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Improving the face of cosmetic medicine: An automatic three-dimensional analysis system for facial rejuvenation

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Precision imaging in medicine using ultrasound, X-rays, MR, CT and PET scans is generally of the highest importance in patient management. These technologies are often relied upon as integral components for quantitative assessment of the patient's initial presentation and progress. By contrast, initial assessment and recording outcomes of aesthetic procedures is largely limited to 2D photography and subjective feedback from the patient. In this report, the authors provide insight into an Australian Government-funded four-part research program that aims to produce: (1) A high definition three-dimensional imaging system that produces quantitative assessment of outcomes in facial rejuvenation that is cost-effective, user-friendly, and time-efficient; (2) A predictive modeling of potential outcomes prior to treatment derived from real data; (3) A high definition three-dimensional imaging system that illustrates changes in facial movements in response to facial rejuvenation treatments; (4) A predictive modeling of dynamic movements of the facial features as a response to a planned treatment program derived from real data.

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