REDCap & Data Governance

CASCADE Launch Event

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Steering Committee | University of Edinburgh
What we’ll cover

• Necessary approvals (briefly)
• Data governance during data collection
• Tips for using REDCap
What you need before starting data collection

- **UK**
  - Local audit department approval
  - Caldicott approval
- **Europe**
  - Dependant on country – minimum local hospital approval

- CASCADE is not research it is an audit
- Email to [cascade.redcap@gmail.com](mailto:cascade.redcap@gmail.com)
- Subject: CASCADE audit/caldicott approval centre name
Data Governance - Training

• Data governance is important
  • For patients
  • For research
  • For you

• Online module included in CASCADE e-learning
Data Governance – Practical Tips

- Locate a locked drawer/office on the ward for any paper records
  - Patient identifiers related to record IDs should stay here

- Dispose of any paper records in confidential waste

- Don’t share any patient information over email/Whatsapp
  - keep questions general!

- Only upload data from a hospital computer
REDCap

- 2 projects
  - Site and User Registration – Regional Leads
  - Data Collection – Collaborators

CASCADE PROJECT HUB

CASCADE is our 2021-2022 project CArdiovasCuAr outcomes after abDominal surgEry, run in collaboration with SUnBrg.

Postoperative cardiovascular complications (PCCs) are increasingly common after major non-cardiac surgery, ranging from arrhythmias, to life-threatening complications such as myocardial infarction and cardiac arrest. Mitigating risks of PCCs is important, since these complications are associated with increased morbidity and mortality. However, there is a little robust evidence regarding the risk factors, incidence and outcomes of patients with PCCs after abdominal surgery in the UK.

The primary aim of this study is to audit compliance to pre-, intra-, and postoperative audit standards in reducing risk of PCC.

Secondary aims are:
- To characterise rates of PCC following major abdominal surgery in the UK and Ireland
- To identify risk factors associated with PCC.
The tables below provide general dashboard information, such as a list of all users with access to this project, general project statistics, and upcoming calendar events (if any).

<table>
<thead>
<tr>
<th>Current Users (19)</th>
</tr>
</thead>
<tbody>
<tr>
<td>User</td>
</tr>
<tr>
<td>a_sgro</td>
</tr>
<tr>
<td>aturna.es</td>
</tr>
<tr>
<td>cas_a.hounat</td>
</tr>
<tr>
<td>cas_a.hounat_2</td>
</tr>
<tr>
<td>cas_a.khalil</td>
</tr>
<tr>
<td>cas_nahmad</td>
</tr>
<tr>
<td>cas_sshafi</td>
</tr>
<tr>
<td>cvarghese</td>
</tr>
<tr>
<td>dchaudhry</td>
</tr>
<tr>
<td>es3_uk_ariad</td>
</tr>
<tr>
<td>kmclean</td>
</tr>
<tr>
<td>okouli</td>
</tr>
<tr>
<td>pettitme</td>
</tr>
<tr>
<td>rbcolino</td>
</tr>
<tr>
<td>re_sb768</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Project Statistics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Records in project</td>
</tr>
<tr>
<td>Most recent activity</td>
</tr>
<tr>
<td>Space usage for docs</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Upcoming Calendar Events (next 7 days)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time</td>
</tr>
<tr>
<td>------</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>
Add / Edit Records

You may view an existing record/response by selecting it from the drop-down lists below. To create a new record/response, click the button below.

⚠️ NOTICE: This project is currently in Development status. **Real data should NOT be entered** until the project has been moved to Production status.

Total records: 10

<table>
<thead>
<tr>
<th>Choose an existing Record ID</th>
<th>-- select record --</th>
</tr>
</thead>
</table>

+ Add new record

Data Search

Choose a field to search
(excludes multiple choice fields)

<table>
<thead>
<tr>
<th>All fields</th>
</tr>
</thead>
</table>

Search query
Begin typing to search the project data, then click an
The grid below displays the form-by-form progress of data entered for the currently selected record. You may click on the colored status icons to access that form/event.

<table>
<thead>
<tr>
<th>Data Collection Instrument</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-operative</td>
<td>Green</td>
</tr>
<tr>
<td>Intra-operative</td>
<td>Red</td>
</tr>
<tr>
<td>Post-operative &amp; 30-day Follow-up</td>
<td>Red</td>
</tr>
</tbody>
</table>

Legend for status icons:
- Incomplete
- Incomplete (in progress)
- Unverified
- Complete
Welcome to the Data Collection project

Mini-team

Period & Speciality

Under which data collection period did this patient have surgery?

* must provide value

1 2 3 4 5

Which speciality mini-team recruited this patient?

* must provide value

- General surgery (upper GI, HPB and/or colorectal)
- Urology
- Gynecology
- Vascular
- Transplant
Pre-operative fields

Patient Demographics

Patient Age (Years)  Whole years at the time of operation
* must provide value

Patient Gender
* must provide value

Patient ASA grade  ASA grade descriptions found here
* must provide value

Patient Body Mass Index (BMI)
* must provide value

Patient smoking status
* must provide value
Pre-operative Management

Management of iron deficiency anaemia (IDA) (Tick off that apply)
- None
- Pre-operative iron supplementation (oral or IV)
- Tranexamic acid (TXA)
- RBC transfusion

Pre-operative treatment(s) (Tick off that apply)
- Aspirin
- ACE-Inhibitor or ARB
- Beta-blocker
- Alpha-2-agonist
- Rate-controlling calcium channel blocker (CCB)
- Dihydropyridine calcium channel blocker (DHP CCB)
- None

Was aspirin stopped?
- Yes, stopped preoperatively only
- Yes, stopped preoperatively and postoperatively
- No

Pre-operative therapeutic anticoagulation
- Low molecular weight heparin (LMWH)
- Warfarin
- Direct oral anticoagulants (DOACs)
- None

Haemoglobin (g/l)

Albumin (g/l)
<table>
<thead>
<tr>
<th>Form Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete?</td>
</tr>
<tr>
<td>Complete</td>
</tr>
</tbody>
</table>

**Buttons:**
- Save & Exit Form
- Save & ...
- -- Cancel --
Thank you!

CArdiovaSCuLAr outcomes after major abDominal surgEry

A student-led observational prospective audit of postoperative cardiovascular complication after major abdominal surgery