

Spondyloptosis

Grade V [Spondylolisthesis](#)

Spondyloptosis usually results from high-velocity [injury](#), and many [patients](#) will also have other associated injuries.

see [Traumatic spondyloptosis](#).

[Patient](#)-Specific [3D](#) Printed [Models](#) provide added value for initial [clinical diagnosis](#), preoperative surgical and implant [planning](#), and patient and trainee [education](#). [3D spine models](#) are usually designed using [CT data](#), due to the ability to rapidly image osseous structures with high spatial resolution. Combining CT and [MRI](#) to derive a composite model of bony and neurological [anatomy](#) can potentially provide even more useful information for complex cases. Parthasarathy et al. described such a case involving an [adolescent](#) with a grade V [spondylolisthesis](#) in which a composite model was manufactured for preoperative and intraoperative evaluation and guidance. They provide a detailed [workflow](#) for creating such models and outline their potential benefit in guiding a [multidisciplinary](#) team approach ¹⁾.

¹⁾

Parthasarathy J, Sribnick EA, Ho ML, Beebe A. Customised hybrid CT-MRI 3D-printed model for grade V spondylolisthesis in an adolescent. BMJ Case Rep. 2021 Mar 1;14(3):e239192. doi: 10.1136/bcr-2020-239192. PMID: 33649040.

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