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19 **Abstract**

20 Background Context: Clinicians regard lumbar lordotic curvature (LLC) with respect to low back pain (LBP) in

21 a contradictory fashion. The time-honored point of view is that LLC itself, or its increment causes LBP. On the

22 other hand, recently, the biomechanical role of LLC has been emphasized and loss of lordosis is considered a

23 possible cause of LBP. The relationship between LLC and LBP has immense clinical significance, since it serves

24 as the basis of therapeutic exercises for treating and preventing LBP.

25 Purpose: This study aimed to (1) determine the difference in LLC in those with and without LBP and to (2)

26 investigate confounding factors that might affect the association between LLC and LBP.

27 Study Design: Systematic review and meta-analysis.

28 Patient Sample: The inclusion criteria consisted of observational studies that included information on lumbar

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