Title:
Rationalising Data Use for General Practice: A Missed Opportunity?

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I. Background

Practices and practitioners are required to produce bespoke reports using data for an ever-increasing range of purposes, including, amongst others, appraisals, contractual monitoring, quality assurance, and performance management by several bodies, without regard to unnecessary duplication of effort. Examples include producing numerous individual patient care plans for Clinical Commissioning Groups (CCGs), a minimum of one completed audit cycle every five years for each general practitioner (GP) as part of General Medical Council revalidation, and responses to the 130 questions of a Care Quality Commission (CQC) inspection. This huge non-clinical workload adds stress to practices and may be contributing to the current GP recruitment and retention crisis.

The priorities of data use cannot be solely monitoring and performance management; to improve population outcomes (e.g. premature mortality, morbidity, hospital admissions, time lost from work), we argue that general practice must also use data to strengthen its essential public health role. Local populations’ characteristics should be examined to better understand both health needs and the effect of interventions on outcomes, beyond the limited scope of the Quality and Outcomes Framework (QOF). This requires:

- The availability of timely accurate information on practice populations’ characteristics and outcomes, to enable practices (individually or as groups) to define local health care needs;
- To address these needs, the development of effective practice policies that target all patients who might benefit, including early interventions to prevent or delay morbidity; and
- Monitoring the implementation and effect of these policies, using process, intermediate and final outcome data.

Although this paper is considering mainly data extraction, interpretation and presentation, a distinction needs to be made between these processes and the processes of data collection and entry. The designers of information systems need to support users to enter data efficiently and accurately onto the patient record. The care.data programme, led by NHS England and the Health and Social Care Information Centre aims to ‘bring together securely, health and social care information from different settings’. The aims include helping researchers develop new treatments and improving the monitoring of performance. However, the programme ran into controversy about data sharing, due to consenting issues. It has been delayed since early 2014, and is currently being piloted by CCGs in 4 areas on England, with reporting awaited.

II. The role of general practice in improving outcomes

Population morbidity and mortality are heavily influenced by demographic and lifestyle factors, which can vary considerably between different practice populations. Thus, practices will need to recognise these and tailor accordingly their policies and activities (both clinical and organisational) to ensure maximum effectiveness. To minimise inequity of services, practices also need to understand and address the needs of particular groups (e.g. those with sensory impairment, homelessness, limited English) that affect access and use of services.
In recent years, general practice has concentrated on the management of the growing numbers of people with long-term conditions. QOF has succeeded in improving the care of people with common chronic conditions and in helping to limit hospital admissions for ambulatory care sensitive conditions. However, studies to date have not provided clear-cut evidence that QOF has had a beneficial effect on premature population mortality\(^4\). It is time to explore other ways of reducing mortality. Identifying and managing health problems earlier in their course, by exploiting the potential within consultations for case finding and primary prevention, may prevent or delay the progression to chronic comorbidity. Prevention activities should be tailored to the needs of local populations. However, responsiveness to population characteristics is not well developed amongst practices\(^5\).

One of the most powerful measures of general practice performance to predict premature mortality (and mortality from coronary heart disease and stroke) is the proportion of patients recorded on practice hypertension registers\(^6,7\), since hypertension is widely under-detected (data from the Health Survey for England show that approximately only 60% of adults with raised blood pressure have a diagnosis of hypertension\(^8\)). Levels of detection of other conditions are also below the expected population prevalence, e.g. chronic kidney disease, chronic obstructive pulmonary disease, non-diabetic hyperglycaemia, dementia, and depression\(^9-11\).

### III. Proposals

#### A. Principles

We suggest the following principles are considered by policy makers, in the context of a practical framework, when deciding how best to support practices, either individually or in ‘neighbourhood’ groups, to improve population outcomes.

1. Enable practices to find and interpret data relevant to understanding better the health needs of their population.

2. To avoid exacerbating current workload pressures, no unnecessary data should be collected. The designers of patient records need to retain the confidence of patients, to maximise the ease and accuracy of data entry, and to streamline data extraction and reporting. The agencies demanding performance data from practices should collaborate to define a parsimonious common dataset that will fulfil their collective needs, and minimise preparation time and duplications.

3. Use data rationally to help identify opportunities for improving outcomes, and to develop and implement policies responsive to identified population needs, with simple well-defined objectives.

4. Maximise engagement by ensuring that these activities are ‘owned’ by practices, and tailored to their needs and capabilities. Prioritisation decisions should rest locally within the context of regulatory frameworks.

#### B. Framework
A likely sequence of steps in which practices (individually or as groups) might use data to their maximum effect:

1. To identify patient groups with the greatest need for health improvement, local profiling can combine data on population markers to small area levels of postcode sectors with patient level data collected by practices. Data chosen might cover demography (e.g. age structure, ethnicity), socio-economic profiles (e.g. deprivation, barriers to healthcare access) and health related variables (e.g. risk factor prevalence, estimates of people with long-term conditions, levels of multi-morbidity). This profiling also needs to include comprehensive recording of individual patient characteristics (obesity, alcohol, exercise) and specific needs (e.g. non-English speaking, learning disabilities, homelessness). Since data are available from many sources (e.g. My NHS, CQC, Primary Care Web Tool, HSCIC, Public Health England GP Profiles, NHS England GP Patient Survey), practices will need to be provided either with tools to navigate these sources or with newly-developed software packages able to access the full range of required data. Another option might be to expand, to make more user-friendly, and to promote an existing data source (e.g. myNHS).

2. Practices should better understand their current activities and capacity, by interpreting accurately internal management data (e.g. appointments, budgets, prescribing safety indicators, indicators on diagnostic delay) and data already presented for external monitoring (e.g. QOF, CCGs, CQC).

3. Data management should facilitate the development and implementation of locality-sensitive action plans, by knowing population needs and by locating the greatest potential for achievable health improvements (replacing less effective or redundant activities). Practices need to recognise how the mechanisms of primary care could be used to improve population health, e.g. that detecting more hypertension reduces mortality rates. Action plans’ objectives should be ‘SMART’ (specific, measurable, achievable, results-focused, and time-bound), with accurate assessments of required resources (e.g. staff time, equipment, space, skill mix). Implementing a number of simple plans that each achieves marginal gains may be both feasible and collectively beneficial.

4. The amalgamated monitoring mechanisms must be robust, transparent enough to allow appropriate constructive outside scrutiny, and sufficiently sensitive to detect changes in practice performance. Ideally, practices themselves should run monitoring, refining and building upon existing processes with, if needed, additional complementary components, but omitting superfluous or inessential elements.

5. Information systems need to be interactive and adjustable to inform practices’ ability to respond to changes both in the local population (e.g. demographics) and internally (e.g. staff numbers, skill mix).

IV. Conclusion

Effective data management should inform high quality primary care. Today, we are suffering from too much data reporting and too little data-driven health care planning at practice/neighbourhood level. It is time for the various organisations and policy makers that demand data from practices to pause for reflection; they need to facilitate data use that will identify local populations’ health
needs, support practices in developing policies tailored to these needs and aimed at improving outcomes, and agree a parsimonious common dataset for monitoring.

Word count: 1,335
V. Notes

Provenance

This article is freely submitted and based on our submission in August 2015 to a Health Foundation consultation, in which it was asked by the Department of Health to review indicators of the quality of general practice in England, and to look at how they could be made better to support improvements to care.

Competing interests

Richard Baker is a recipient of an NIHR senior investigator award. The views in this paper do not necessarily reflect those of the NIHR of the Department of Health.
VI. References


