



Joshua Decruz

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Research/Innovation Interests:

- Minimally invasive spine surgery
- Endoscopic spine surgery
- Spinal deformities and corrective techniques
- Neuromonitoring in spine surgery
- Clinical innovations in orthopaedic spine technologies

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Research Profile:

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Web of Science ID: AAY-5314-2020

Scopus ID: 56512319400

Biography

Dr Joshua Decruz is a Consultant Orthopaedic Spine Surgeon with comprehensive fellowship training in minimally invasive and advanced spine surgery from internationally renowned centres in Germany, the United Kingdom, and the United States. He is a distinguished Fellow of the Royal College of Surgeons Edinburgh and the Academy of Medicine Singapore, specializing in Orthopaedic Surgery. His education and professional training are complemented by intensive research activities focused on cutting-edge surgical techniques, including endoscopic spine procedures, spinal deformity correction, and neuromonitoring for complex spine surgeries. Dr Decruz's research excellence and commitment to innovation have been recognized through prestigious awards and national grants, notably the AO Spine Asia Pacific Fellowship and the Clinician Innovator Preparatory Programme (CiPP).

Selected Publications

- [Compressive Postoperative Seromas causing Neurological Deterioration](#)
- [Outcomes of Total Hip Arthroplasty using Dual Mobility Cups](#)
- [Neuromonitoring in Cervical Spine Surgery: Signal Significance](#)
- [MeNT-OS Score for Orthopaedic Surgery Prioritization](#)
- [Ambulatory Orthopaedic Surgery Paradigms during COVID-19](#)
- COVID-19 Impact on Arthroplasty in Singapore
- [Complex distal tibia fractures with multi-planar external fixation](#)

Notable Research/Innovation Awards & Grants from Past 5 Years

- AO Spine Asia Pacific Fellowship (2023)
- Clinician Innovator Preparatory Programme (CiPP), NHG-CMTi (2022–2024)

Translating Research/Innovation Into Healthcare

- Development of the Planar Ultrasound Multi-Array (PUMA) Transducer to enhance intraoperative spinal imaging and diagnostics under the CiPP (2022–2024)
- Dissemination of COVID-19 orthopaedic surgical response strategies through international peer-reviewed publications