Ultrasound: A poor diagnostic test for cryptorchidism

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This prospective, observational study by Wong et al determined the diagnostic performance of ultrasound among boys referred to a tertiary hospital with palpable undescended testes. This study builds upon the extensive body of evidence that ultrasound is a poor diagnostic test for cryptorchidism. At best, ultrasound is a needless expense. At worst, ultrasound delays definitive surgical care. The recent American Urological Association guidelines on cryptorchidism also state that ultrasound is unnecessary for boys with undescended testes.

Ultrasound is unnecessary because physical exam can reliably differentiate retractile testes from undescended testes and determine if the testis is palpable or not. Despite evidence to the contrary and guidelines that recommend against using ultrasound for the pre-surgical evaluation of cryptorchidism, ultrasound remains a commonly used diagnostic imaging study for children with non-scrotal testes.

Future studies should determine the barriers to adherence to guidelines and identify interventions (e.g., Physician Quality Reporting System [PQRS] measures, clinical decision support) that decrease inappropriate ultrasound use.

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References

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