



# Helping your registrar plan their learning in general practice



## About this guide

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The transition from the hospital setting to general practice is a significant challenge for many new GP registrars. General practice is a unique clinical setting, characterised by a diverse scope of practice, comprehensiveness of care, chronic disease management and continuity of care. Additionally, new GP registrars face relative independence of decision-making, time pressures, clinical uncertainty, unfamiliar practice systems, and financial and billing issues.

The scope of possible learning needs is therefore vast. Not surprisingly, it can be a daunting prospect for the GP registrar to consider 'What do I need to learn?'

While learning is ultimately the responsibility of the registrar, the GP supervisor has an important role to help their registrar identify, clarify, prioritise and address learning needs. This activity will hereafter be called 'planning learning'.

Planning learning is an ongoing, iterative process for the registrar. Early in the placement, it is more likely to be a deliberate, structured activity based on specific resources and tools. During the placement, it usually occurs in a more ad hoc and opportunistic manner, based on patient encounters, formative assessment and feedback. Planning learning for exam preparation is often a more formal process guided by the curriculum and exam format. At all stages, planning learning may be documented, formally or informally, or not.

This guide has been developed to support the GP supervisor to help their registrar plan their learning. It should be read in conjunction with the GPSA ['Practice-based Teaching in General Practice'](#) guide.

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Please note that all references to general practice in this resource are intended to apply equally to both the urban and rural context of the GP medical speciality such that use of the term "GP" is taken to mean "RG" throughout.

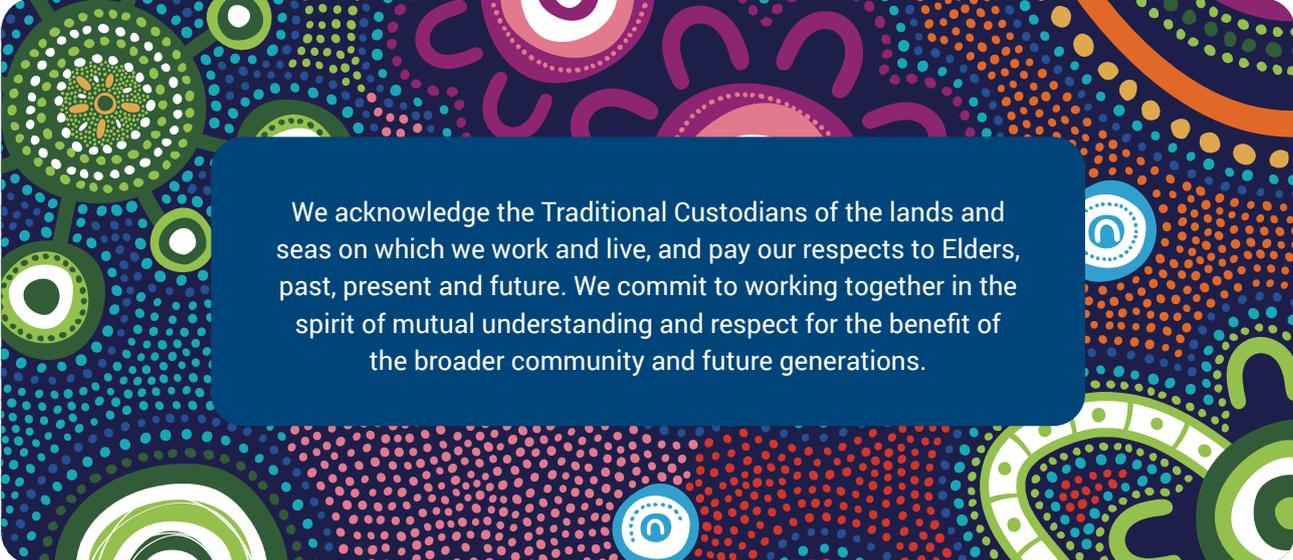
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We acknowledge the Traditional Custodians of the lands and seas on which we work and live, and pay our respects to Elders, past, present and future. We commit to working together in the spirit of mutual understanding and respect for the benefit of the broader community and future generations.



