How to Navigate the Revised UPEC Manual (2022 edition)

Tools that Bridge Classroom to Workplace Learning Using the OBE Approach

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Disclosure

- I have the following relevant financial relationships to disclose:
 - Speaker's bureau for: Sanofi Consumer Health, Pediatrica, Wyeth, Menarini
- · I have no actual or potential conflict of interest in relation to this presentation
- I will not discuss off label or investigational use of any product in this presentation

Rudolf Virchow -



Do.

Medical education does not exist to provide students with a way of making a living, but to ensure the health of the community.

Primary Health Care Providers

AZQUOTES

Objectives

At the end of this presentation, the participant is able to:

- Discuss the principles of curriculum designing, focusing on its role in bridging classroom to workplace learning
- Apply the various teaching-learning and assessment tools that enhance learning in the workplace
- Create a deeper appreciation of the outcome-based approach in undergraduate medical education

Role of Curriculum Design

In bridging classroom to workplace learning

Curriculum: establishes the foundation of what learners are expected to know, do and understand through their educational experiences (TLAs)

Teachers: apply learning standards to engag learning experiences

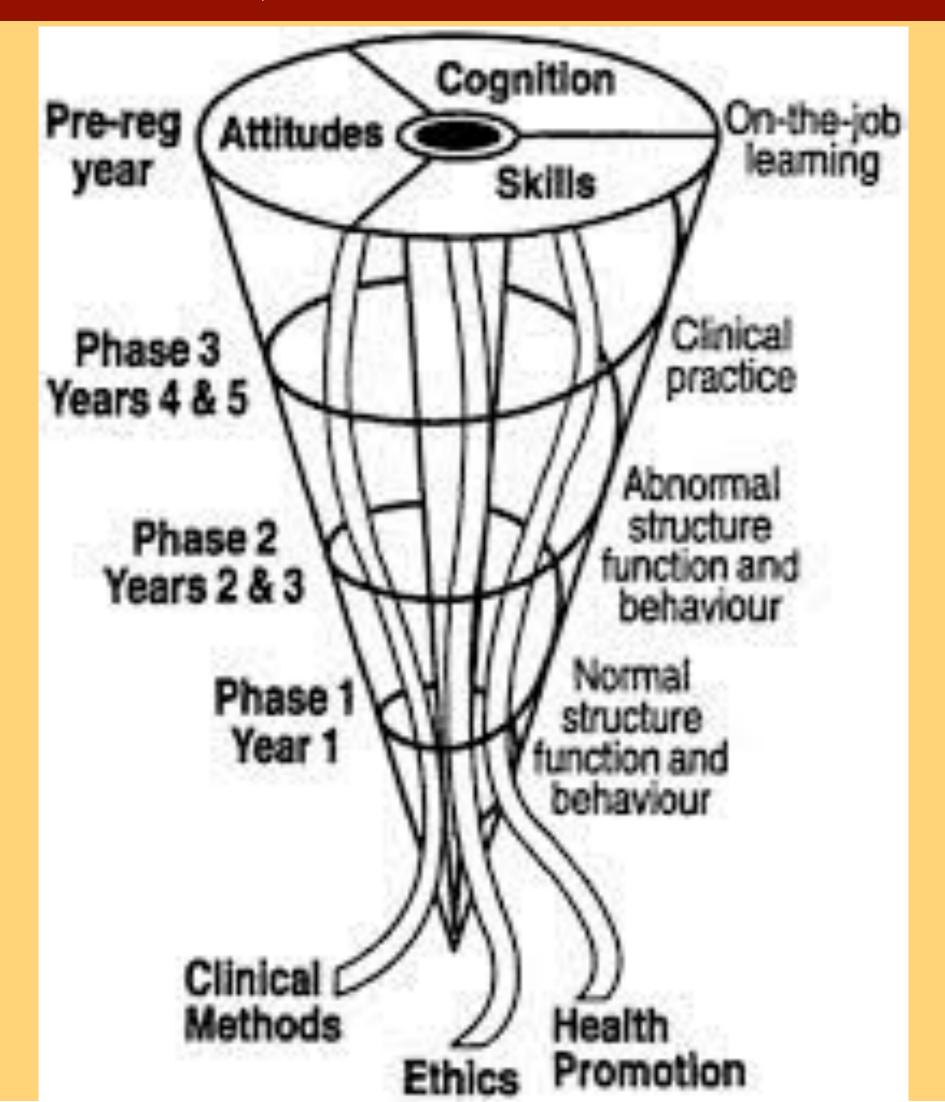
Encourage students to pursue their passions & build a sense of personal identity

