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# Implementing Portfolios Best Practices and Challenges

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# Outline

- Introduction
- What is a Portfolio
- Adult learning principles and Millers Pyramid – competence and performance
- Reflective Practice and Feedback
- what constitutes a Portfolio and Implementation
- Assessment of portfolio
- Challenges of reviewing portfolio
- Summary

# Introduction

- Competency-based medical training has brought about a paradigm shift in the delivery of medical education in both undergraduate and postgraduate medical training.
- Emphasis is now on attainment of the learning outcomes, professional performance, and strengthening of the assessment process.
- Portfolio enables the capture and storage of the performance of the trainee upon completion of the training period which helps with decision making on competence

*Shrivastava et al. Scope of Portfolio in Medical Training. Current Medical Issues 21(1):p 71-72, Jan–Mar 2023*

The image features a word cloud with the word "improve" as the largest and most prominent element. Other significant words include "comments", "information", "help", "wrong", "good", "advice", "way", "piece", "areas", "means", "time", "next", "understand", "negative", "positive", "bad", "right", "improvement", "went", "giving", "Le", "students", "example", "need", "written", "task", "criticism", "ways", "someone", "clear", "things", "made", "overall", "detailed", "event", "constructive", "response", "assessment", "suggestions", "much", "receive", "badly", "something", "know", "coursework", "mistakes", "like", "tell", "exam", "grade", "giver", "improvements", "back", "structure", "understanding", "point", "make", "opinion", "think", "service", "useful", "mark", "points", "aspects", "order", "answer", "order", "improvements", "understand", "negative", "positive", "bad", "right", "improvement", "went", "giving", "Le", "students", "example", "need", "written", "task", "criticism", "ways", "someone", "clear", "things", "made", "overall", "detailed", "event", "constructive", "response", "assessment", "suggestions", "much", "receive", "badly", "something", "know", "coursework", "mistakes", "like", "tell", "exam", "grade", "giver", "improvements", "back", "structure", "understanding", "point", "make", "opinion", "think", "service", "useful", "mark", "points", "aspects", "order", "answer", "order".

# What is a Portfolio

What is a medical portfolio? The term 'portfolio' or 'medical portfolio' is used differently depending on who's asking, but in general, a portfolio is a doctor's record of their professional career, and should provide evidence of commitment to developing their knowledge and skills

*<https://www.messly.com/blog/what-is-a-medical-portfolio>*

## Portfolio

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- Provides evidence of having learnt from that experience
- Describes how learning has happened through those activities
- Records the students' reflections on those tasks

# Difference between log-book and Portfolio

Logbook	Portfolio
<ul style="list-style-type: none"><li>• Provides evidence of having been through a learning experience</li><li>• Enlists what all learning activities have been performed</li><li>• Records the tasks done leading to competency development</li></ul>	<ul style="list-style-type: none"><li>• Provides evidence of having learnt from that experience</li><li>• Describes how learning has happened through those activities</li><li>• Records the students' reflections on those tasks</li></ul>

A logbook records a learner's progression, while a portfolio is a collection of evidence that demonstrates a learner's progression and self-reflection:

A major feature which distinguishes portfolios from logbooks is the element of reflection, which promotes metacognitive skills.

# Competency and Performance

## Competence



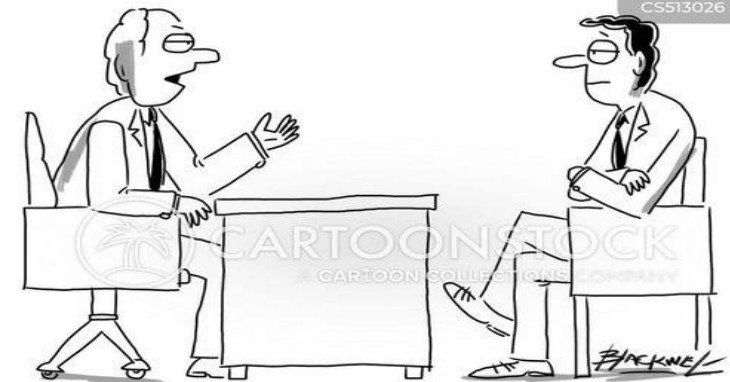
- Attribute of the individual
- Measured against standard
- Attained, not developed
- Easily assessed?