# Introduction

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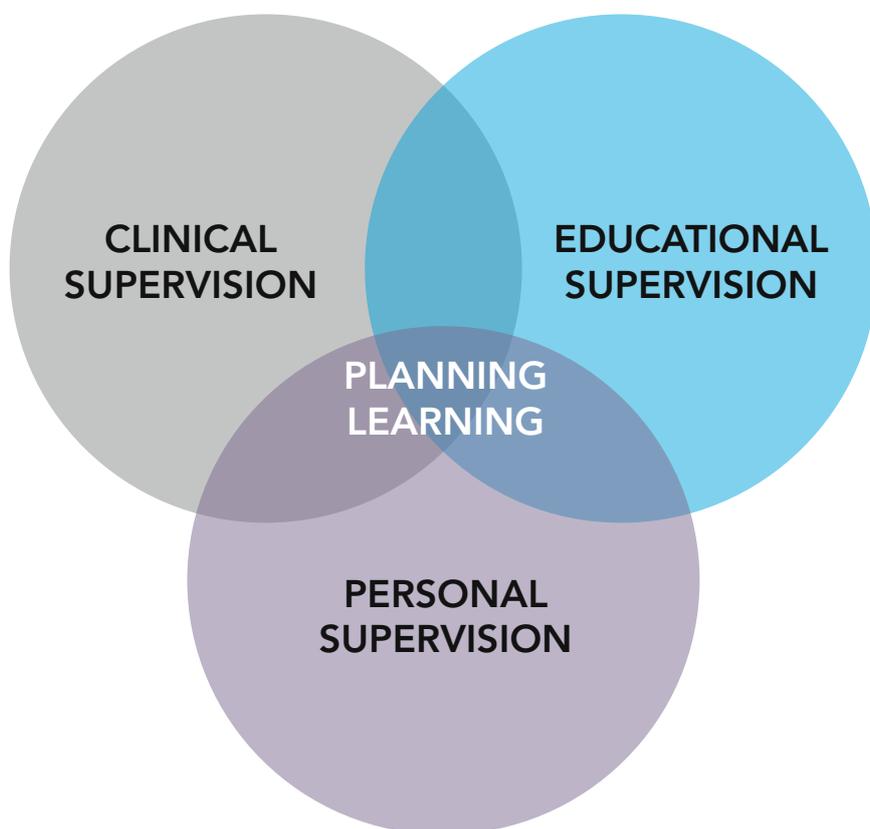
The GP supervisor has been defined as 'a general practitioner who establishes and maintains an educational alliance that supports the clinical, educational and personal development of a resident.'<sup>1</sup>

In practical terms, this means that supervision in general practice has three core aspects:

1. Clinical supervision, ensuring that the patient is safe.
2. Educational supervision, ensuring the registrar is learning.
3. Personal supervision, ensuring that the registrar is 'OK'.

While planning learning might seem to be exclusively an educational supervision task, it also has a direct impact on clinical supervision, patient safety and registrar wellbeing.

Figure 1. Planning learning sits at the intersection of clinical, educational and personal supervision





# Useful concepts for effective learning planning

There are a number of concepts that are helpful to understand and apply when supporting a registrar plan their learning.

## Domains of competence

Blooms taxonomy of educational objectives defines three domains of competence, namely cognitive (knowledge), psychomotor (skills), and affective (attitudes).<sup>2</sup> This provides a useful framework for planning learning with registrars, namely:

- What knowledge do I want the registrar to have?
- What skills do I want the registrar to have?
- What attitudes do I want the registrar to hold?

## Learning needs, self-assessment and the Johari window

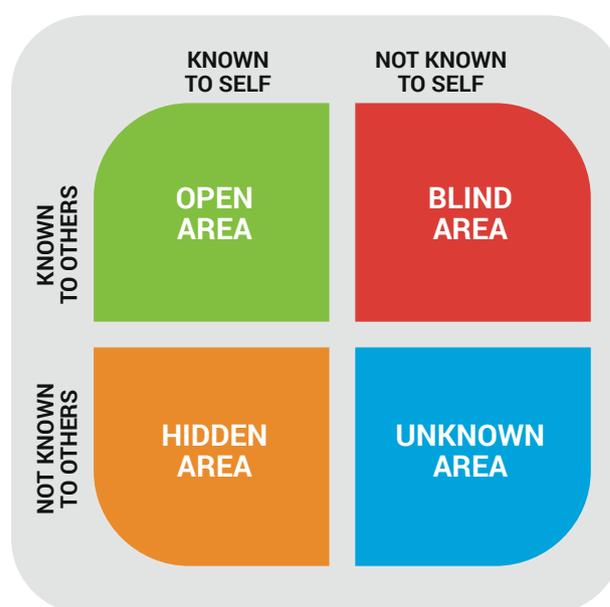
The concept of learning needs arises from adult learning theory, whereby the learner, through a process of reflection, identifies deficiencies in competence, with the aim of meeting these needs through deliberate action.<sup>3</sup>

The literature distinguishes between 'perceived' learning needs, based on self-assessment, and 'true' learning needs.<sup>4</sup> Evidence suggests that doctors have a limited ability to accurately self-assess.<sup>5</sup> The risk of relying on self-assessment is that perceived needs are unlikely to reflect the true breadth of learning required for competency. Identification of 'true' learning needs requires triangulation of self-assessment with information from multiple other sources.

The concept of the Johari window can be useful to consider perceived and true learning needs.<sup>6</sup> It was initially developed as a graphical representation of interpersonal awareness, and has since been adapted to medical education. The supervisor can play a critical role in helping registrars uncover 'unknown unknowns'; those learning needs that the

registrar is unaware of. Common unknown learning needs for GP registrars include skills like patient-centred care, professionalism and managing uncertainty.

Figure 2. The Johari Window<sup>6</sup>





Another way of thinking about this is the learning needs 'iceberg', where the unknowns lie below the surface.

Figure 3. The learning needs iceberg



### Learning 'wants' versus 'needs'

Another way of conceptualising this is to differentiate learning 'wants' from learning 'needs'. Learning 'wants' are what the registrar **wants** to learn – driven by what they are seeing in practice, identified knowledge and skill gaps, and their interests. Learning needs, on the other hand, are what the registrar needs to learn – dictated by the broader curriculum, the **needs** of the practice and community, and the exams. Asking the registrar 'What do you want to learn, and what do you need to learn?' can help differentiate 'wants' from 'needs', and additionally uncover their motivations to learn and areas that may choose to avoid.

