



## **OPTIMISATION OF GENE DELIVERY TO HUMAN SAPHENOUS VEIN FOR APPLICATION TO CLINICAL TRIALS**

### **Researchers**

Professor Andrew H Baker

### **Aim**

To optimise adenovirus-mediated gene delivery to human saphenous vein grafts

### **Project Outline/Methodology**

Using virus vectors to achieve efficient and safe delivery via venous cannulation ex vivo and lumenal dwell of adenovirus vectors expressing a reporter gene.

### **Key Results**

An efficient and robust time and dose optimised regimen for gene delivery

### **Conclusions**

An optimised system for gene delivery to human saphenous vein.

### **What does this study add to the field?**

The potential to translate these pre-clinical research streams into clinical practice.

### **Implications for Practice or Policy**

A clinical trial would allow the assessment of this technology to reduce the burden of saphenous vein bypass graft failure

### **Where to next?**

A potential clinical trial depending on the outcome of a long term study in pigs assessing the most efficacious therapeutic gene

### **Further details from:**

Andrew Baker, [ab11f@clinmed.gla.ac.uk](mailto:ab11f@clinmed.gla.ac.uk), 0141 330 1977

