AUGIS HPB cancer resection audit

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London UK November 2010

Data collection

- Should / can we collect national resection data?
- Which data items to collect?
- Need / establish a facility to collect secure and anonymous data from multiple sites in real time (who will collect it?)
- What to do with the data?
 - What about those who do not collect data / are 'outliers'?

Should we collect data?

Dr Ernest A Codman (1869-1940)

- 'End results system' (Sir Thomas Percival 1740-1804)
 1914 departed Mass. General / Harvard Med Sch. as refused plans for evaluating surgeons competence.

'I am called eccentric for saying in public that Hospitals must find out what their results are, analyse these results and compare them with other hospitals.....such opinions will not be eccentric in a few years'

Cancer Reform Strategy (2007, 2008)

- 'collecting and using improved information is central to delivering this strategy'
- 'collect defined datasets of clinical outcomes'
 (NCIN Hospital Episode Statistics [HES] based)
- 'access to clinically effective and cost effective treatment' implies audit
- 'optimising data collection to reduce inequalities'

Should we collect data?

- Cancer Peer review audit integral part of MDT and NSSG measures
- Darzi: Next Stage Review (2008) 'establishing a clear framework and standard ways to measure results will allow us to demonstrate the high quality.....'
- Bruce Keogh (Medical Director NHS) presentation to DoH – 'measuring and monitoring clinical outcomes for all patients'
- Designation of Specialist services by Specialised Commissioning Groups
- GMC / Academy of the Royal Colleges (2009)-Revalidation and recertification - Audit as central to the process – 'input to National audits where they exist'



The Association of Upper Gastro-Intestinal Surgeons

AUGIS HPB Cancer resection database

http://nww.hpbaudit.nhs.uk

- 2007 DPB, Prof John Buckels, Mr Iain Cameron
- Tom Palser, Mr Richard Hardwick, Mr Merv Rees
- Cancer resections only (resources and OG audit)
- Agree data fields
- Anonymous, secure, national data collection on-line (nhs.net)

AUGIS HPB Cancer resection database

http://nww.hpbaudit.nhs.uk

- Extensive literature review
 - Mann CD.....Berry DP HPB 2010; 12(6): 380-8

A review of factors predicting perioperative death and early outcome in hepatopancreaticobiliary cancer surgery

Liver – 9500 citations resulting in 63 papers, 25000 pts,

Pancreas – 7200 citations resulting in 68 papers, 68000 pts

- Pre-op investigations
- co-morbidities (important to allow risk adjustment)
- Operation
- Outcome
- Pathology

Restrict fields to those which influence outcome in the literature

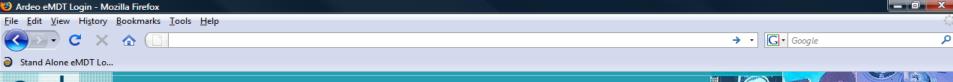
AUGIS HPB Cancer resection database

http://nww.hpbaudit.nhs.uk

- ~50 fields each for liver, biliary and pancreatic resection in click-box format
- Includes liver ablation database (international data entry)
- Develop on-line data collection in database which is surgeon specific - view own data only
- On-line support from Ardeo
- ? 2 stage data collection
 - Surgeon input for investigations, co-morbidity, operation
 - MDT input for outcome and pathology

Launched AUGIS meeting September 2009







AUGIS HPB Audit



Welcome to the AUGIS HPB cancer resection database.

This database has been developed to coordinate national data collection for HPB cancer resections and I am very grateful for the input and support provided by Professor John Buckels and Mr Iain Cameron. The datafields were agreed following an extensive literature review which identified those factors shown to influence outcome and only these datafields have been included in the dataset. The format is simple and is designed to be user friendly and it should only take a few minutes to complete the data entry.

Over time we hope to expand the dataset to include all HPB patients but currently I would encourage you to enter your cancer resection data so that we, as a professional body, take a lead in national data collection.