### Learning needs identification

Learning needs identification is the process of using tools and methods to identify the learning needs of the registrar, both known and unknown. However, it is artificial to consider learning needs identification (and planning learning) as an activity separate from assessment, feedback and teaching, as they are so interconnected, and the available tools cross all aspects of a supervisor's role. Tools and methods used in learning needs identification are described later in this guide.

A helpful parallel can be made between using tools for learning needs identification and testing for disease in clinical practice. Tools can be used to identify learning needs in a registrar without any specific concerns, as a GP would 'screen' an asymptomatic patient. On the other hand, tools can be used to help identify specific learning needs and plan learning in a registrar who is struggling for any reason, equivalent to using appropriate tests to 'investigate' a patient with symptoms. This is elaborated on the greater depth in the [GPsA Guide to the Registrar at Risk](#).



## Learning plans

A learning plan is a formal document created to help a registrar better reflect upon and structure their learning. It is based upon self-reflection and other assessments of knowledge and skills. Ideally, it also specifies which learning methods and activities need to be undertaken, and a record of satisfactory completion. Formal learning plans are best developed and monitored jointly by the registrar and supervisor.

Over recent years, there has been a move away from formal learning plans to the more dynamic process of planning learning on an ongoing basis. Learning plans have been found to be perceived as having little value for registrars - a *'bureaucratic hurdle serving as a distraction rather than an aid to learning'*.<sup>7</sup> GPSA does not strongly endorse the development of a formal learning plan, but supports the registrar capturing and documenting learning needs and discussing these with their supervisor.

## Reflective practice

Reflection in medical education has been defined as *'a metacognitive process that occurs before, during and after situations with the purpose of developing greater understanding of both the self and the situation so that future encounters with the situation are informed from previous encounters'*.<sup>8</sup> Reflection is critical to identifying learning needs, but also to effective learning. Kolb described a four-stage learning cycle of reflective practice based on experiential learning<sup>9</sup> (see figure 4).

## Signposting

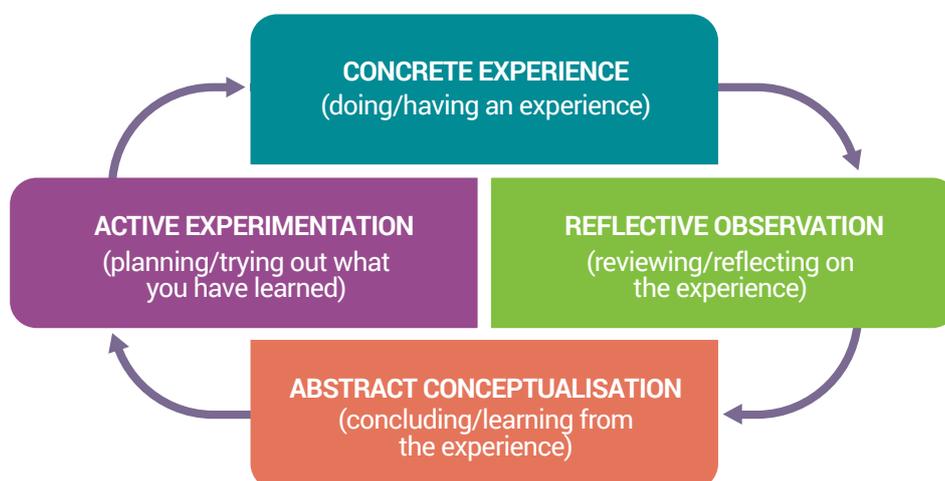
Another useful concept is the notion of 'signposting'; making explicit when a learning need arises. This involves making clear records of learning needs that arise and making sure they are addressed. This may occur in formal teaching activities, formative assessments, or ad hoc supervision.

### TOP TIPS

#### EFFECTIVE LEARNING PLANNING

- Differentiate registrar learning needs into knowledge, skills and attitudes.
- Be aware of the pitfalls of self-assessment.
- Consider 'perceived' versus 'true' learning needs, and the unknown unknowns.
- Consider using tools for learning needs identification as you would use tests in clinical practice – for screening or diagnosing.
- Discuss the critical role of self-reflection.
- Signpost learning needs as they arise.
- Use a framework for assessing learning needs like the 4R tool (see on page 8).

