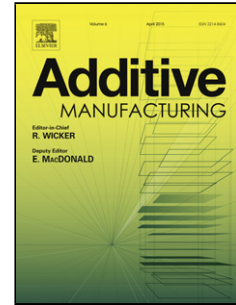


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Reporting fidelity in the literature for computer aided design and additive manufacture of implants and guides

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Abstract

The aim of this study was to critically evaluate the nature and reporting fidelity of literature about applications of computer aided design (CAD) and metal additive manufacture (AM) to surgical guides and implants. Increasingly, non-specialist designers such as surgeons or prosthetists are partaking in some or all of the design process. To comply with local regulations, it is imperative that quality is ensured during the design process, yet it is rare for literature to report on the design process of medical devices with sufficient detail to allow proper evaluation or reproduction.

This study reviewed the CAD/AM literature for implant and guide design, focussing on detailed justifications for design decisions, economic impacts, and production methods. This review showed

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