

## Casting individual cervical telescopic implants for burn-out SLA-models

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### Abstract

© Published under licence by IOP Publishing Ltd. The production of individual implants, modeled specifically for a specific clinical case, is increasingly used every year in traumatology and oncology. Traditionally, individual implants are made on five coordinate milling CNC machines. However, the need to create individual implants with a mesh structure requires the search for new ways of production. In this paper, the feasibility of casting telescopic implants, obtained by laser stereolithography, has been studied. The process of burning photopolymer from a flask was studied. Inducast installation cast prototypes of cervical implants. The ineffectiveness of this technology in the manufacture of mesh collapsible telescopic implants has been established, but it can be used for structures with a thickness of 1 mm.

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