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The application of artificial intelligence (AI) technology in the teaching of ultrasound diagnosis of adnexal masses

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Introduction

- To explore the potential of AI technology in ultrasound teaching for adnexal masses.
- Aim: to improve the diagnostic proficiency of junior ultrasound physicians.

Methods

- 102 patients with adnexal masses underwent transvaginal ultrasound (Jan–Mar 2020).
- Pathological diagnosis served as the gold standard.
- Diagnostic accuracy, sensitivity, and specificity were compared among AI, senior, and junior physicians.

Results

- AI correctly diagnosed 88/102 cases; senior physicians 83/102; junior physicians 53/102.
- AI significantly outperformed junior physicians in accuracy, sensitivity, and specificity (all $p < 0.05$).
- No statistically significant differences were observed between AI and senior physicians.

Conclusion

AI technology enhances diagnostic ability of junior ultrasound physicians. It is a valuable adjunct in ultrasound education.

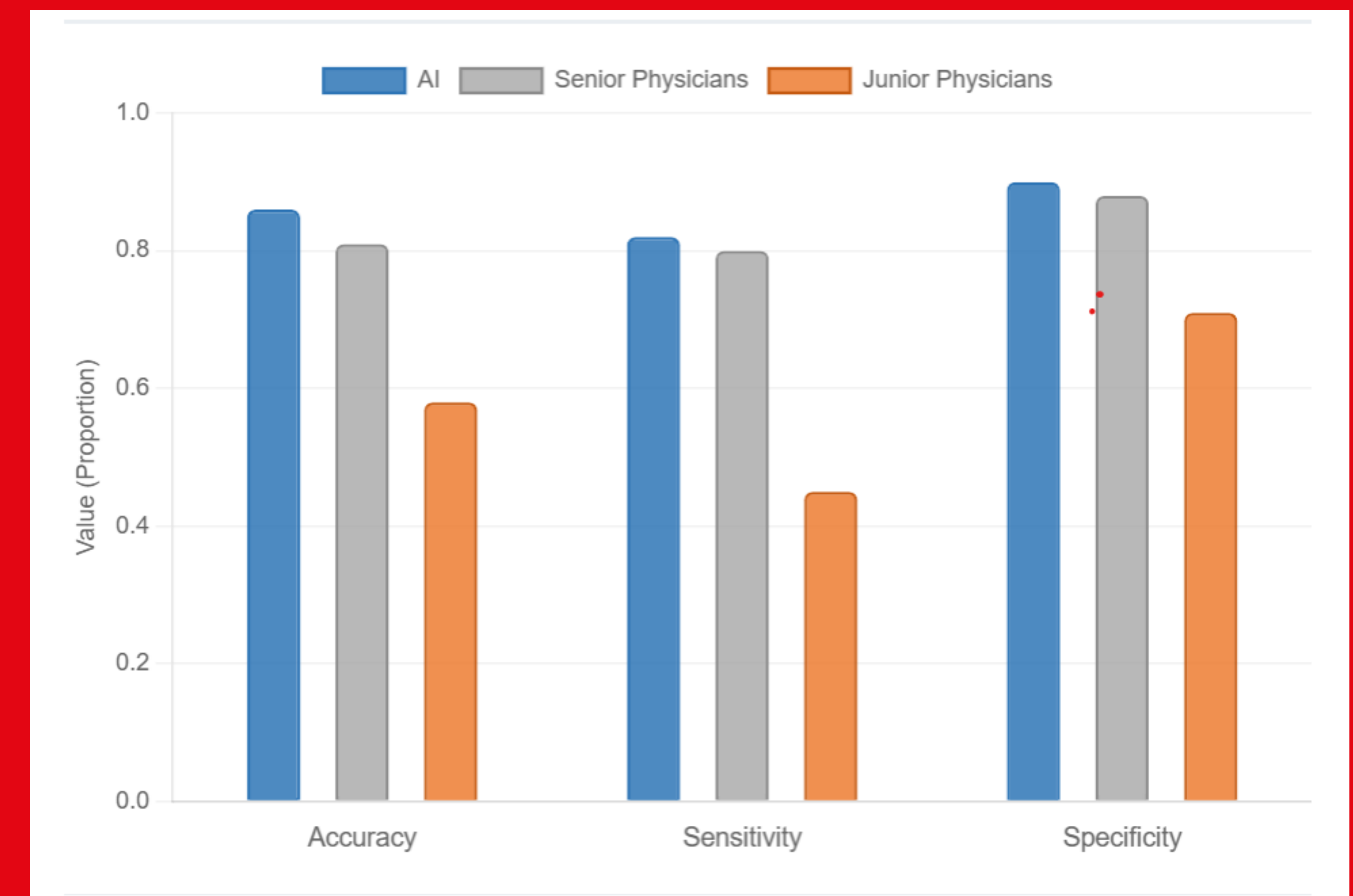


Figure 1. Comparison of diagnostic performance among AI, senior, and junior physicians.