Figure 4. Kolb's experiential learning cycle<sup>9</sup>



## The 4R framework of learning needs identification

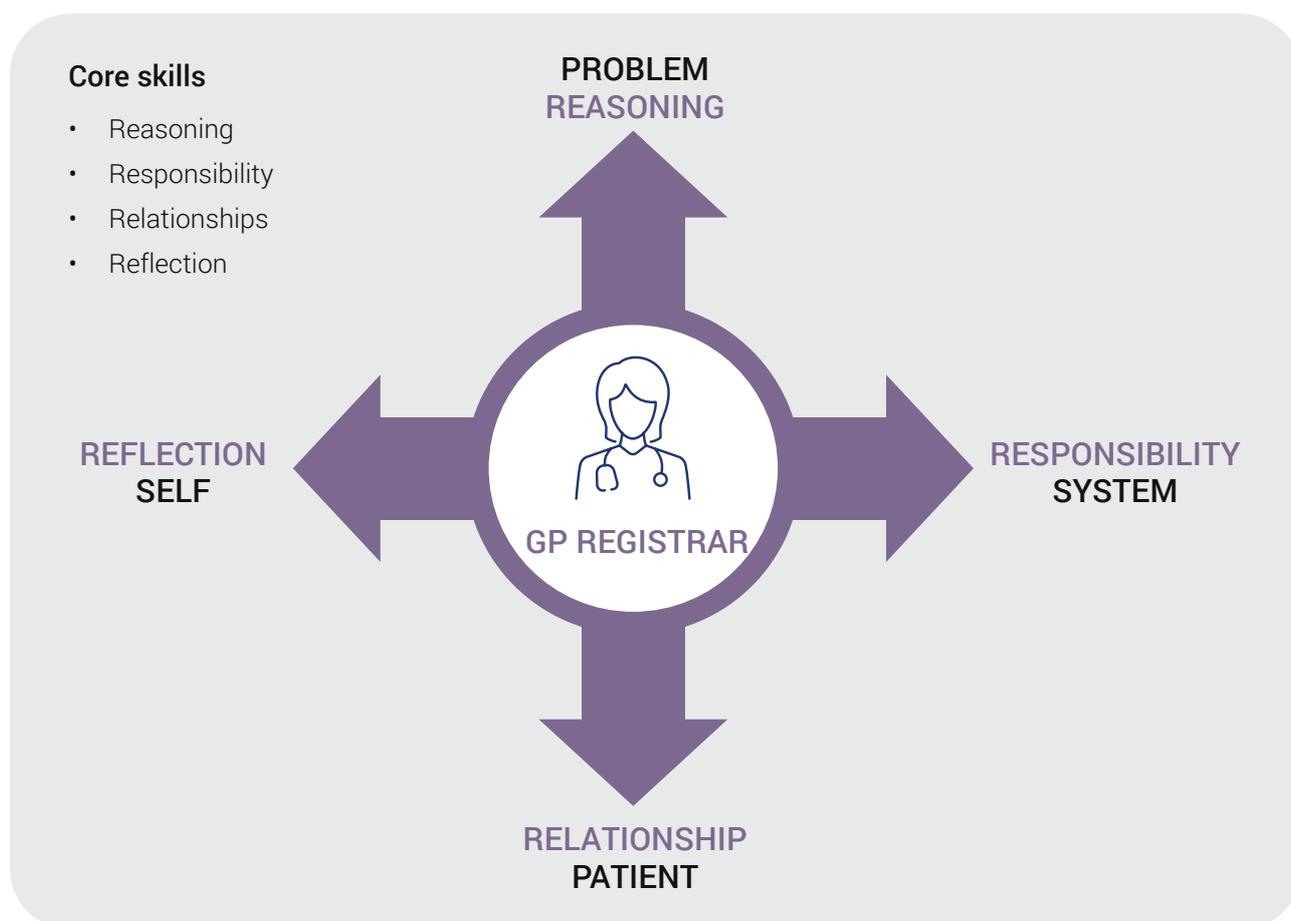
As discussed, the supervisor plays a key role in helping their registrar identify learning needs as part of planning learning. It is commonly observed that identified registrar learning needs are primarily (or exclusively) clinical, and the other domains of practice are not considered, or overlooked. These include areas such as professionalism, communication skills, and organisational skills.

GPSA have developed the 4R framework to encourage a broader approach to learning needs identification. The 4R framework is based on the

concept that the GP engages with four 'spheres' in their day-to-day practice, namely the patient, the problem, the system, and themselves. This provides a useful framework for exploring and identifying learning needs, characterised by the '4Rs':

1. Relating to the patient.
2. Reasoning the problem.
3. Being responsible to the system.
4. Self-reflecting.

Figure 5. The 4R framework of learning needs identification





### **Reasoning – ‘How well does the registrar engage with the problem?’**

Perhaps the most fundamental skill of the competent GP is being able to effectively reason. Clinical reasoning encompasses skills in data gathering (history taking and physical examination), data synthesis and interpretation, generation and prioritisation of a differential diagnosis, rational use of investigations, rational prescribing, formulating a management plan, and evidence-based medicine. It also includes the ability to manage uncertainty.

### **Responsibility – ‘How well does the registrar engage with the system?’**

GPs engage with the ‘system’ in a number of ways, both within and beyond the consultation room – navigating the consultation, patient advocacy, interacting with colleagues, referring for investigations and specialist care, billing Medicare, documentation, writing medicolegal reports, certifying sickness, etc. There are a range of responsibilities associated with this, most prominently the need to maintain a high standard of professional practice.

### **Relationships – ‘How well does the registrar engage with the patient?’**

Effective communication and being able to relate to patients are essential skills in general practice. There is strong evidence linking good communication with improved outcomes for both patients and doctors.<sup>10</sup> Building a relationship requires sound skills in communication, patient-centred care, and cultural competence.

### **Reflection – ‘How well does the registrar engage with themselves?’**

Reflective practice can improve skills in professionalism and clinical reasoning, and lead to better patient management. Effective reflection also relates to lifelong learning and self-care.





# Methods and tools to help identify learning needs

Methods and tools to identify learning needs can be categorised in a few different ways, including:

1. What type?
2. Which tool for which aspect of practice?
3. Which tool for which registrar?
4. Which tool for which stage of training?

## 1. What type of method/tool?

The tools used to identify learning needs can be classified by type, including review of past experience, registrar self-assessment, formative assessment, formal teaching and objective assessments.

