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Abbreviations: io3DF, intraoperative three-dimensional fluoroscopy; HyOR, hybrid operating room; 2D, two-dimensional; 3D, three-dimensional; CAN, computer-assisted navigation; CT, computed tomography; MISS, minimally invasive spine surgery, OR, operating room; PPS, percutaneous pedicle screw; TLIF, transforaminal lumbar interbody fusion.

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