## Performance



- Sum of the individual's interaction with the environment
- Personal and environmental influences
- Difficult to assess?



"WHEN YOU SAID YOU'D GIVE 110%...WE DIDN'T REALIZE THAT WAS LIKE MOST PEOPLE'S 50%!"

# GMC Good Medical Practice -January 2024

Good medical practice sets out the standards of care and behaviour expected of all medical professionals.

It covers areas that include - this can be mapped against the portfolio domains

- Making the care of patients the first concern
- Providing a good standard of practice and care, and working within competence
- Working in partnership with patients and supporting them to make informed decisions about their care
- Treating colleagues with respect and help to create an environment that is compassionate, supportive and fair
- Acting with honesty and integrity and being open if things go wrong
- Protecting and promoting the health of patients and the public

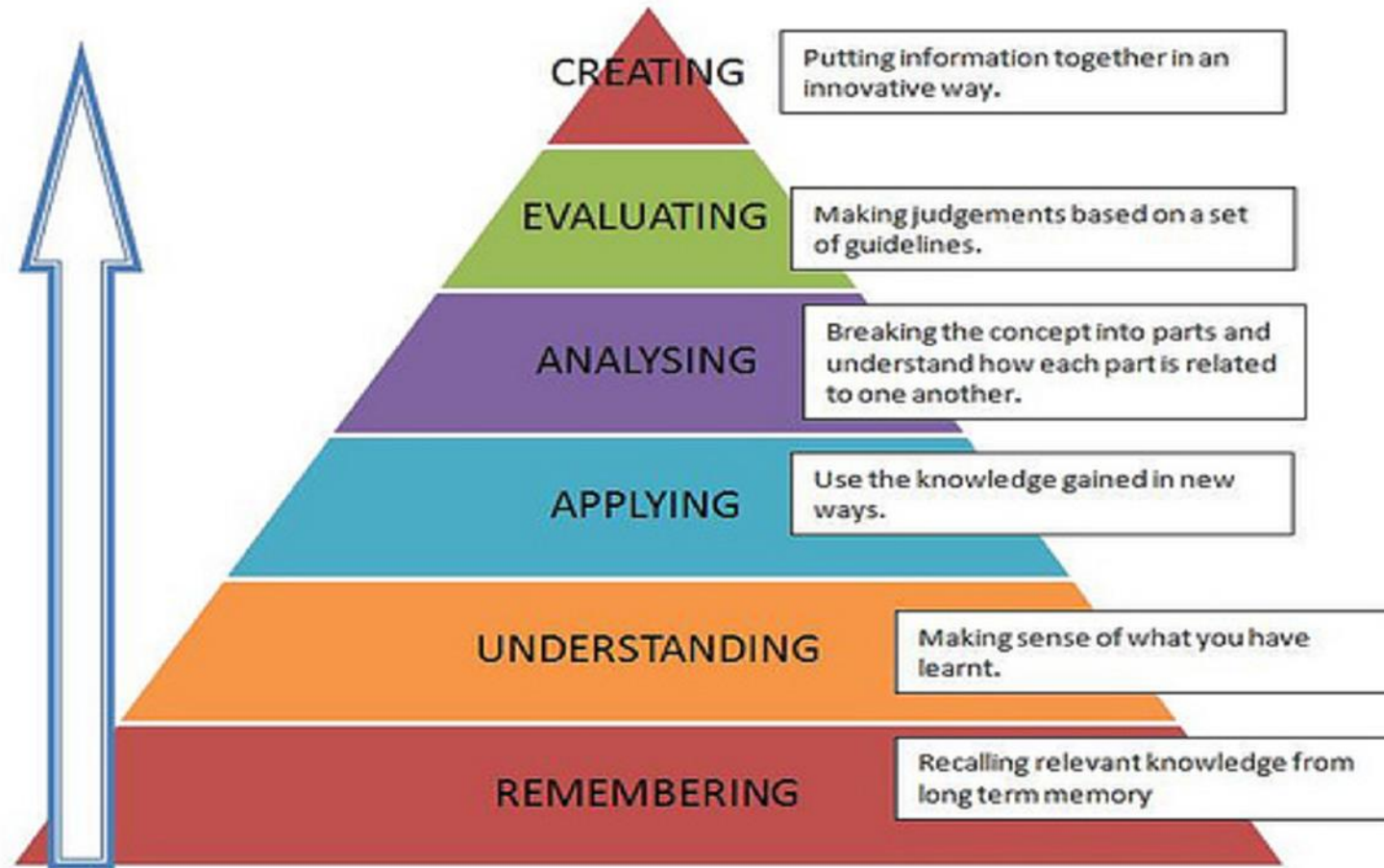


# GMC - Good Medical Practice

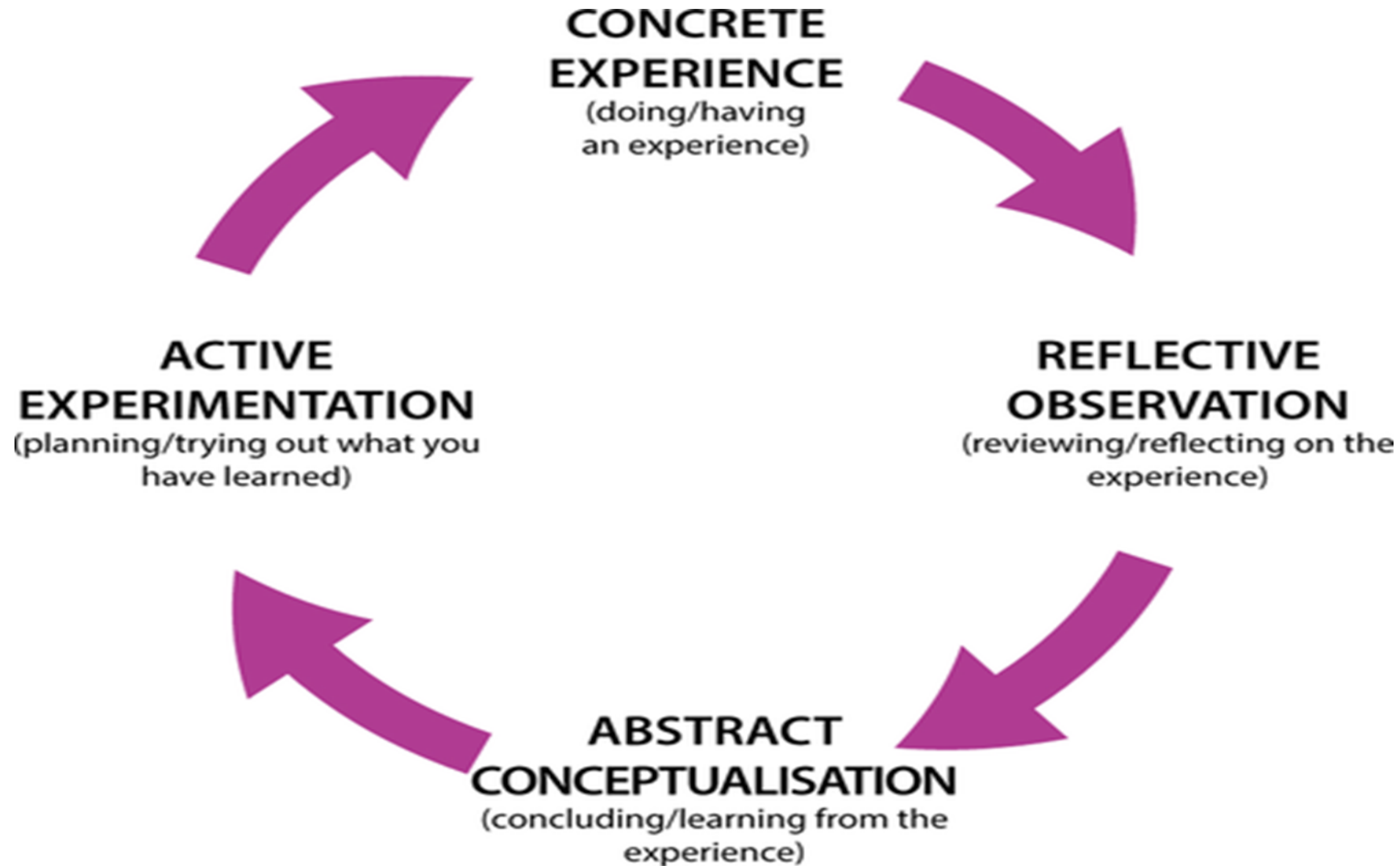
- Domain 1: Knowledge, skills and development
- Domain 2: Patients, partnership and communication
- Domain 3: Colleagues, culture and safety
- Domain 4: Trust and professionalism

