

[10.1071/PY23123](https://doi.org/10.1071/PY23123)

*Australian Journal of Primary Health*

### Supplementary Material

#### **The evaluation of the Plan–Do–Study–Act cycles for a healthcare quality improvement intervention in primary care**

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**Supplementary Material**

**Supplementary Table S1.** Practices' response to the PDSA sections

<b>PDSA Sections</b>	<b>PDSA Sub-sections</b>	<b>Practices' Response</b>
<b>Plan</b>	Goal	To have PenCat4 installed into our Clinic on 2 computers so we can participate in data collection for QUEL Heart Disease Collaborative before the 15th November 2019
	Idea	Liase with both Quel heart disease collaborative staff and our Computer Tech team to have PenCat installed.
	Measure	PenCat4 will be installed on 2 computers by 15th November 2019
	Plan	What: PenCat installed When: Week starting 11th November - 15th November Prediction: This program will be installed by end of 15th November
<b>Do</b>		The Pencil tool was downloaded successfully to our Clinic without any issues.
<b>Study</b>		I have started to explore Pencil and will need to do a collect of data after consultation with Practice Manager when he returns from leave on Monday 18th November.
<b>Act</b>		I will plan to do a collect of data on Monday 18th November and start to review data to plan where which area we need to focus on first.

**Supplementary Table S2.** Finalised content quality scoring indicator

<b>PDSA Section</b>	<b>Methodological Criteria</b>		<b>Score</b>
<b>Plan</b>	Objective	No description	0
		Any description of objective	1
	Predictions of the answers to the questions	No description	0
		Vague description of predictions	1
		Clear description of predictions	2
		Plan to carry out the cycle	No description
		Vague description of plan	1
		Clear description of plan	2
<b>Do</b>	Carry out the plan	Plan not carried out	0
		Plan attempted or completed	1
	Documentation of problems or unexpected situations	No documentation	0
		Vague documentation of occurrence or non-occurrence of problems	1
		Clear documentation of occurrence or non-occurrence of problems	2
		Looked at data as part of carrying out plan	No
		Yes or Not Applicable	1
	<b>Study</b>	Compare data to predictions or plans	Documented observations do not correspond to the predictions or plans
Documented observations correspond to the predictions or plans			1
Summary of what		No comments	0

	was learned		
		Vague comments to summarise what was learned	1
		Clear comments to summarise and reflect on what was learned	2
<b>Act</b>	Future actions or changes to be made were postulated	No description	0
		Vague description of future actions or changes to be made	1
		Clear description of future actions or actionable changes to be made	2
	Iteration of performed PDSA cycle planned or indicated to be needed	No description	0
		Any description of iteration planned or indicated to be needed	1
<b>Additional Questions</b>	Accuracy	At least two of the criteria of PDSA were reported back under the incorrect section	0
		One of the criteria of PDSA was reported back under the incorrect section	1
		All the criteria of the PDSA were reported back under the correct section	2
	This particular PDSA cycle is an iteration of a previous cycle	No	0
		Yes	1