### Past experience

The most fundamental way to gauge a registrar's learning needs is to ask them about their past experience and qualifications. This can be done informally or as part of a more formal assessment using a tool like the [supervisor assessment tool for IMG registrars](#).

### Registrar self-assessment

Self-assessment tools are good for identifying and clarifying 'known knowns' and 'known unknowns' quadrants of the Johari window (see page 5). While self-assessment is known to be a flawed method, it can provide a good starting point for discussion. There are a range of self-assessment tools, as below.

<b>GPSA 4R self-assessment tool</b>	The GPSA <b>4R self-assessment tool</b> ( <a href="#">see appendix 1</a> ) was developed by GPSA as a tool for registrars to reflect on their perceived competence across the breadth of domains. It aligns to the 4R framework – relating with patients, reasoning the problem, responsibility to the system and self-reflecting.
<b>Clinical self-assessment tool</b>	Clinical self-assessment tools are more specific and allow registrar to reflect on their perceived confidence and /or competence across a range of clinical topic areas. One well known tool for this purpose is the <b><a href="#">WentWest Confidence Self-Assessment Grid</a></b> .
<b>High risk areas</b>	There are a number of specific clinical presentations that are classified as 'high risk' on the basis of their potential for patient harm. Such a list can be used to identify critical learning needs that may impact on patient safety. Recently, a <b><a href="#">Call for Help List</a></b> was published which is an excellent tool for this purpose. <sup>11</sup> and <a href="#">FAQ resource</a> .



<b>Learning log</b>	Most learning needs are generated from patient exposure, where the registrar recognises a knowledge or skill gap during or after the consultation. Learning logs are a mechanism to capture identified learning needs as they are generated. <b>Learning logs</b> can be anything from an Excel spreadsheet to something as simple as an exercise book ('Post It notes' are not ideal!).
<b>Discomfort Log/ PUNS and DENS</b>	<b>Discomfort logs</b> , comprising PUNS (patient unmet needs) and DENS (doctor educational needs) are commonly used in the UK. The registrar records aspects of their practice that cause them discomfort, including any negative emotions experienced during the day. This can serve as a reflective tool and as the basis for discussion with the supervisor.

## Formative assessment

There are a range of formative assessment tools and methods commonly used in GP training that can effectively identify learning needs.

<b>Direct observation (DO)</b>	There is perhaps no better way for a GP supervisor to assess their registrar's clinical, consultation and communication skills than by directly observing their interactions with patients. Many tools exist for this purpose, including the <a href="#">RCGP (UK) consultation observation tool (COT)</a> . One commonly used tool to assess a registrar's communication skills more specifically is the <b><a href="#">Kalamazoo consensus statement</a></b> .
<b>Case discussion</b>	<b>Random case analysis (RCA)</b> is a form of case discussion that allows identification and exploration of areas where the registrar either does not recognise a clinical knowledge gap ('unconscious incompetence'), or those they wish to avoid ('conscious incompetence') <sup>13</sup> . This can be enhanced by asking hypothetical questions, so-called ' <i>what ifs?</i> '. As a result, RCA is a particularly effective method to identify unknown learning needs. For more information read the article <a href="#">here</a> .  Other methods of case discussion which can highlight specific learning needs are <b>test result audit and feedback (TRAFk)</b> <sup>14</sup> . (Note this is not a tool but research with more information) or inbox review <sup>14</sup> , for rational test ordering) and <b>critical incident review</b> , including 'near miss' discussions. Another powerful method is to use role play of <b>simulated cases</b> , covering key areas where registrars are known to commonly struggle e.g. undifferentiated presentations, challenging consultations, professionalism issues.
<b>Multi source feedback (MSF)</b>	Feedback from colleagues and patients has been well-established in personal development planning for several years. More recently, MSF has started to incorporate doctor self-evaluation to allow greater reflection on personal performance. <sup>15</sup>



## Formal teaching

Many of the formative assessment methods listed above (direct observation, RCA etc.) are also methods of formal teaching. Other formal teaching methods can also be used to identify learning needs. These include problem case discussion (PCD) using the **PQRST framework**<sup>16</sup>, procedural teaching, and topic tutorials using the **GPSA teaching plans**. One specific tool commonly used in teaching professional and ethical practice, and an effective method in which to uncover learning needs, is the [GPSA Scenario App](#)

## Objective assessments

Another broad mechanism of identifying learning needs is review of the registrar's formal assessment activities, for example pre-GPT1 assessment or looking at quiz results. Similarly, registrars who have been unsuccessful in the exam can use this as a learning needs assessment.