Ultimate goal for curriculum design:

- deepen learning
- support students in gaining important core competencies (critical and creative thinking, skillful communication, and demonstrating care for self and others)

Bruner's Spiral Curriculum

Bruner, 1960



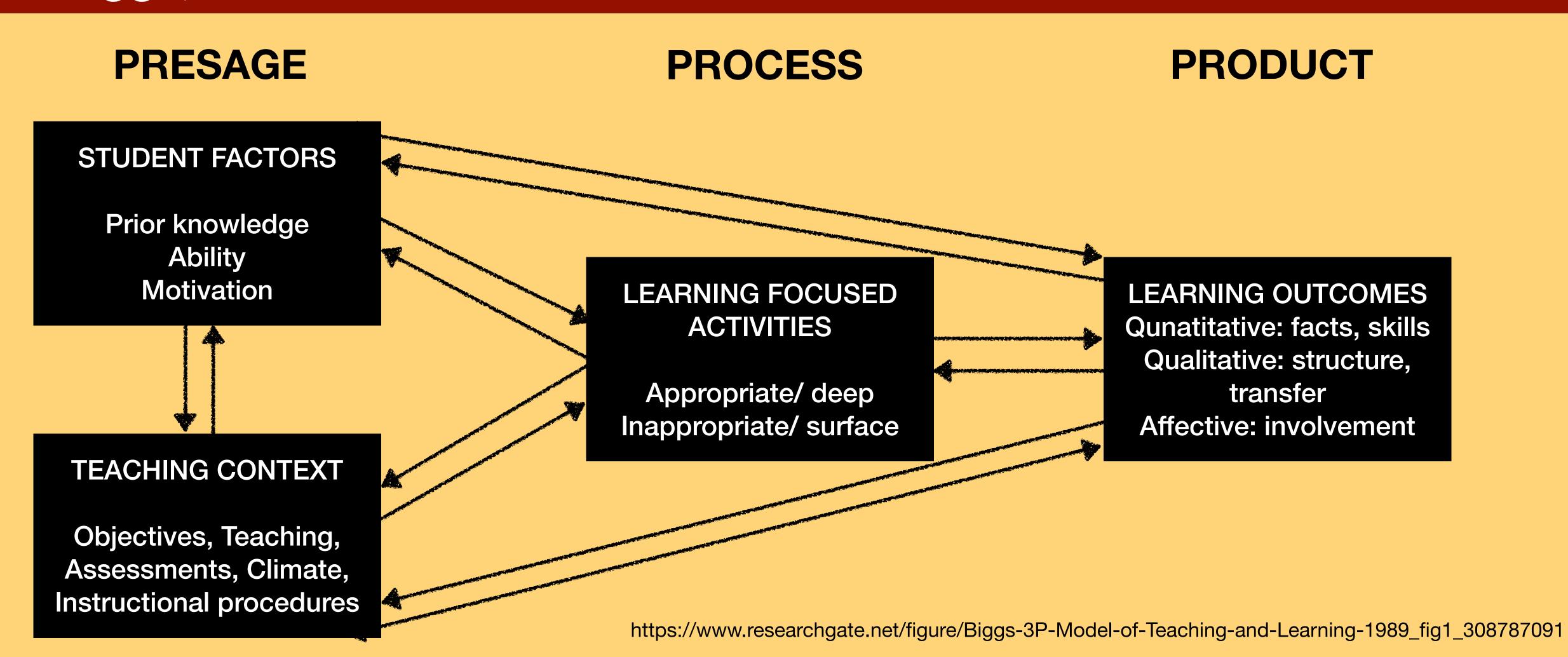
NEW LEARNING has a RELATIONSHIP with OLD learning and is put IN CONTEXT with the OLD INFORMATION