David Berry

Consultant HPB Surgeon & Chair of AUGIS Audit Committee

Peter Kuramapu George Kuramapu

CEO (Ardeo) Head of Projects - Director (Ardeo)



Need Helpline

Jill Cooke

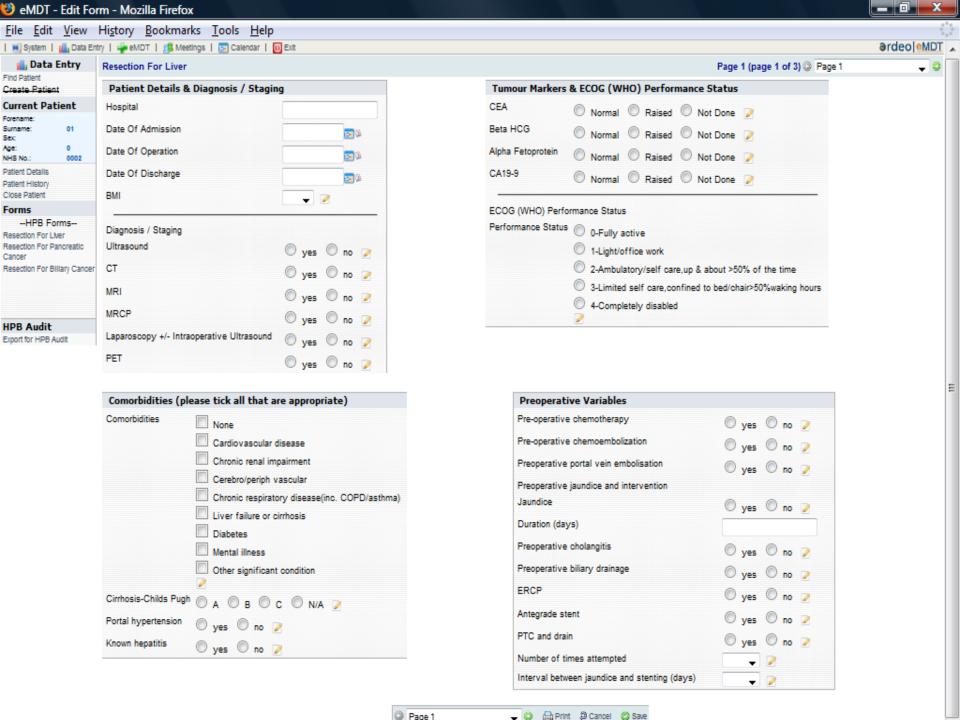
Email jill.cooke@uhl-tr.nsh.uk Tel 0116 2588376