*GMC UK 2016*

# Bloom's taxonomy of learning domains (Bloom, 1956)



# *Kolb's learning cycle 1984 – Experiential learning*



# The four stages of learning (attributed to Maslow 1954)

## The four stages of learning (attributed to Maslow 1954)

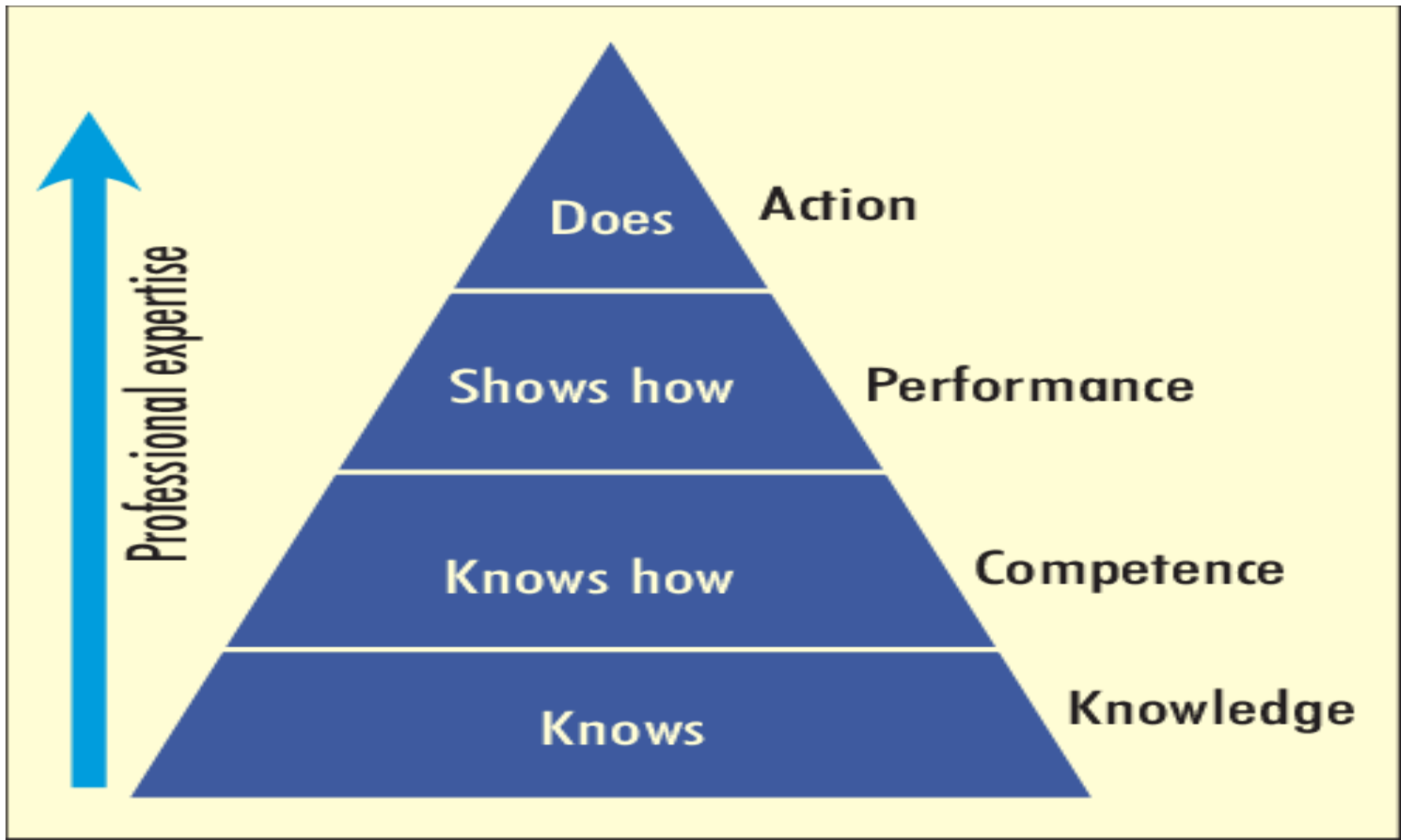
Unconscious incompetence	Blissful Ignorance or the unknown unknowns Possibly false confidence
Conscious Incompetence	Learner aware of incompetence Mistakes are frequently made in this state
Conscious competence	This stage requires concentration to carry out the tasks effectively
Unconscious competence	Fluent and automatic