The COMPLEXITY of the topic/ theme INCREASES with each REVISIT

LEARN BASIC topics, themes or subjects FULLY and IN DEPTH and REVISIT them

3P Model of Teaching and Learning

Biggs, 1989



Outcome-Based Education (OBE) Approach

In Undergraduate Medical Education (UME)

- CHED Implementation Handbook 2013
- An approach that focuses and organizes the educational system around what
 is essential for all learners to know, value and be able to do to achieve a
 desired level of competence at the time of graduation
- 10 program outcomes

Relevant, adequate and appropriate training/preparation

CHED MD Program Outcomes	Operational Definition of Program Outcomes
1. Demonstrate clinical competence	Competently manage clinical conditions of all patients in various settings
2. Communicate effectively	Convey information, in written and oral formats, across all types of audiences, venues and media in a manner that can be easily understood
3. Lead and manage health care teams	Initiate planning, organizing, implementation and evaluation of programs and health facilities. Provide clear direction, inspiration and motivation to the healthcare team/community
4. Engage in research activities	Utilize current research evidence in decision making as practitioner, educator or researcher. Participate in research activities.
5. Collaborate within interprofessional teams	Effectively work in teams in managing patients, institutions, projects and similar situations

PO1

PO2

PO3

PO4

PO5

CHED MD Program Outcomes	Operational Definition of Program Outcomes
6. Utilize systems-based approach to	Utilize systems-based approach in actual delivery
healthcare	of care
	Network with relevant partners in solving general
	health problems
7. Engage in continuing personal and	Update oneself through a variety of avenues for
professional development	personal and professional growth to ensure
	quality healthcare and patient safety
8. Adhere to ethical, professional, and legal	Adhere to national and international codes of
standards	conduct and legal standards that govern the
	profession
9. Demonstrate nationalism,	Demonstrate love for one's national heritage,
internationalism and dedication to service	respect for other cultures and commitment to
	service
10. Practice the principles of social	Adhere to the principles of relevance, equity,
accountability	quality and cost effectiveness in the delivery of
	healthcare to patients, families and communities

P06

P07

PO8

P09

PO10

Anatomy of the Revised UPEC ManualExpert Review Recommendations

Defintion of terms

Additional references

Organization of TLA & Evaluation

Homogenous titles
Use of OBE approach
Organize LOs

pine N (UPEC M Inual 2022

Chief Edi

Joseiyn

Easy to follow IDs

filer, a O. Aline Eusebio,

RPIN

LUM

Improved GLOSSARY OF TERMS

Specific LIST OF RESOURCES per ID

Reorganized TEACHING-LEARNING ACTIVITIES and EVALUATION (MENU-type)

Section 1: CORE topics
Section 2: DISORDER/ DISEASE-BASED topics
Section 3: SELECTED topics

PROGRAM OUTCOMES (PO) covered by a LEARNING OUTCOME

Consistent and better aligned LEARNING OUTCOMES in IDs

Separate glossary for TLA & Evaluation

General and Specific references per ID

TLAs via in-person or virtual Evaluation tools as formative or summative

Objectives relabelled as LEARNING OUTCOMES with POs that they cover

Headings based on recurrent themes

いるが、発達を

Use of template
Higher order verbs
Easy to follow sequence

Instructional Design Matrix Using OBE Approach

PROGRAM OUTCOMES	OBJECTIVES	CONTENT	T-L STRATEGIES	RESOURCES	EVALUATION
 Clinical competence Effective communication Leadership/ management Research 	Cognitive	Concepts Topics Theories Hypothesis	Lectures SGL strategies Clinical T-L strategies	AV materials Books Journals	Written (MCQ) OSCE Mini CEX
5. Interprofessional collaboration6. Systems- based approach7. Personal & professional dev't	Psychomotor	Procedures Steps Materials needed Communica-tion	Demo- return	Equipment Skills lab Clinic/ hospital facilities	OSCE DOPS Performance rating scale
 8. Ethical, professional & legal standards 9. Nationalism & internationalism 10. Social accountability 	Affective	Values Attributes	Role play Bedside rounds		Multi Source Feedback Logbook

- Data gathering and recording
- Pediatric procedures
- Normal newborn
- Growth and development
- Nutrition
- Preventive Pediatrics
- Community Pediatrics

Core Topics

LEARN

ou

1. Elicit an age

organized a

(PO 1, 2, 8, !

