

Abstracts

Microwave Balloon Angioplasty

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Angioplasty of the coronary and peripheral arteries has become standard treatment for obstructive atherosclerotic vascular disease. The major acute problems which are encountered are acute closure of the vessel due to elastic recoil, dissection of the vessel or thrombus. The major long term problem is restenosis. We have evaluated the utility of microwave thermal energy in resolving these problems. In normal and atherosclerotic rabbit models we have demonstrated the feasibility and efficacy of a microwave system to enhance the result of the primary angioplasty procedure. The result at four weeks was also enhanced by microwave energy. Clinical trials are planned to explore the clinical utility of this modality.

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