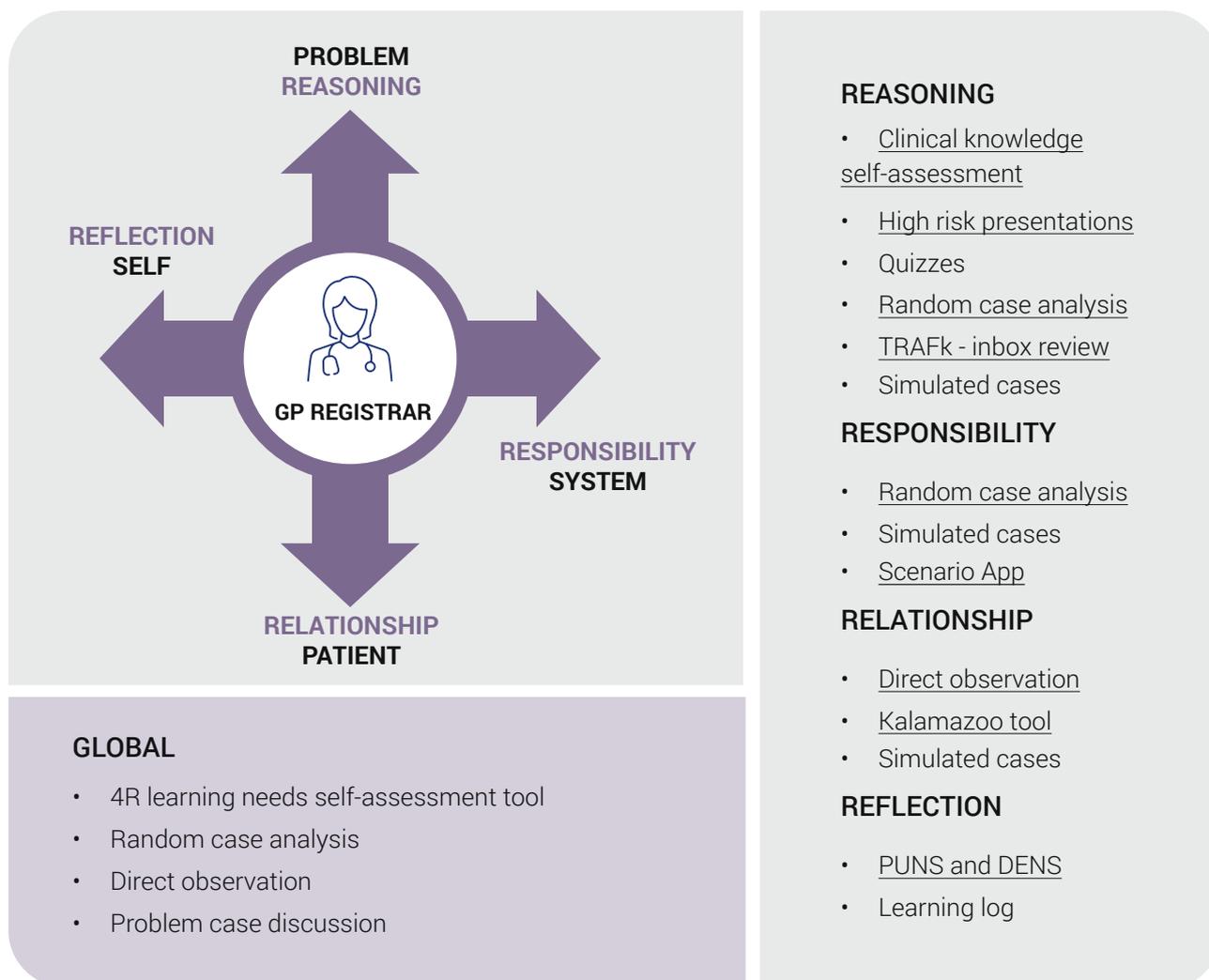


## 2. Which tool for which area of practice?

As above, many of the methods and tools used to identify learning needs are broad, and not specific to one domain of learning. Generally, this is a good thing, as the aim is to uncover unknown learning needs and to cast the net as widely as possible.

However, there are some specific tools available to identify needs in specific domains. The following image identifies which methods and tools are suitable for global or more specific learning need identification.

Figure 6. Learning needs identification - 'Which tool for which area of practice?'





### 3. Which tool for which registrar?

One practical way of working out ‘which tool for which registrar?’ is to consider the range of scenarios in which a supervisor may need to help their registrar assess learning needs. See table below.

Table 1. Learning needs identification - ‘Which tool for which registrar?’

Scenario	Method/tool
<b>I have a registrar who has just started at the practice and I want to help them identify their overall learning needs.</b>	Review of past experience
	<a href="#">IMG self-assessment tool</a>
	<a href="#">4R learning needs self-assessment tool</a>
	<a href="#">Confidence assessment of clinical conditions and presentations</a>
	Roleplay of simulated cases
	<a href="#">Call for help list<sup>11</sup></a> and <a href="#">FAQ resource</a>
	<a href="#">Direct observation</a> , <a href="#">random case analysis</a> , <a href="#">problem case discussion</a>
	Review of past objective assessments
<b>I have a registrar who is struggling with clinical knowledge and doesn't know where to start.</b>	<a href="#">Confidence assessment of clinical conditions and presentations</a>
	Learning log
	<a href="#">Random case analysis</a> , <a href="#">problem case discussion</a>
	<a href="#">GPSA teaching plans</a>
<b>I have a registrar who is overconfident and I am keen to identify their unknown learning needs.</b>	<a href="#">Direct observation</a> , <a href="#">random case analysis</a> , <a href="#">problem case discussion</a> , <a href="#">inbox review</a>
	Learning log
	<a href="#">Scenario App</a>
	<a href="#">PUNS and DENS<sup>12</sup></a>
<b>I have a registrar who was born and trained in a country where English was not their first language and is struggling with patient connection and engagement.</b>	<a href="#">IMG self-assessment tool</a>
	Roleplay of simulated cases
	<a href="#">Direct observation</a> , <a href="#">problem case discussion</a>
	<a href="#">Kalamazoo assessment</a>



I have a registrar who is clinically competent and preparing for their exams.	<a href="#">4R learning needs self-assessment tool</a>
	<a href="#">Confidence assessment of clinical conditions and presentations</a>
	Learning log
	<a href="#">PUNS and DENS<sup>12</sup></a>
	<a href="#">Scenario App</a>
	<a href="#">GPSA teaching plans</a>

#### 4. Which tool for which stage of training?

Early in the placement, it is likely that learning needs assessment is a more formal, deliberate activity. During the placement, it usually occurs in a more ad hoc and opportunistic fashion. The following table gives an idea of when tools and methods may be best used.