2. Perform an age thorough and comphysical examinapplicable asses (PO 1, 2, 8, 9, 10)

LEARNING	CONTENT	TEACHING-LEARNING ACTIVITIES	EVALUATION
3. Construct a complete and organized written history and physical examination (PO 1, 2, 8, 9, 10)	 Complete standardized data form Written communication skills Motor and technical skills Integrity, honesty, professionalism, confidentiality, neatness, systematic synthesis 		
4. Effectively communicate with the family and patient during history taking and physical examination (PO 1, 2, 8, 9, 10)	Interview techniques Communication skills Interpersonal skills		
5. Orally present complete and pertinent data clearly (PO 1, 2, 8)	Verbal communication skills Interpersonal skills Knowledge of pertinent data		
6. Demonstrate the desired attitudes during history taking and physical examination (PO 1, 2, 8, 9, 10)	Desired attitudes Compassion Empathy Rapport Sensitivity Responsibility Professionalism Friendliness Respect for privacy Patience Gentieness Non-judgmental attitude		

- Allergy and Immunology
- Bones and Joints
- Cardiology
- Critical care
- Dermatology
- Developmental
- Endocrinology
- Gastroenterology, Hepatology and Nutrition
- Hematology
- Infectious Diseases
- Neonatology
- Neurology
- Oncology
- Renal/ Nephrology
- Respiratory
- Rheumatology

Disease/ Disorder-Based Topics

L	LE OU HISTORY TAKIN	LEARI	LEAL	LEARNING OUTCOMES	f. Interpretation of the results of laboratory tests	TEACHING-LEARNING ACTIVITIES	EVALUATIO
BURDEN OF C 1. Discuss th cardiovas their long children a (PO 1, 2, 4) BASIC SCIENC 2. Explain th physiolog pathophy presenting	4. Elicit a com which focu character a circumstan surroundin complaint (PO 1, 2, 8,	6. Determine the abnormality a based on info gathered (PO 1, 2, 8, 9,		DIAGNOSIS	g. Correlation of laboratory test results with the clinical data, differential diagnosis and natural course of the illness h. Adverse clinical outcome of diagnostic tests • Diagnostic criteria for		
complaint	PHYSICAL EXAI 5. Perform a caccurate particular including a examination palpation, auscultation (PO 1, 2, 8,	ccurate p including a caminatic alpation, auscultatic PO 1, 2, 8, 9 DIFFERENTIAL DI/ 7. List the logica diagnoses ba data diagnoses the adiagnostic e confirm the	8. Choose the a diagnostic e	9. Establish the diagnosis using evidence (PO 1, 2, 4, 8, 9, 10) IMANAGEMENT 10. Discuss a part of treatment incy care, are, and long-term/rehavarious care diseases (PO 1,2,4, 5, 6, 8,9,10)	 common cardiovascular diseases Relevance, availability, socioeconomic factors, rehabilitative care and schedule of follow-up of common cardiovascular diseases Indications for hospitalization and emergency care of 		

- Adolescent disorders and risk taking behaviors
- Clinical Genetics
- Emergency Pediatrics
- Environmental Pediatrics
- Ethical issues
- Fluids and electrolytes

