

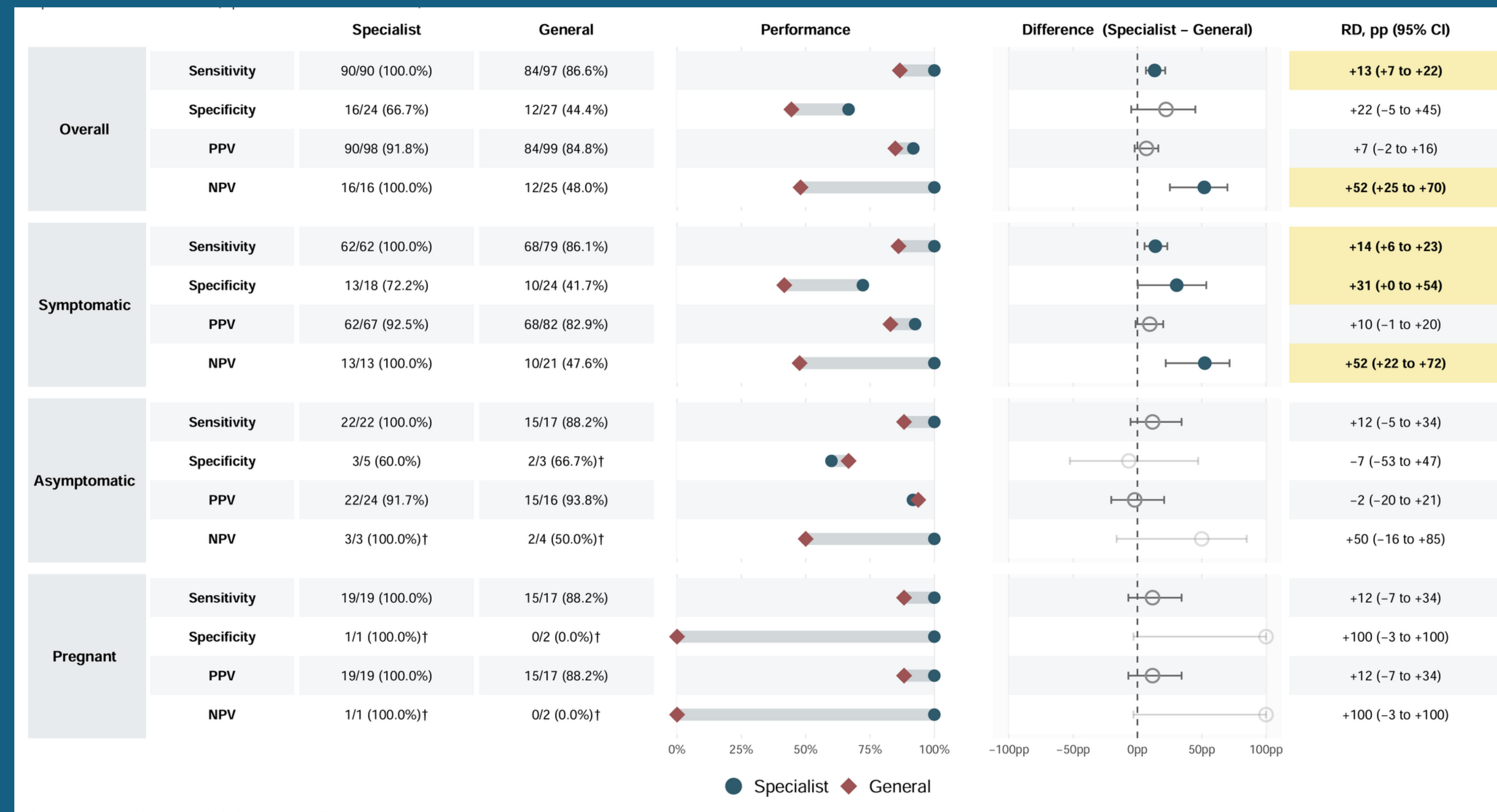
Diagnostic Accuracy of Ultrasound for Adnexal Torsion: The Impact of Examiner Expertise and Use of the Whirlpool Sign

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Overall Diagnostic Performance for Suspected Ovarian Torsion by Operator Group and Clinical Subgroup



