Title (en)

BIODEGRADABLE POLYMERIPROTEIN BASED COILS FOR INTRALUMENAL IMPLANTS

Title (de)

AUF BIOLOGISCH ABBAUBAREM POLYMERPROTEIN BASIERENDE SPIRALEN FÜR INTRALUMINALE IMPLANTATE

Title (fr)

SPIRALES A BASE DE POLYMERE/PROTEINE BIODEGRADABLE, POUR IMPLANTS ENDOLUMINAUX

Publication

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Application

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Priority

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Abstract (en)

[origin: WO0044306A1] An endovascular cellular manipulation and inflammatory response are elicited from implantation in a vascular compartment or any intraluminal location of a separable coil comprised at least in part of at least one biocompatible and absorbable polymer or protein and growth factors. Typically a catheter associated with the separable coil is used to dispose the coil into a selected body lumen. The biocompatible and absorbable polymer or protein is thrombogenic. The coil further is comprised at least in part of a growth factor or more particularly a vascular endothelial growth factor, a basic fibroblast growth factor or other growth factors. The biocompatible and absorbable polymer is in the illustrated embodiment at least one polymer selected from the group consisting of polyglycolic acid, poly SIMILAR glycolic acid/poly-L-lactic acid copolymers, polycaprolactive, polyhydroxybutyrate/hydroxyvalerate copolymers, poly-L-lactide. Polydioxanone, polycarbonates, and polyanhydrides. The biocompatible and absorbable protein is at least one protein selected from the group consisting of collagen, fibrinogen, fibronectin, vitronectin, laminin, and gelatin. In one embodiment the coil is composed of the biocompatible and absorbable polymer or protein with a radio-opaque material is disposed thereon. Alternatively, the coil is composed of a radio-opaque material, and the biocompatible and absorbable polymer or protein is disposed thereon. This apparatus may be positioned within intracranial aneurysms or any aneurysm in the body as well as within other body cavities.

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