	Overall values based on surgery
16	Montanari, 2022	Prospective multicenter study	Surgery, histopathology	745	95%	93%	94%	For rectovaginal septum and vagina
17	Kamkarfar et al., 2022	Comparative evaluation	Surgery, histopathology	80	93%	65%	79%	Endometriosis based on laparoscopy
18	Moradi et al., 2022	Comparative evaluation	Laparoscopy	69	88.6%	60%	74.3%	DIE nodule
19	Sadighi et al., 2023	Cross-sectional study	Laparoscopy, histopathology	110	58.3%	98.7%	89.5%	For DIE and POD obliteration in the anterior pelvic compartment
20	Guerriero et al., 2016	Systematic review and meta-analysis	Surgery	2639	91%	97%	94%	Rectosigmoid
21	Guerriero et al., 2015	Systematic review and meta-analysis	Surgery	1583	53%	93%	73%	Overall pooled values
22	Keckstein et al., 2022	Prospective, multicenter study	Surgery	745	95% (#Enzian A)	99% (#Enzian FI)	99% (#Enzian FB)	Enzian compartments
23	Hudelist et al., 2011	Systematic review and meta-analysis	Laparoscopy, histopathology	1106	91%	98%	94.5%	Bowel endometriosis
24	Gerges et al., 2021	Systematic review and meta-analysis	Laparoscopy, histopathology	3374	89%	97%	93%	Pooled value for rectal/rectosigmoid DE
25	Phua et al., 2016	Observational cohort study	Laparoscopy	214	82%	97%	89.5%	POD obliteration
26	Deslandes et al., 2020	Systematic review	Laparoscopy, histopathology	35 studies	78.5% to 85.3%	46.1% to 92.5%	75.7% to 97%	Overall pooled values
27	Zhao et al., 2022	Meta-analysis	Surgery	23 studies	72%	99%	85.5%	Overall pooled values
28	Garzon et al., 2024	Prospective observational design	Laparoscopic surgery	476	90.74%	98.58%	97.69%	Parametria endometriosis