
USING AUXETICS FOR DESIGNING THE CORONARY VESSELS STENTS

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Abstract

The article considers the existing stenting techniques and vascular stents types and identifies their essential disadvantages. During analysis it was established that these disadvantages can be eliminated by applying the auxetics as the materials for making stents. We have conducted a numerical analysis of nano- and microtubules made of auxetics. The article suggests the models of classical vascular stents segments and stents made of auxetics.

Keywords

Auxetics, restenosis, angioplasty, shunting, catheter, automation, hol-metallic stent, stent with the medicamentous coating, coronary vessel

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