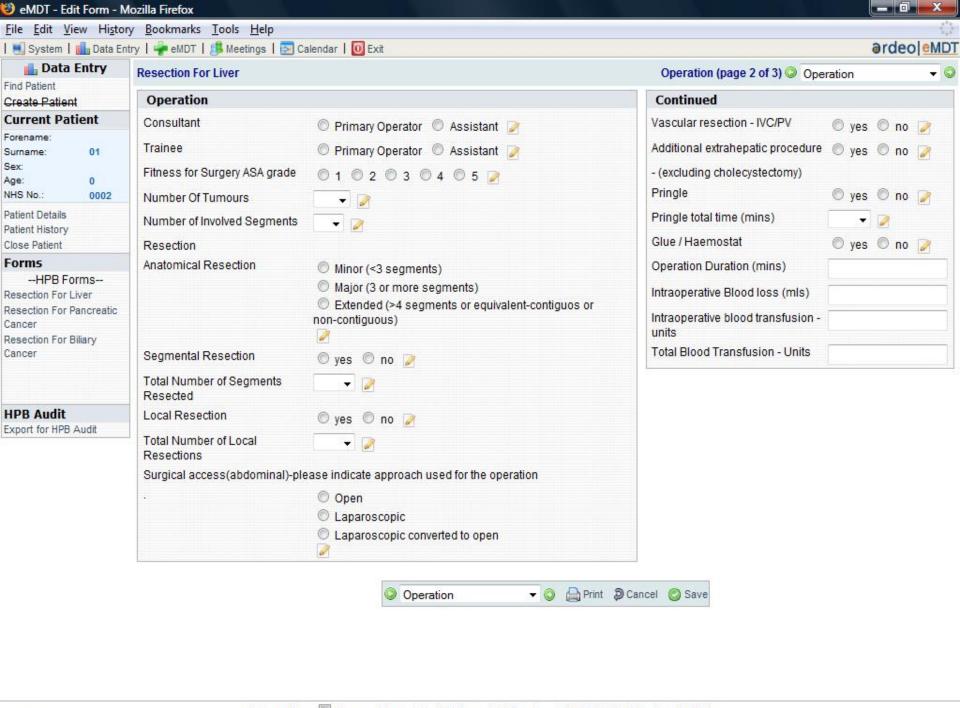
Ardeo Plc

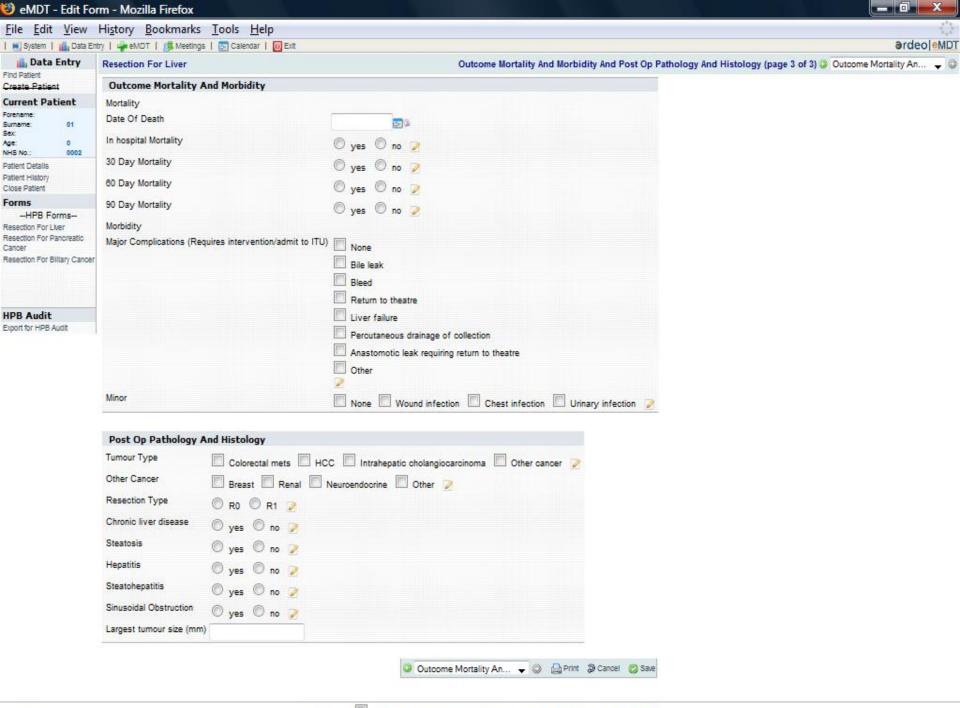
Email lad@ardeo.com Tel +44 (0)870 909 4100



Developed By:
ordeo
www.ardeo.com







International liver ablation database

http://mta.emdt.net:8080/emdt/login.jsp

- DPB, Miss Fenella Welsh
- Educational grant from Acculis
- Independent server
- On line data collection in click-box format
- Access for HPB resection data collection if nhs.net unavailable - identical datafields



Ardeo eMDT Login - Mozilla Firefox





This is an international web-based facility for data collection and audit of the short-term outcomes of microwave ablation of liver tumours using the Acculis 2.45Ghz MTA system. This has been developed by Ardeo, a specialist software company, in conjunction with the UK Association of Upper Gastrointestinal Surgeons (AUGIS), facilitated by support from Microsulis Medical Ltd.

The aim of this database is to facilitate the evaluation of the safety and efficacy of microwave ablation of liver tumours and is designed to be user-friendly and so encourage data collection. At this stage the database is not designed to facilitate an in depth analysis of long-term patient outcomes.

We hope that you will find this database straightforward to use and look forward to receiving your data. Please do not hesitate to contact us using the links below, if you require further information.

David Berry

Consultant HPB Surgeon & Chair of AUGIS Audit Committee

Fenella Welsh

Consultant HPB Surgeon & Lead Collaborator

Peter Kuramapu George Kuramapu

CEO (Ardeo) Head Of Projects - Director (Ardeo)



