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Venue:	Journal of the Canadian Chiropractic Association
Title:	Article: Sonographic evaluation of spondylolysis: technique description and feasibililt study of diagnostic ultrasound for the detection of L5 pars interarticularis fractures
Date:	August 2024
Туре:	Article
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Abstract (or Book Review):	Objective: Technique description and verification of L5 pars interarticularis (L5PI) using diagnostic ultrasound (DUS).
	Methods: Asymptomatic 10-year-old male subject was scanned with diagnostic ultrasound applying a linear array transducer (8–13 MHz) over L5/S1 facets; long-axis slide cephalad to capture both superior (SAP) and inferior articulating process (IAP) of L5. Contiguous hyperechoic cortex with deep acoustic shadowing between the SAP and IAP was assumed to be L5PI. To confirm in vivo technique representing L5PI, two spine models (plastic, human spine) were scanned to verify authors' assumption. Metallic paperclip was placed over L5PI then DUS image captured. Lastly, a subject with known spondylolysis was imaged and sonographic appearance of L5PI compared.
	Results: The structures localized with the metal paperclip on L5PI models were equivalent to the in vivo DUS image. Spondylolysis demonstrates an abrupt step-off defect at L5PI.
	Conclusion: We report the first technique description and verification of the L5PI using DUS.