Objective

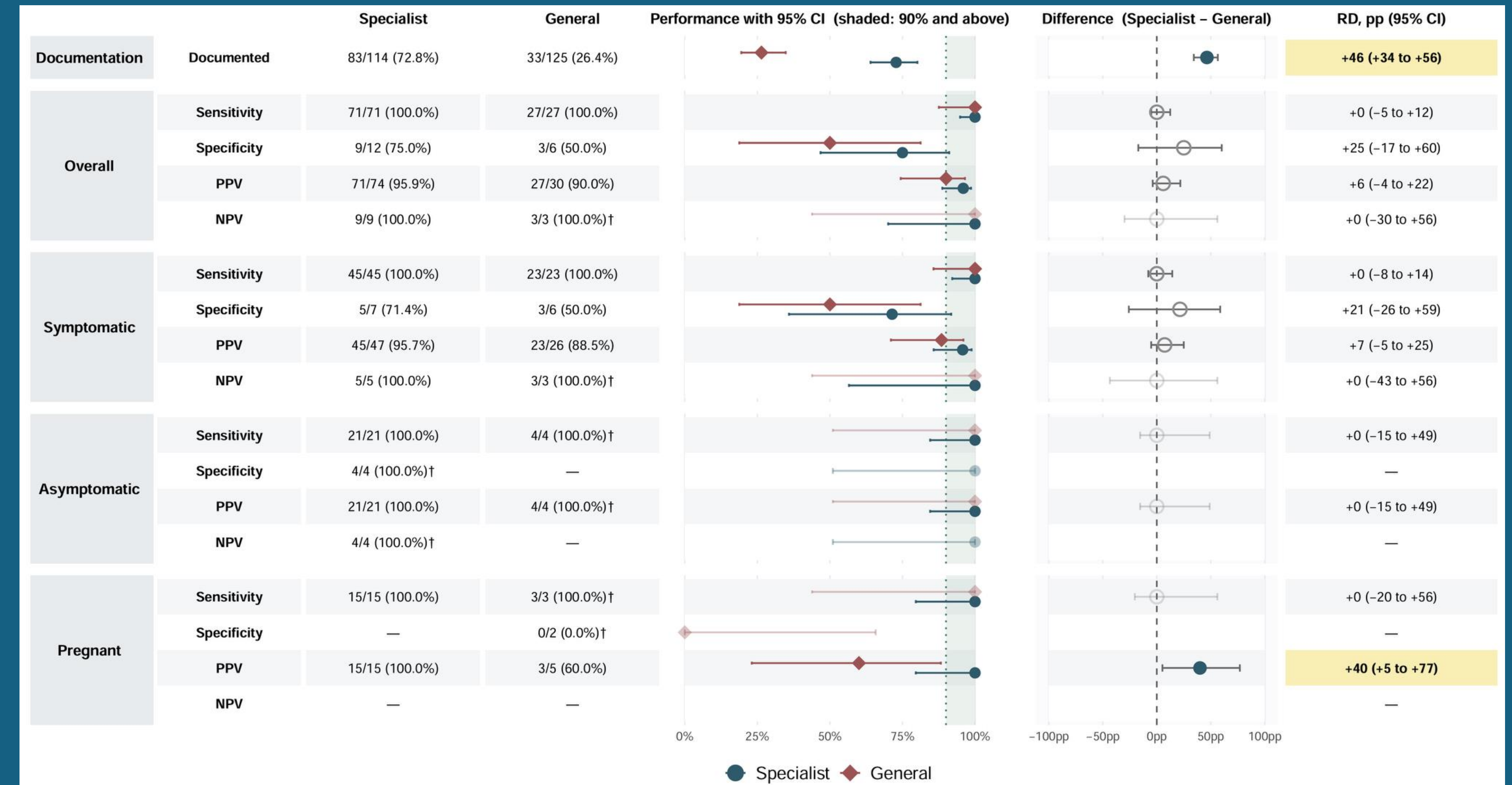
Comparing ultrasound diagnostic accuracy :specialists vs. general operators, in suspected ovarian torsion, with focus on the added value of the Whirlpool Sign (WS) in pregnant and asymptomatic patients

Methods

Retrospective cohort, 2014–2026. 239 patients (Specialists n=114, General n=125) who underwent laparoscopy for suspected adnexal torsion.



Whirlpool Sign Documentation Rate and Diagnostic Performance by Operator Group



Results

Torsion confirmed: 78.2% (187/239)

NPV: 100% (16/16, Specialist) vs. 48.0% (General), p<0.001

WS documented: 72.8% vs. 26.4%, p<0.001

WS once elicited: 100% (98/98) sensitivity, 94.2% PPV, comparable across operators

Conclusion

Specialists show superior diagnostic accuracy, most notably in pregnant and asymptomatic patients, driven primarily by active use of the WS.

The WS is a teachable, high-yield sign: once elicited, it performs comparably regardless of operator expertise.