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Post-interventional vascular remodeling: novel insights and therapeutic strategies

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Post-Interventional Vascular Remodeling; Novel Insights and Therapeutic Strategies

1. Intraplaque angiogenesis and intraplaque hemorrhage are actually two separate processes that can be individually targeted (*this thesis*);
2. Utilizing the preoperative period for therapeutic interventions, such as dietary restriction, will improve clinical outcomes (*this thesis*);
3. Regulating passage of immune cells by improving endothelial barrier function is an attractive approach to attenuate chronic inflammatory diseases, such as atherosclerosis (*this thesis*);
4. Acute inflammation early after vascular interventions kickstarts post-interventional vascular remodeling and induce outward remodeling (*this thesis*).
5. Despite the encouraging results of preoperative dietary restriction from preclinical studies on the protective effects against surgical stress, lack of evidence of efficacy in humans combined with concerns about potential side effects currently hinders clinical testing. (*Brandhorst et al, 2017, Aging Research Reviews*)
6. Inflammation does not supplant or demote lipid risk; rather, inflammatory responses provide a series of pathways that link lipids and other traditional risk factors to atherosclerosis. (*Libby, 2021, Nature*)
7. Understanding the origins and developmental processes of [coronary] arteries and veins, holds promise for designing effective revascularization strategies to deal with ischemic disease (*Cano et al, 2024, Circulation Research*)
8. The time for universal screening for hsCRP in secondary prevention has arrived (*Ridker et al. 2024, European Heart Journal*)
9. That is the reason why the Yankees always win: no one can stop looking at their pinstripes – one should not solely focus on titles, names and past achievements (*Leonardi DiCaprio as Frank William Abagnale, Catch Me If You Can*)
10. Everyone has a plan until they get punched in the face – the art of flexibility is of great importance for scientific discovery (*Mike Tyson*)
11. Science and art do not prevail in societies where they are not appreciated – the prevailing underappreciation for scientific research will negatively affect modern society (*Avicenna*)
12. There is no I in team, but there is I in failure – science is teamwork