

leading by example



NHS Improvement's Carter-commissioned Model Hospital is aiming to support productivity improvement now while also driving an increasing focus on data quality. Steve Brown reports

The NHS has long been condemned as being data rich, but information poor. And managers have frequently complained about the time-consuming returns they submit without the contained data being put to any apparent useful purpose. The new Model Hospital published by NHS Improvement is trying address both these complaints.

Actually 'new' isn't quite right. Born out of a recommendation from the Carter report on productivity in acute providers, the Model Hospital has in fact been up and running in prototype format since March 2016. However, April sees it 'launched', albeit without fanfare, in its first iteration – making good on a specific Carter-set deadline.

Lord Carter's idea was to help NHS providers – acute providers in the first instance – improve productivity across all their frontline and back-office services by identifying 'what good looks like'.

More specifically, the Model Hospital project would show how different hospitals performed across a series of service and function specific metrics – helping organisations to compare their productivity, quality and responsiveness with their peers, identify best practice and find opportunities to improve value.

There are already examples of such portals around the globe – a cost and activity information system in the Australian state of New South Wales is well regarded (see *Healthcare Finance* July/August 2016, page 23). And the English system would in some ways be even more ambitious, eventually covering all service lines and based on comprehensive patient-level costings.

There are longer term plans – again to comply with Carter recommendations – for the Model Hospital to be used as the basis for an integrated performance framework. But Emmi Poteliakhoff, NHS Improvement's director of Model Hospital and analytics, says the focus of the Model Hospital is to support hospitals, not judge them.

'The Model Hospital is about presenting data and information to people to aid understanding and enable them to compare against other organisations for their own learning,' she says. 'It is about improvement rather than stick waving.'

She insists the model is not about 'naming and shaming', but there are no apologies for building the new Model Hospital on a foundation of almost

complete transparency. Although the public won't be able to see the Model Hospital data in this development phase, anyone working in NHS providers can be given access – with non-executive directors a particular target group. Trusts will be readily identifiable and their relative performance clearly visible in graphical displays. The system also uses red and green colours so that trusts can quickly see which quartile their performance puts them in.

On accessing the portal, there are five main ways into the Model Hospital. A board-level oversight 'lens' is structured to align with the single oversight framework, with 'compartments' for:

- Quality of care
- Finance and use of resources
- Operational performance
- Strategic change
- Leadership and improvement

Compartments of more detailed metrics are then viewed through four further lenses covering: clinical service lines; operational activities; people; and patient services. It is a rapidly expanding database. The compartments initially released as part of the prototype have already been supplemented and there are plans for major expansion of the clinical service lines covered, in particular to support the expanding coverage of the *Getting it right first time* initiative.

In the April release, the Model Hospital has 34 compartments live (in addition to the board level dashboard) including almost 2,000 metrics.

The Carter report identified staff costs (£34bn for acute trusts) as 'the biggest opportunity' for productivity and efficiency savings – contributing about £3bn (with medicines and diagnostics) to Carter's overall £5bn savings target. To support this, a workforce analysis compartment provides detailed analysis of



To register for access to the Model Hospital visit <https://model.nhs.uk>



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NHS Improvement

compartments, for example, have all been accessed more than 1,200 times since the start of the year. But the value of the resource will grow as data improves.

A lot of the finance data is taken from audited accounts and so is understandably viewed as robust. These figures need to be adjusted to reflect the fact that the total expenditure reported in the accounts is different from the quantum included in reference costs.

The electronic staff record is also widely used by the Model Hospital as a data source. This is primarily a payroll system, not a data collection system. And while it is extremely reliable at the aggregate level, coding at a more detailed level can be less consistent. So, while a trust might accurately have its nurse numbers and bandings accurately recorded for the organisation as a whole, it may not have these nurses accurately assigned to different service lines. ‘By allowing trusts to see the data and make use of it for benchmarking and learning, it will provide an impetus to standardise the way they code,’ says Ms Poteliakhoff.

Similarly NHS Improvement hopes the greater visibility of data will encourage providers to review the quality and completeness or other returns – to joint registries for example.

Most of the data in the system is already produced or submitted by trusts as part of regular returns. However, the Model Hospital plays this back to trusts alongside how other trusts – or a self-selected peer group – are performing.

So a trust may have suspected that its skill mix among speech and language therapists was too high or too low, but it would not have had comparative data to back this up or challenge existing performance.

Some metrics have required new data collections. This has been the case for both pathology (collecting data about the costs of different

types of test) and corporate services (using a more sophisticated cost analysis than the pay-only estimates used in the Carter report). This approach will be used where necessary so that useful metrics are included, but also recognising that the service cannot support a major increase in data collections.

A number of clinical service compartments and corporate services should come on line from mid-April.

Compartments aligning with the new GIRFT specialties will include subsets of the metrics identified for detailed use by the programme.

Growing interest

Even while still in its prototype stage the Model Hospital has developed a reasonable audience with some 3,350 registered users and more than 10,000 page ‘hits’ a week. Within this NHS Improvement has identified more than 120 ‘power users’ who have returned to the tool at least 25 times – with the top 10 users logging in on average 160 times each. More than a quarter of active users have logged in at least 10 times.

So there is justification for saying users are doing more than satisfying their curiosity. Activity to date suggests that senior finance professionals are prominent in this user group.

The Model Hospital is an ambitious project. Few people argue against the theory of sharing robust data on wide-ranging activities to support decision-making and service improvement. But it is often in practice where the enthusiasm wanes.

This is a work in progress. It will help organisations to identify opportunities to improve – or at least ask questions. But it also provides a statement of intent and puts the NHS on a course for finally turning its copious amounts of data into real information and intelligence. ◉

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