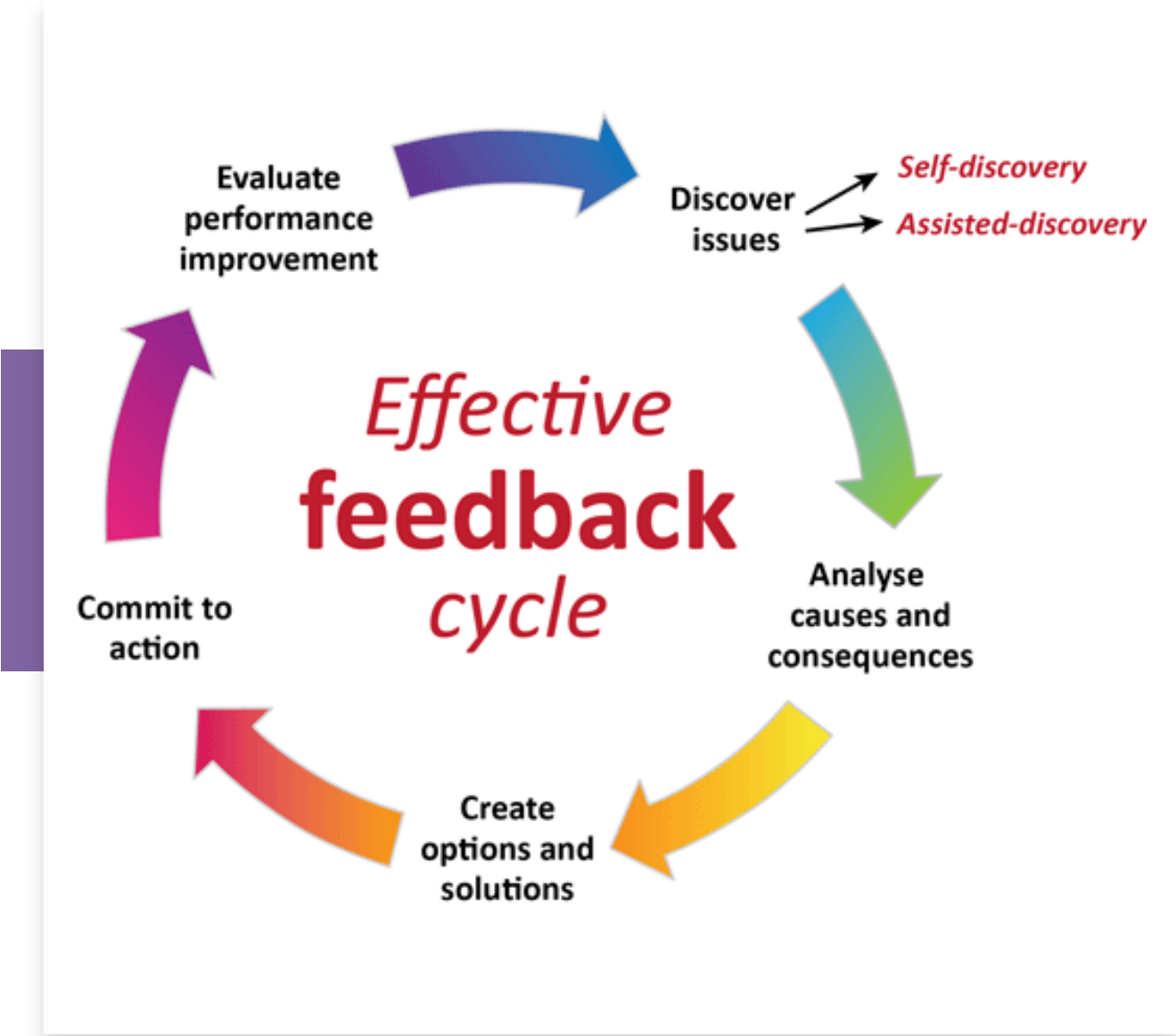
## MILLER'S PRISM OF CLINICAL COMPETENCE (aka Miller's Pyramid)

