

Giving us immeasurably more data: what barcodes tell us about comorbidities, complications and consumables

A clinical study undertaken at Derby Teaching Hospitals NHS Foundation Trust by Dr Andrew Goddard – a consultant at Derby and Registrar at the Royal College of Physicians. The study looks into the benefits of using GS1 standards in colonoscopy and endoscopic retrograde cholangio-pancreatography procedures.

GS1 standards used to collect data on:

- Patient flow
- Comorbidities
- Staffing
- Equipment use (including consumables)
- Drug usage
- Complications

GS1 standards have helped bring resource management and patient management together – focussed on three C's

Comorbidities
Complications
Consumables



Under reporting of **complications**

Complications are more readily detected allowing safety improvements to be developed and assessed.

- In 3 months June-August 2015 **2** significant complications were recorded in endoscopy for all procedures
- Actual rates were around **21**



Comorbidities can be easily recorded to improve patient treatment and coding

Courtesy of Derby Teaching Hospitals NHS Foundation Trust

Consumables stock control improved and costs more easily identified

Cost of Consumables per procedure

Diagnostic Colonoscopy

£20.41

Therapeutic Colonoscopy

£37.31

Diagnostic ERCP

£319.13

Intermediate Therapeutic ERCP

£338.28

Major Therapeutic ERCP

£461.80



“The use of GS1 standards has given us immeasurably more data than was available before – this has driven evidence-based discussion about our practices and how we can deliver better quality care that results in improved clinical productivity”

Dr Andrew Goddard, Registrar, Royal College of Physicians