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Intracoronary stents used in ischaemic heart disease – numerical calculations of mechanical properties of new implants.

Stents implanted with the use of a balloon have been situated in the centre of our interests. A very interesting fact during the implanting is that during the expanding the boundary of plasticity is exceeded, the material is hardened and the whole construction still works in the expanding state. The Finite Element Method (ANSYS) was used to create the numerical model.