

Obstetric anaesthetics database, dashboard and information dissemination tool.

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GIG CYMRU NHS WALES
Bwrdd Iechyd Prifysgol Aneurin Bevan University Health Board

Introduction

Evidence of departmental audit is a key component of clinical governance. Aneurin Bevan Health Board has recently undergone a restructure of its obstetric service provision, centralising services from multiple sites.

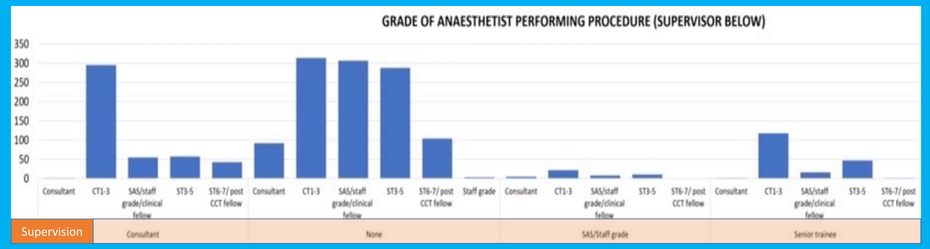
We have generated a new data capture process using Microsoft Excel and Microsoft Forms programmes for all anaesthetic procedures and follow up consultations.

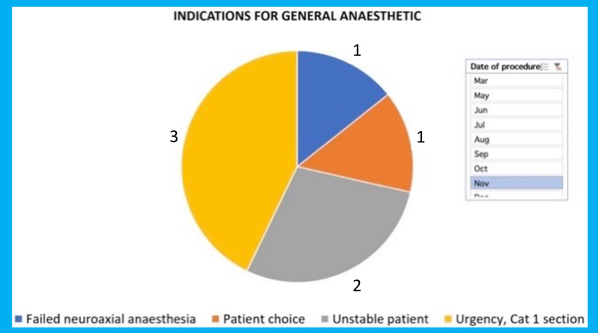
Methods

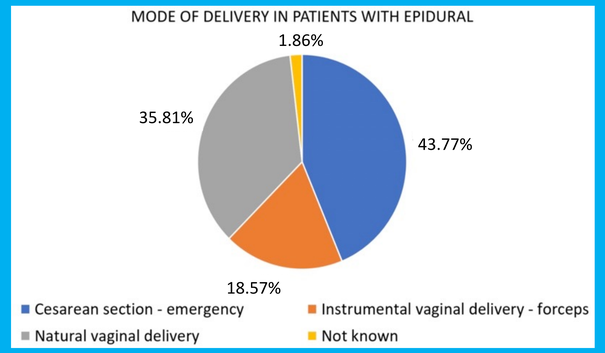
During the creation of this new database, we introduced QR codes to enable clinicians to directly access data capture forms to log procedures and follow ups. This method of data input has been well received and the data captured automatically populates a spreadsheet from which data analytics can be derived.

We have applied pivot tables and pivot charts to enable the department to quickly assess workload undertaken and outcomes generated by anaesthetic input in our maternity unit. This data is also represented as pie and bar charts which "live update" each time new data is added.

The utility of the data is further enhanced by the addition of "data slicers" which we have programmed into the pivot tables. This functionality allows clinicians to examine data from a specific month or year with a single button click.







Example

Indications for general anaesthetic November 2021 using time field selector.

Example

Modes of delivery for patients who had epidural for labour whole year.

Aims of the dashboard

Themes in local practice	Supervision levels
Identify areas for improvement	Track workload

Fields Analysed

- Indications for GA
- Mode of delivery for those who had an epidural.
- Types of procedure performed with anaesthetic intervention.
- Types of anaesthetic intervention.
- Levels of supervision.

Discussion

User friendly data input methods and interactive data analytics are a valuable resource to any department.

Rapid access to data with graphical representations of performance and workload is useful in ensuring clinical governance is maintained.

The dashboard allows the department to quickly identify areas where performance could improve, enabling us to target efforts to improve where needed.

Results

These charts are accessible to all within the department and form a dashboard of performance and activity.

The functionality lends ease of data analysis to those undertaking quality improvement projects and allows swift identification of areas of practice where improvement is needed.

The next phase of this project will be to survey opinion of which performance metrics the department wishes to include in a newsletter which will be disseminated to the department on a monthly basis, allowing for an overview performance and areas for improvement.