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Development of a simulated computer modelling of laser treatment for coronary heart disease

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Abstract content
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Presently, there is no model that describes the efficacy of lasers in treating coronary artery disease (CAD), which can be used by clinicians with or without minimal side effects. The current conventional CAD treatment with medication or bypass surgery or minimally invasive methods often present serious side effects such as breathing problems, heart attack, and dry cough, amongst others including sudden death (Skinner, 1993: 201-203; Mackinnon et al., 2003: 162).

The objective of this research project is to use a computer modelling approach to develop a model evaluating the

It is demonstrated in Wech (2011: 29) and Karsten (2012: 1 - 2) that the optimal use of lasers as a treatment mod

Mathematical model will be developed using Maxwell's equations and Fresnel's equations to calculate the additi

This research will provide a guideline for a new cost effective and optimal CAD treatment with minimised risk of side effects.

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