



Weighted mandibular complete denture fabricated by using selective laser melting: A clinical report.

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Historically, weighted mandibular complete dentures have been used successfully to manage patients with severely resorbed ridges, and the weight of their cast metal has been calculated by using the weight of the wax and the density of the alloy. This poster presents the management of an 87- year-old woman with a severely resorbed mandibular ridge by using a weighted mandibular complete denture fabricated by using selective laser melting (SLM) technology in which the weight of the metal base was calculated by using the volume of the digital file used for manufacture.

Benefits of SLM

- SLM and milling techniques provide structures with limited internal porosity, in contrast to cast Co-Cr dental alloys.
- Due to their electrochemical behavior SLM prosthesis are able to behave as good as conventional CoCr castings.
- CrCo SLM prosthesis present good internal fit due to the fact that the design details (CAD) can be applied to the final product with satisfactory accuracy.

Disadvantages of a metal base

- Esthetic qualities
- Cost
- Time
- Difficulties to rebase
- Allergies to non-precious metal (1%men)