it is only in the "does" triangle that the doctor truly performs



Based on work by Miller GE, *The Assessment of Clinical Skills/Competence/Performance*; Acad. Med. 1990; 65(9); 63-67  
Adapted by Drs. R. Mehay & R. Burns, UK (Jan 2009)





Judy  
McKimm  
2013

# Approaches to feedback

- The sandwich approach



- Pendleton's Approach



- The Agenda –led approach



- The Set-Go Approach





## Novice to Expert: Feedback plays many roles

Learner Stage	Role of Feedback
Unconsciously incompetent	Help learners identify weaknesses and plan for improvement.
Conscious incompetence	Help learners identify and refine needed skills and knowledge.
Consciously competent	Provide encouragement and opportunities for reflection to integrate skills.
Unconsciously competent	Build on strengths and identify areas for continued growth.

Modeled after table 1 from Qureshi 2017

# Reflective Practice

- Reflection is the thought process where individuals consider their experiences to gain insights about their whole practice.
- Reflection supports individuals to continually improve the way they work or the quality of care they give to people.

## Examples of reflective practice include

- Keeping a journal or diary to record thoughts and reflections after significant events or experiences.
- Engaging in self-assessment to identify strengths and areas for improvement in professional or personal contexts.

# Graham Gibbs Reflective cycle 1988



Figure 1: Gibbs' reflective cycle

# Contents of portfolio and Implementation

- WPBA
- MSF, log book
- Self reflection
- Exams – Primary, Part 1 and Part 2
- Audits, Quality improvement projects, publications
- Teaching/Management/Leadership
- Trainers reports

# Methods of work-based assessment

- Mini-Clinical Evaluation Exercise (Mini-CEX)
- Case Based Discussion - CBD
- Directly Observed Procedural Skills –DOPS
- 360 degrees - Multisource feedback

