

Use of prolene mesh to prevent incisional hernia after elective repair of an abdominal aortic aneurysm

Submission date 30/09/2004	Recruitment status No longer recruiting	<input type="checkbox"/> Prospectively registered
		<input type="checkbox"/> Protocol
Registration date 30/09/2004	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan
		<input checked="" type="checkbox"/> Results
Last Edited 02/10/2014	Condition category Circulatory System	<input type="checkbox"/> Individual participant data

Plain English summary of protocol
Not provided at time of registration

Contact information

Type(s)
Scientific

Contact name
Mr David Mitchell

Contact details
Department of Vascular Surgery
Southmean Hospital
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United Kingdom
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Additional identifiers

Protocol serial number
N0106133351

Study information

Scientific Title

Mesh abdominal aortic aneurysm (AAA) repair trial: a randomised prospective controlled trial studying the use of prolene mesh in the abdominal wound closure of patients undergoing standard AAA repair

Study objectives

Current hypothesis as of 13/10/2009:

Incisional hernia is a significant problem following standard open AAA repair, occurring in about 1/3 of patients undergoing this procedure. Placement of a prolene mesh between the posterior rectus sheath/anterior peritoneum and the rectus muscle has been shown in a small feasibility study to be a safe technique for abdominal wound reinforcement during standard open AAA repair and appeared to prevent hernia occurrence. It is the aim of this prospective randomised controlled trial to:

1. Provide robust evidence of differences in hernia rates between standard and mesh closure techniques
2. Compare complication rates between the two groups
3. Give clear indication based on the above evidence as to whether this technique should be used routinely for the closure of all abdominal wounds following standard open AAA repair

Previous hypothesis:

Does the use of the routine placement of prolene mesh into patients undergoing elective abdominal aortic aneurysm repair reduce the number of post-operative incisional hernias?

On 13/10/2009 the sources of funding field was updated. The previous text was 'Gloucestershire R&D Consortium (UK)'.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Initial ethics approval was obtained from the Gloucestershire Research Ethics Committee (ref: 04/Q2005/33) and subsequently extended to North Bristol NHS Trust via Frenchay Research Ethics Committee (ref: S105/03). The Gloucestershire REC has now closed and all enquiries are now handled by Frenchay REC, Pembroke Room, Beaufort House, Southmead Hospital, Westbury-on-Trym, Bristol, BS10 5NB. It was fully approved in July 2004.

Study design

Multicentre randomised non-blinded controlled clinical study

Primary study design

Interventional

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Abdominal aortic aneurysm

Interventions

1. Routine mass closure with nylon sutures (standard)
2. Abdominal closure using polypropylene

Added 13/10/2009:
Follow-up at 1, 3, 6, 12, 24 and 36 months post-surgery.

Initial contact details at time of registration:
Mr Jonathan Earnshaw
Gloucester Royal Hospital

Intervention Type

Other

Phase

Not Applicable

Primary outcome(s)

Current primary outcome measures as of 13/10/2009:
Presence of incisional hernia

Previous primary outcome measures:
Reduction in post-operative hernia, reduction in number of subsequent hernia repairs

Key secondary outcome(s)

Added 13/10/2009:
1. Duration of surgery
2. Complication rate
3. Re-operation rate

Completion date

31/12/2006

Eligibility

Key inclusion criteria

Added 13/10/2009:
All patients presenting for open abdominal aortic aneurysm repair

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Sex

All

Key exclusion criteria

Added 13/10/2009:
1. Inability to give written informed consent

2. Condition predisposing to infection, including immuno-compromise or faecal contamination /soiling but not including diabetes mellitus

Date of first enrolment

03/10/2003

Date of final enrolment

31/12/2006

Locations

Countries of recruitment

United Kingdom

England

Study participating centre

Department of Vascular Surgery

Bristol

United Kingdom

BS10 5NB

Sponsor information

Organisation

Department of Health

Funder(s)

Funder type

Government

Funder Name

Gloucestershire Hospitals NHS Foundation Trust (UK)

Funder Name

North Bristol NHS Trust (UK)

Results and Publications

Individual participant data (IPD) sharing plan

IPD sharing plan summary

Not provided at time of registration

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article	results	01/10/2010		Yes	No
Participant information sheet	Participant information sheet	11/11/2025	11/11/2025	No	Yes