Table 2. Learning needs identification - 'Which tool for which stage of training?'

Time	Method/tool
<b>Commencement of term</b>	<a href="#">IMG self-assessment tool</a>
	<a href="#">4R learning needs self-assessment tool</a>
	<a href="#">Confidence assessment of clinical conditions and presentations</a>
	Roleplay of simulated cases
	<a href="#">Call for help list<sup>11</sup></a> and <a href="#">FAQ resource</a>
<b>First couple of weeks</b>	<a href="#">Direct observation, random case analysis, problem case discussion</a>
<b>Throughout term</b>	<a href="#">Direct observation, random case analysis, problem case discussion, inbox review</a>
	Learning log
	<a href="#">PUNS and DENS<sup>12</sup></a>
	<a href="#">GPSA teaching plans</a>
	<a href="#">Scenario App</a>
<b>Mid term</b>	<a href="#">4R learning needs self-assessment tool</a>
	<a href="#">Call for help list<sup>11</sup></a> and <a href="#">FAQ resource</a>



# Putting it all together

## CASE STUDY

This case study is based on the case from the [Practice-based teaching guide](#).

Harriet is a GP supervisor in a regional town. Her new GP registrar is Veronica, a second term registrar who spent the first six months of her training in a large urban practice. Harriet is an enthusiastic and passionate supervisor and is keen to ensure that Veronica's learning needs are identified and met as comprehensively as possible during the placement. She accesses the new GPSA 'Helping your registrar plan their learning' guide (this resource) for guidance.

On their first day, Harriet ensures a couple of hours are blocked off and sits down with Veronica to start the practice orientation. This includes explicitly discussing Veronica's learning needs, including her unknown unknowns using the Johari window (though she prefers the iceberg!). They talk about Veronica's previous training and experience and review the 4R self-assessment tool and a clinical self-assessment checklist that Veronica has already completed. They also work through the 'call for help' list together. Harriet ensures that the discussion covers non-clinical aspects of practice, including consultation skills, professionalism and medicolegal practice.

That afternoon they undertake an hour of 'reverse direct observation', with Veronica watching three of Harriet's consultations and reflecting on her knowledge and skills.

At their first formal practice-based teaching session a few days later, Harriet sits in on Veronica as she consults with two patients. This raises a number of additional unknown learning needs.

Harriet's early learning needs are described below.

### Veronica's learning needs

Type of tool	Learning need
<b>Previous training and experience</b>	PGY6, two years prior to entering general practice doing O&G. Total of 12 months in emergency medicine. Confident in these areas as well as paediatrics. Saw lots of patients with mental health issues in GPT1.
<b>Self-assessment</b> <ul style="list-style-type: none"><li>• 4R tool</li><li>• Confidence assessment of clinical conditions and presentations</li><li>• High risk clinical areas</li></ul>	Clinical learning needs are in men's health, dermatology and management of chronic disease. Consultation structure is sometimes a little disorganised, especially when the patient presents with multiple issues. Time management is also an issue. Other areas include workers compensation and DVA patients.
<b>Formative assessment</b> <ul style="list-style-type: none"><li>• Direct observation</li></ul>	Needs support in consultation structure and giving explanations to the patient.

They agree to undertake a session of random case analysis in the next couple of weeks in addition to problem case discussion which is likely to occur every session. They also plan for a range of other activities to occur later in the term, including inbox review and role playing a few scenarios. Harriet encourages Veronica to keep a learning log as well as capturing PUNS and DENs.