# What are we assessing?

Communication skills / patient-centredness

Physical examination

Procedural skills

Problem solving / Clinical reasoning

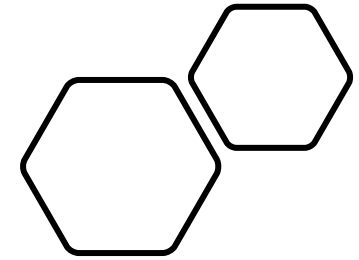
Data interpretation

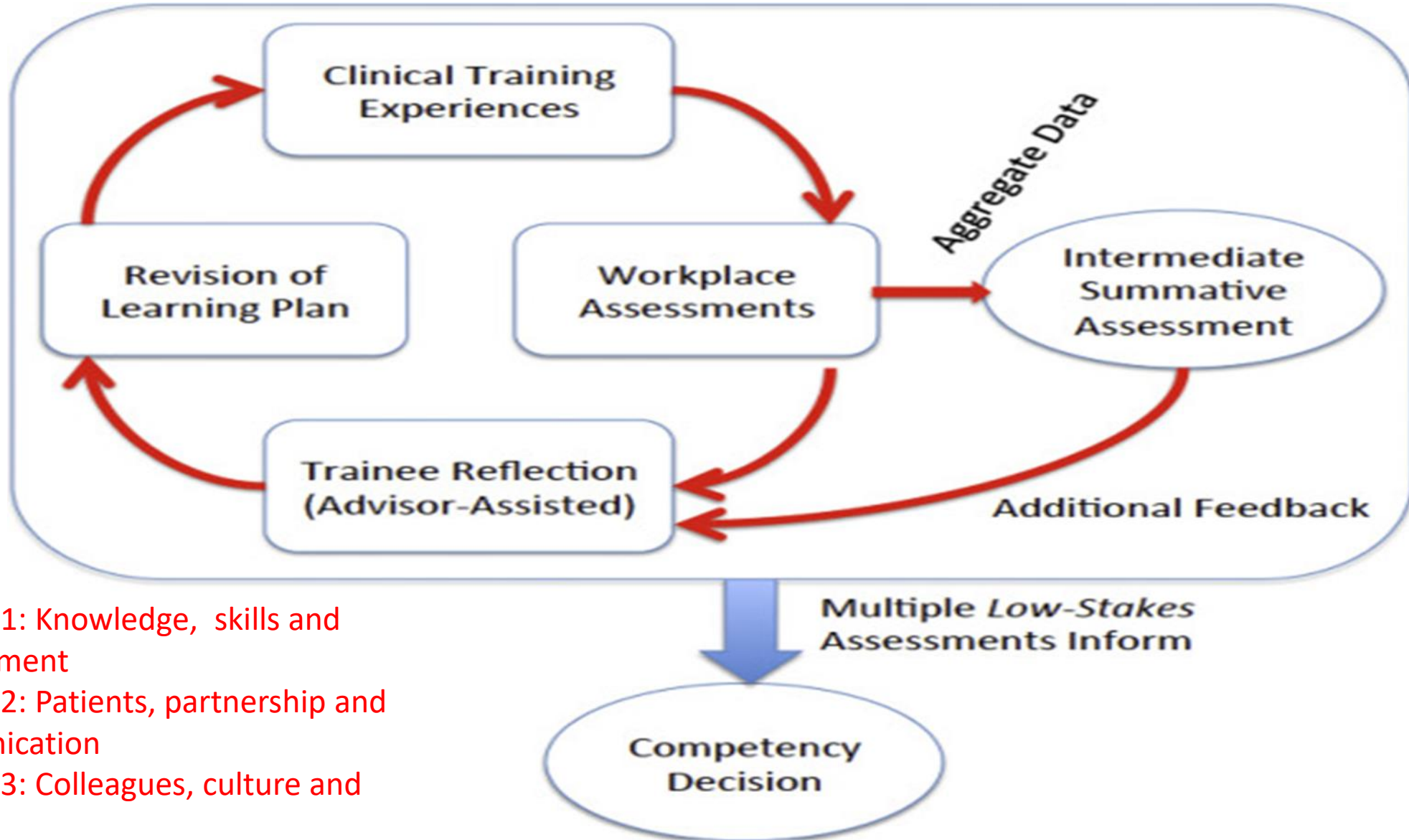
Decision making –management, investigations

