Rigorous follow-up systems for abnormal results are essential to improve health outcomes for Aboriginal and Torres Strait Islander people

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There is emerging evidence that taking basic measurements and screening of patients are done relatively well (such as taking a patient’s blood pressure or ordering tests), but the adequacy of follow up is less well-documented in patient records (Bailie et al. 2014, 2017). Failure to follow up abnormal test results is an important patient safety issue and requires urgent attention. Improving follow up of abnormal results has been identified as a top priority by healthcare practitioners, managers and policymakers working in Indigenous primary healthcare services (PHS) (Matthews et al. 2015; Bailie et al. 2016, 2017).

In a recent study, we presented aggregated continuous quality improvement data from 123 Indigenous PHS (6523 patient records) for chronic illness care and asked stakeholders in diverse roles and organisations to identify what they regarded as the priority evidence-practice gaps (Matthews et al. 2015). Data showed that some aspects of chronic illness care were being provided and documented at high levels by health centres, such as measurement of weight, blood pressure, glycated haemoglobin (HbA1c) and ordering of tests (Matthews et al. 2015). However, PHS performance in many aspects of care is suboptimal, with wide variation between health centres. The highest ranked priority, as identified by over 200 stakeholders, was to improve the delivery and documentation of follow-up care when there is an abnormal test result (notably HbA1c, total cholesterol : high-density lipoprotein (HDL) ratio, and blood pressure) (Matthews et al. 2015). As a case-in-point, we present findings for follow up of abnormal blood pressure results below.

Extent of failure to follow up abnormal blood pressure results

There was wide variation between PHS in the documented follow-up actions for patients diagnosed with coronary heart disease or type 2 diabetes with an abnormal blood pressure (range 0–100\%) and some PHS showing no record of delivering follow up (Fig. 1). Records showed the most recent blood pressure reading as abnormal for \~50\% of patients with these conditions. Of these, only \~50\% of patients had a documented follow-up plan (Fig. 1).

What will it take to improve follow up?

Consistent gaps in the delivery of care across many PHS are due to failures and weaknesses at various levels of the health system (Ferlie and Shortell 2001). Factors associated with failure to follow up abnormal results are complex and interrelated. The process to ensure that a series of actions occur following identification of a problem requires a series of steps, with the patient understanding what they need to do, a staff member being able to communicate this effectively, the clinical information system being able to flag the follow up (without overwhelming the team with multiple recalls) and PHS staff able to recognise and respond appropriately through recall or at the next patient contact. In Indigenous PHS settings, high staff turnover and associated limited knowledge of patients’ needs and circumstances can further complicate these steps.

Improving follow up of abnormal results requires action and strategies that are multifaceted and implemented at health centre, community, patient and policy levels. The design and implementation of Health Care Homes provides opportunities to improve processes for engaged and consistent care (Jackson and Hambleton 2017), including follow up of abnormal results for Indigenous people.

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Ethics approval

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Conflicts of interest

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