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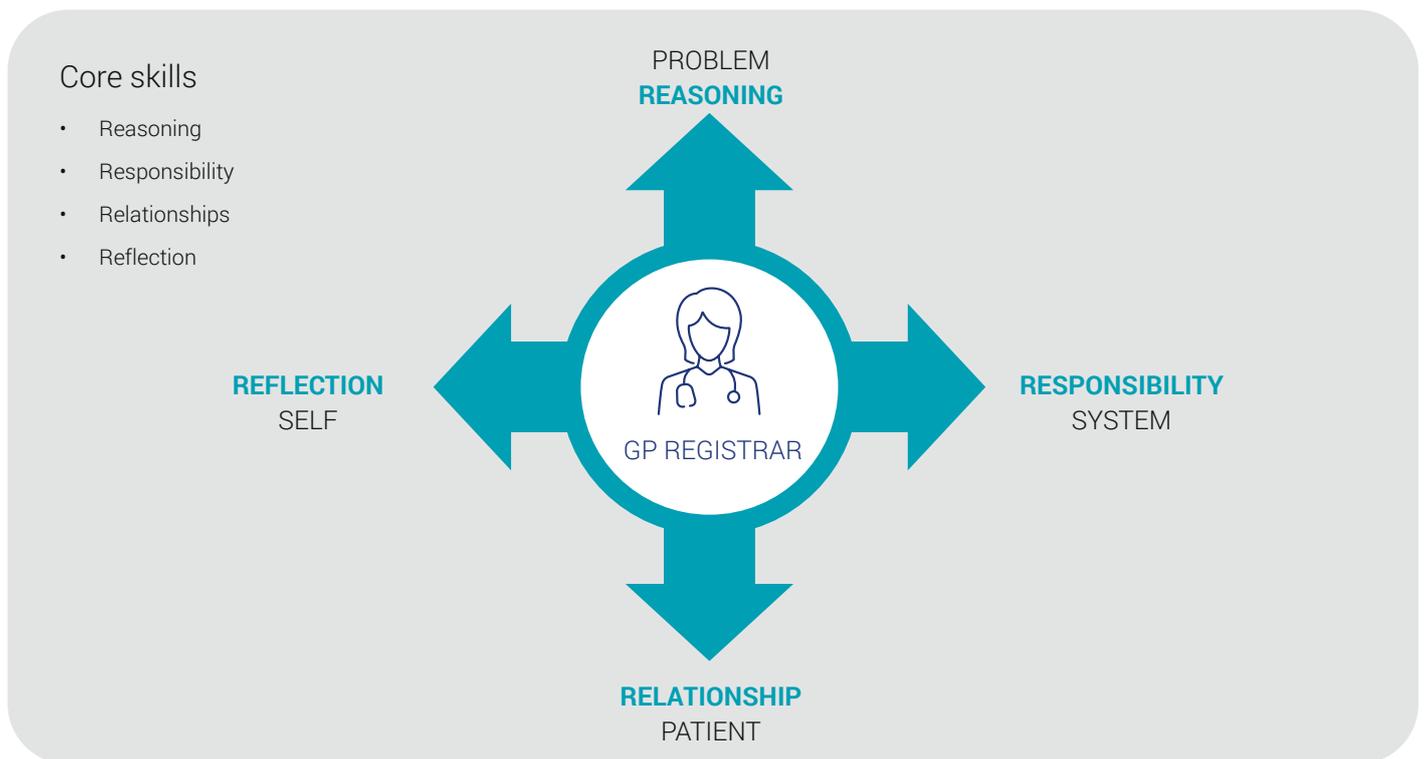
# 4R learning needs

## SELF-ASSESSMENT TOOL FOR GP REGISTRARS

### INTRODUCTION

It can be conceptualised that the safe and effective GP interacts with four 'spheres' in their day-to-day practice, namely the patient, the problem, the system, and themselves. This provides a useful framework for the registrar and supervisors to explore learning needs, namely competence in:

- Relating to the patient
- Reasoning the problem
- Being responsible to the system
- Self-reflecting



### 4R LEARNING NEEDS SELF-ASSESSMENT TOOL

The GPSA 4R learning needs self-assessment tool was developed for registrars to reflect on their perceived competence across a range of skills. While self-assessment is known to be a flawed method of assessment (respondents commonly under- or over-estimate their competence!), it can provide a good starting point for discussion.

We recommend that this tool be implemented at the commencement of term and at the mid- and end-of-term supervision meetings.

Thank you for creating  
a positive learning environment



## 4R LEARNING NEEDS SELF-ASSESSMENT TOOL

### INSTRUCTIONS

Complete the following self-assessment tool by rating your competence for each item, where:

1 – VERY GOOD	2 – GOOD	3 – FAIR	4 – POOR
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Include comments where relevant. Discuss with your supervisor once completed.

	Rating				Comments	Supervisor notes
	1	2	3	4		
<b>RELATING TO THE PATIENT</b>						
<b>Communication</b>						
Speaking and writing English						
Communicating in challenging scenarios e.g. breaking bad news						
<b>Patient-centred care</b>						
Building a relationship with my patient and developing rapport						
Identifying my patient's agenda						
Sharing decisions with my patient						
<b>Cultural competence</b>						
Managing patients from different cultural backgrounds, including Aboriginal and Torres Strait Islander people						



	Rating				Comments	Supervisor notes
	1	2	3	4		
<b>REASONING THE PROBLEM</b>						
<b>Clinical skills</b>						
Data gathering (history and examination)						
Choosing investigations wisely						
Prescribing medications rationally						
Developing a management plan						
<b>Clinical reasoning skills</b>						
Weighing up, synthesising and interpreting information						
Generating a differential diagnosis						
Managing uncertainty						



	Rating				Comments	Supervisor notes
	1	2	3	4		
<b>BEING RESPONSIBLE TO THE SYSTEM</b>						
<b>Navigating the consultation</b>						
Structuring the consultation and managing time						
<b>Professional, ethical and medicolegal</b>						
Managing professional and ethical issues e.g. boundaries, consent						
Managing medicolegal issues e.g. consent, confidentiality						
<b>Organisational issues</b>						
Understanding the Australian health care system, Medicare, PBS						
Organising and managing workload						
Documenting notes and using practice systems						
<b>SELF REFLECTING</b>						
Studying and learning effectively						
Receiving feedback						
Self-care						
Looking after myself						





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