Attitudes, professionalism

Incident reporting

Handling ethical and legal scenarios

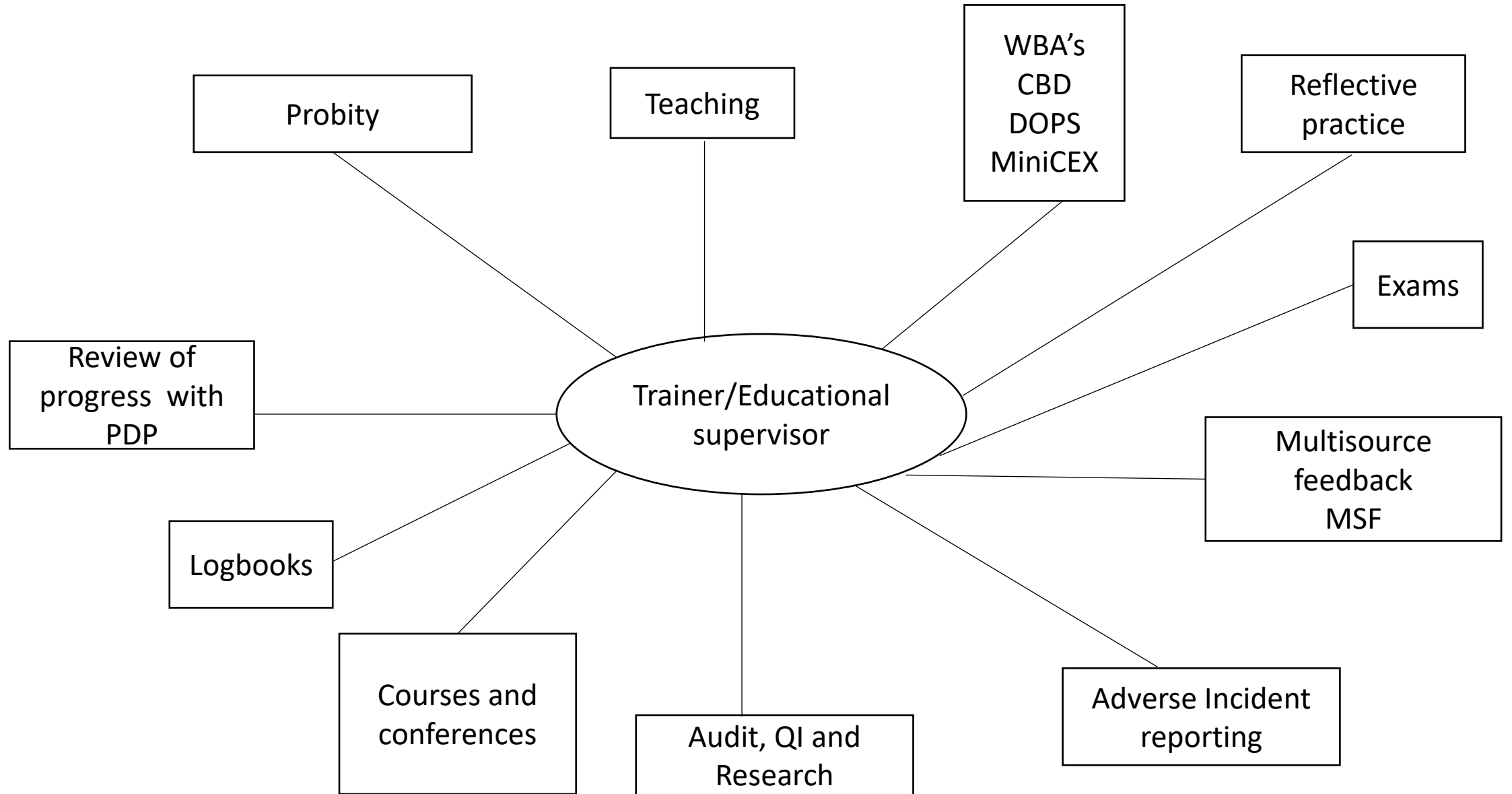




- Domain 1: Knowledge, skills and development
- Domain 2: Patients, partnership and communication
- Domain 3: Colleagues, culture and safety
- Domain 4: Trust and professionalism



# Implementation of Portfolio driven training



# Challenges in reviewing Portfolio

- Poor ability of learners to reflect
- Influence of emotional reaction to feedback
- Lack of metacognitive capacity (reflective thinking and learning)
- When skills are not mapped to good medical Practice
- Poor staff development in areas of assessment



# Summary

- Portfolio enables the capture and storage of the performance of the trainee upon completion of the training period which helps with decision making on competence
- Portfolio if mapped to good medical practice ensures patient safety in specialist training
- Portfolio driven training is in line with educational theories – bloom's taxonomy of learning, Kolb's learning circle, social constructivism and constructive alignment
- It embeds the culture of feedback in the training ensuring continuous improvement
- It encourages reflective learning to improve the quality of care to patients as specialists



Any  
Questions