

## BAPRAS Pump Priming Report Form Please return to: <u>bursaries@bapras.org.uk</u>

Project title:	The WIRE Trial: should Kirschner wires be buried or not buried following adult hand fracture fixation?	
Grant holder:	Jeremy Rodrigues	
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Supervisor (if relevant):	N/A	

Date of award:	2016				
Grant awarded:	Clinical (tick box)	X	Lab research (tick box)		
Interim/ final report:	Interim (tick box)		Final (tick box)		
Study timeframe:	Start date	2016	Expected/actual completion date	2022	
Lay Summary:	About 2 in events of the bones in the bones in the bone to see ither buried with dressing amongst pat Burying wire proud may m compare the study will tac part?", "will se nationwide set set set set set set set set set se	About 2 in every 100 people every year in the UK break bones in their hand. Many of these breaks need surgery to help them heal in a good position. A common way to do this is by using smooth metal wires called "k-wires" placed into the bone to stabilise the break until it heals. These wires are either buried beneath the skin or left sticking out of the skin with dressings. We have shown that there is uncertainty amongst patients and surgeons on which technique is better. Burying wires may reduce risk of infection but leaving them proud may make removing them easier. This study will compare the two techniques to see which is better. The study will tackle issues like "will people be willing to take part?", "will surgeons take part?". It will help make a larger nationwide study to answer the question successful.			

Presentations from this work?	Multicentre prospective cohort of adult patients undergoing Kirschner wire fixation for hand fractures in the United Kingdom (WIRE SE Study) BSSH Spring Meeting, London, April 2020.
	Buried versus exposed Kirschner wires following fixation of metacarpal and phalangeal fractures: a national clinician and patient survey Society of Academic Research Surgery, Nottingham, January 2018.
	WIRE Collaborative. WIRE Trial: Survey Results. RSTN Trials Day, London, May 2017.
	Buried versus non-buried K-wire fixation of metacarpophalangeal fractures. BSSH Autumn Meeting, Cardiff, October 2016.
Publications from this work?	Journal of Plastic, Reconstructive & Aesthetic Surgery 2017; 70: 1298-1301
	Plast Reconstr Surg Glob Open 2018; 6:e1747
	Pilot and Feasibility Studies 2021; 7:128
	British Journal of Surgery (2015) 105: 40
Future scope of work? e.g additional funding.	Target for NIHR HTA researcher led funding application in 2022, based on preparatory and feasibility work completed to date.
Any further Comments?	
	As above, we have coordinated plans with TRIGGER to propose a joint, no-cost extension solution to support project completion.
Signature of award recipient:	Hodig
Print name:	Jeremy Rodrigues
Date of submission:	16/11/2021