Pioneering better health for all

Deep Venous Research











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Consultant Vascular Surgeon and Reader in Venous Surgery

18/09/2019







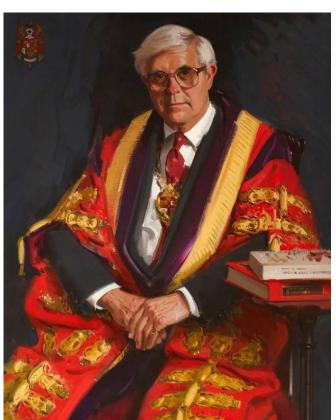


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Deep Venous Research at KHP









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What research are we doing?

- Translational
- Clinical
- Epidemiological
- Health Economics







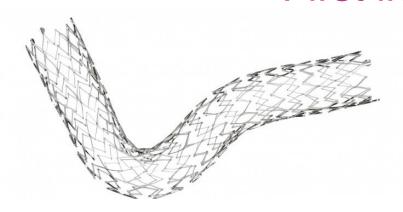




Presentation title

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First in Human



- Several first in human implants
 - VICI, VERTO, ABRE, VETEX
- Leading product development

clots used in patient for first time

Innovative device to remove blood clots used in patient for first time

2019 news

More in this section

- News and events
- Events
- Past events
- News archive

Posted on Thursday 4 April 2019

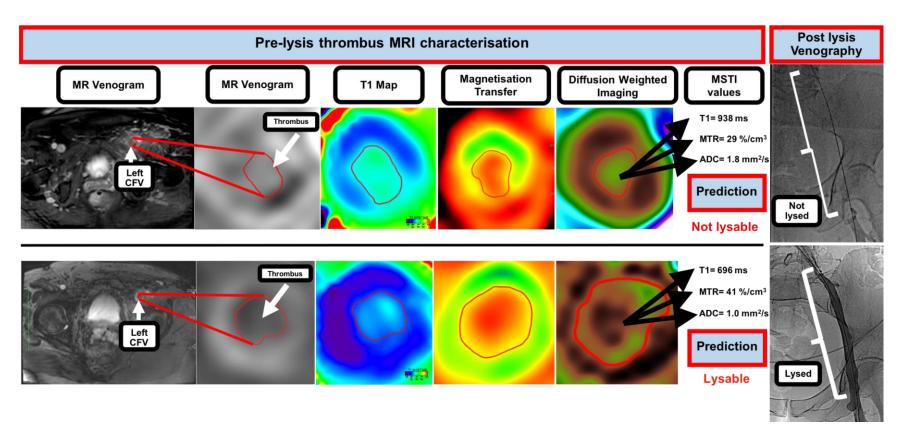
A deep vein thrombosis patient has been successfully treated with a revolutionary new clot-removing device at Guy's and St Thomas' NHS Foundation Trust.

Jackie Field, 55, was the first patient in the world to receive the experimental treatment. Surgeons treated her to remove a blood clot in her leg, which had developed after she had surgery.



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Clot Ageing



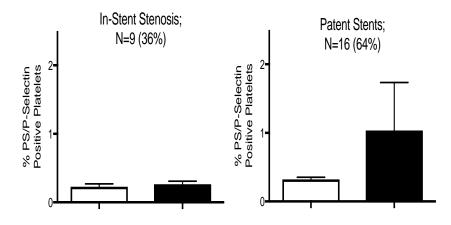
Saha, Silickas et al

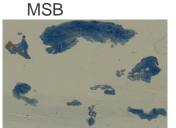
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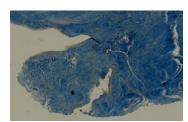
Platelet Function and Stent Stenosis



- Do platelets play a role in stent stenosis?
- What is venous stenosis?
- What can we do to treat and prevent it?









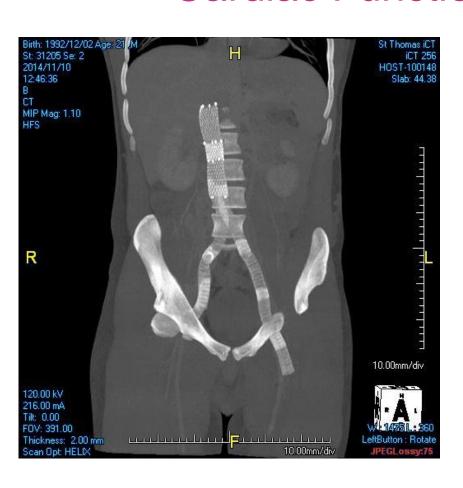




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Cardiac Function and Exercise