Need Helpline

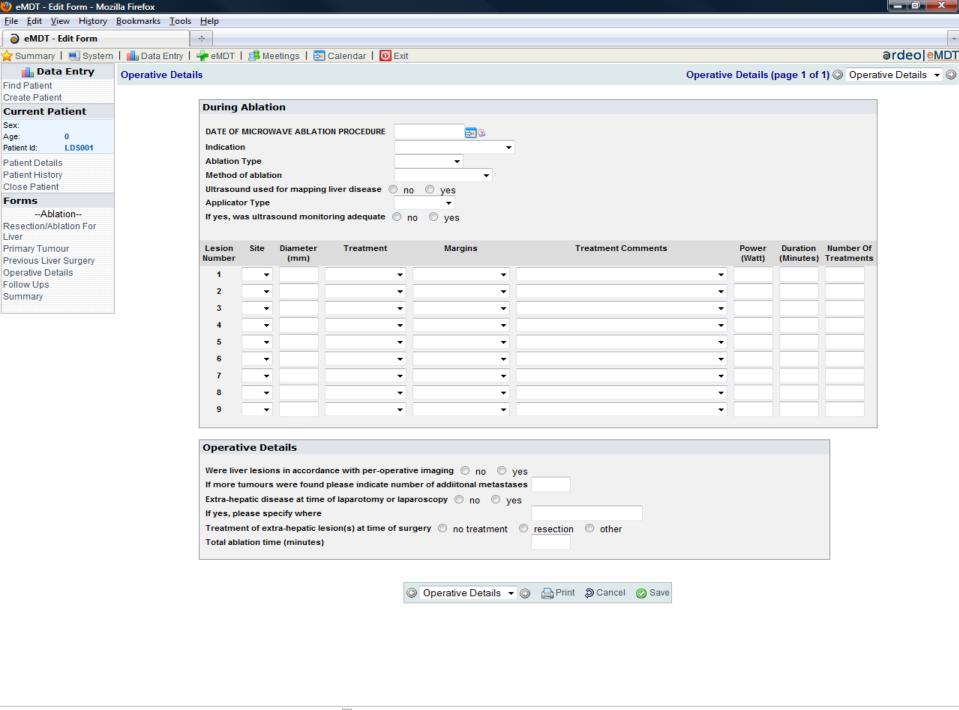
Ardeo Plc

Email lad@ardeo.com Tel +44 (0)870 909 4100









HPB Units in UK

Basingstoke Birmingham

Blackburn

Bristol

Cambridge

Coventry

Ipswich

Leeds

Leicester

Liverpool 2 centres

London 5 centres

Manchester 2 centres

Newcastle

Norwich

Nottingham

Oxford

Plymouth

Sheffield

Southampton

Stoke

Aberdeen

Dundee

Edinburgh

Glasgow

Cardiff

Swansea

Belfast



Results - September 2010 (1 year)

- Estimate 2,500 HPB cancer resections per year
- Total of 741 patients entered on database
- Liver = 481, pancreas 228, biliary tract 32
- Some centres excellent recruitment all resection patients entered
- Some centres surgeon specific

Liver resection data

- 481 cases to date
- 10 centres have entered data
- 316 cases Birmingham, Basingstoke and Leicester
- · Bristol, Royal Free, Nottingham, Leeds
- 17 centres no patients

Pancreatic cancer resections

- 228 cases to date
- 12 centres entered data



- Bristol, Ipswich, Edinburgh, Leicester
- 15 centres no patients



Future work

 Additional follow up data - date of recurrence, planned curative or palliative treatment, outcome, date of death

- Link with HES data and coding
- Non-recruiting centres most / all HPB units have local database - double data entry – CSV file to individual trusts

Future work

- Use of data
 - Individual surgeon use for revalidation link to college logbook
 - AUGIS use of data benchmarks
 - Data requests from Commissioners and individual trusts.

Long term funding



Audits from USA, Europe and UK

| | LiverMet Survey | Johns Hopkins | MSKCC | BAUS | ACP | AUGIS |
|-------------|--------------------|------------------|-------------|----------|----------|-----------|
| Sites / | 240/394 | 1/8 | 1/16 | ? | ?/200 | 20/60 |
| clinicians | Intern. | Institution | Institution | Nat | Nat | Nat/Intl |
| Online | Υ | Ν | Ν | Υ | N | Υ |
| Start | 2005 | 1990 | 1991 | 2009 | 2002 | Sept 2009 |
| No pts | >10,500 | >10,000 | >13,600 | - | 10,000 | >950 |
| Preop | Υ | Υ | Ν | variable | variable | Υ |
| Co-morb | N | Υ | Υ | | | Υ |
| Operation | Y | Υ | Υ | | | Υ |
| Outcome | Y | Υ | Υ | | | Υ |
| Pathology | Y | Υ | Υ | | | Υ |
| Data entry | Clin | Clin | admin | Clin | admin | Clin |
| Data fields | 110 | 150-200 | variable | - | - | 50 |

Summary

- Should / can we collect national resection data?
 YES little option in the future promising first year!
- Which data items to collect?
 As per literature review
- Need / establish a facility to collect secure and anonymous data from multiple sites in real time (who will collect it?)

AUGIS HPB cancer resection database and ablation database (relies on clinicians at present)

- What to do with the data?
 - What about those who do not collect data / are 'outliers'? Make the process as easy as possible. 'outliers'?

Summary / Conclusions

- Encourage prospective data collection
- Simple, quick (<5 minutes per patient)
- Clinician / nominated individual

http://nww.hpbaudit.nhs

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