- Venous Return to the Heart
- Pre and post stenting
- Cross pollination to other fields
- Utilizes the broad skill at KHP

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LUPA

- Leg Ulcer Pathway Audit
- 110 Patients
- Rapid treatment
- Taken now too Cambridge, Oxford, Kaiser Permenente
- Collaboration with Industry Partners – BSCI/Medopad
- National influence to change NHS

£300,000 grant

I I III I III KING'S HEALTH PARTNERS **CARDIOVASCULAR**

Pioneering better health for all **Economics of Base LUPA Case**

Key Points

- The NHS will be able to save money implementing best evidence medicine unprecedented results
- Hospitals will increase in revenue although bottlenecks will remain until policies are changed (Oxford & Cambridge)

Pathway	Healing Differences	LUPA
65%	Healing 12 month	80%
14%	Recurrence 12 month	9%

Economic Differences for Lambeth and Southwark

£36M



£18M Save £3.6M/yr

£250K

Leg Ulcer

Revenue



St. Thomas Hospital

Guy's and St Thomas' **NHS Foundation Trust** £2.5M

Leg Ulcer Revenue

UK WIDE (EPI & Economic Model)



150K Ulcers

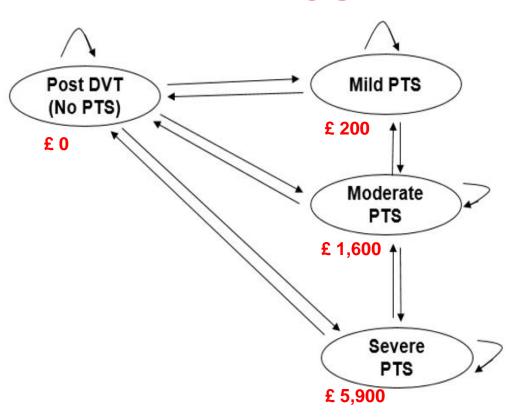




£1.6B

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ACUTE DVT HEA



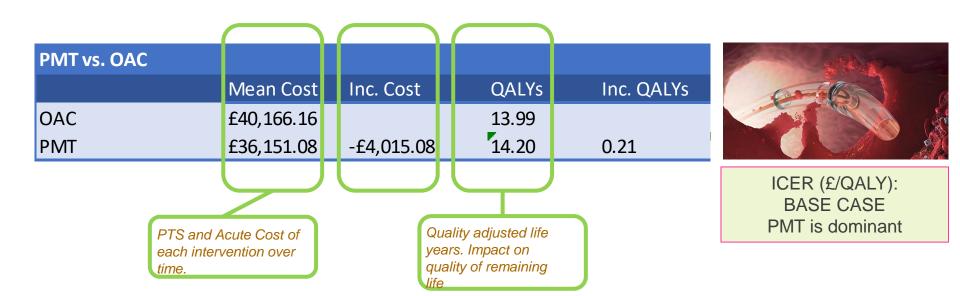
- Increasing cost with increasing severity due to increase in:
 - Visits
 - Testing and diagnostics
 - Complication costs. i.e. infected ulcer
- Cost capture a proportion of patients who are managed for venous leg ulceration

ATTRACT Trial (NEJM 2017)

18% PCDT vs. 28% OAC moderate or severe PTS (p=0.021)

2018 British pound sterling (£)

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Increased cost in acute setting offset by long term cost-benefit Reduction of moderate/severe PTS

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orac, co.	al Overview	
Aim	Address the conclusions raised by ATTRACT by: demonstrating the effectiveness of pharmacomechanical thrombectomy (PMT) in contemporary practice to reduce the incidence of Post- Thrombotic Syndrome in patients with iliofemoral DVT	
Treatments	 PMT using Zelante DVT™ catheter with mandated IVUS and provisional venous stenting. Control arm: anticoagulation and compression 	
Investigative Sites	5 US and 1 EU (Cohort) additional 2 US and 2 EU (RCT)	
Patients	Patients with symptomatic proximal DVT (common and/or external iliac, common femoral, with or without other veins involved, duration ≤14 d)	
Strategy	Phase 1: Cohort • N=65 • Acute outcomes • Safety & efficacy at 6 months→ RCT • PTS at 2 years • PTS at 2 years	

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Prizes, Publications and Training



- Regular Publications
- Prizes at International meetings
- National and International training



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Conclusion

- Broad body of work
- Prize winning
- Global Reach
- Positions KHP as a dominant player in Deep Venous Research