Selected Topics

LEARNING OUTCOMES URDEN OF DISEASE LINICAL CORRELATION 1. Explain risk-taking behavio among adolescents, contributory factors, and thimpact of these behaviors of these behaviors of these health (PO 1, 2, 8, 9, 10)	ISTORY TAKING 4. Elicit a complete history which focuses on the character and circumstances surrounding the complaint (PO 1, 2, 8, 9, 10)	DUVSICAL EXAMINATION 3. Per orm a complete PE, incl. ding Sexual Maturation Rating (SMR) and neurologic examination (PO L, 2, 8, 9, 10)	 Normal anatomy BMI computation, plotting, interpretation using WHO charts Vital signs and normal values for adolescents Sexual maturation rating (SMR) Getting consent from the adolescent Respect for patient's privacy, confidentiality, need for chaperone 	TEACHING-LEARNING ACTIVITIES	EVALUATION
	PHYSICAL EXAMINATION 5. Perform a complete and		alient points in history and PE ommon differential diagnoses ommon laboratory tests for onfirmation of diagnosis as eeded		
	accurate physical examination as systematic carexamination using inspersal palpation, percussion are auscultation (PO 1, 2, 8, 9, 10)	5. Discuss appropriate management and anticipatory	Pharmacologic and non- pharmacologic treatment Growth and development, Injury prevention Healthy lifestyle (diet, physical activity) Avoidance of smoking, alcohol and drug use Responsible sexual behaviors Mental Health Health maintenance (immunization) Limits on screen time Principles of Health Care Transition		

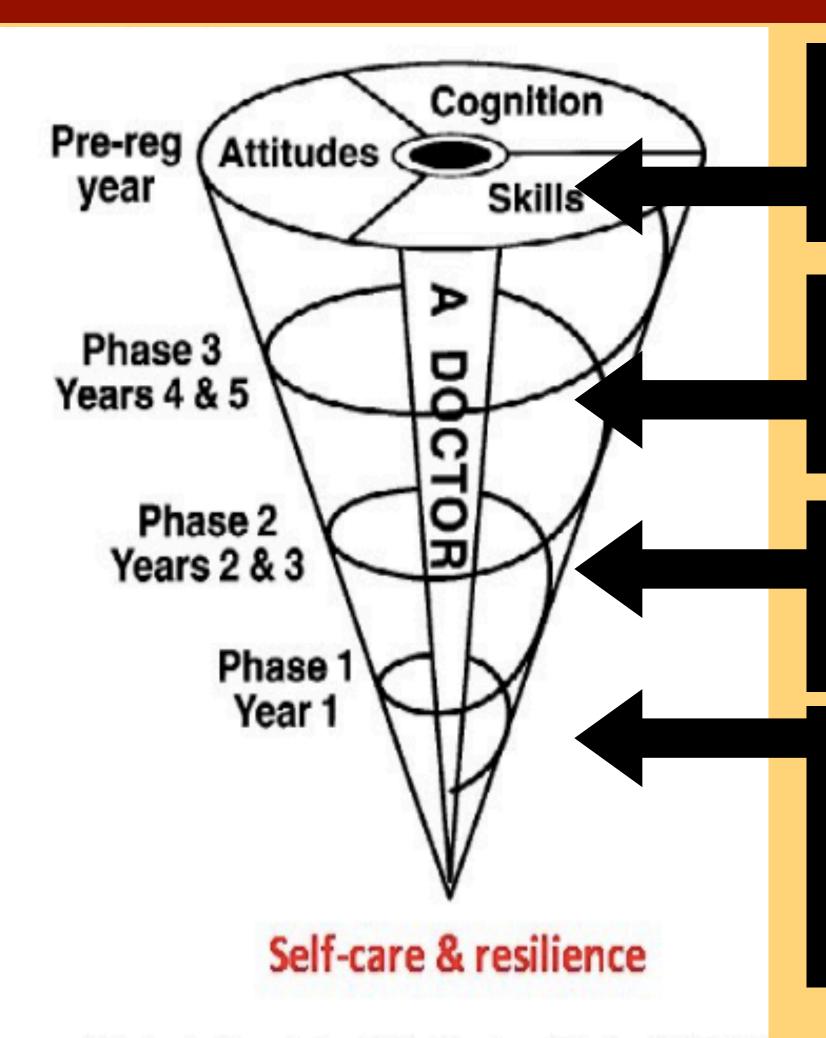
	LEARN				TITALILATION
LEARNIN	ОИТСО	LEARNING	CONTENT	TEACHING-LEARNING ACTIVITIES	EVALUATION
1. Explain the concernionmental here a. Discuss the ballness cause environmental (PO 1, 2, 4) 2. Discuss the vulne children to environte toxicants (PO 1, 2)	HISTORY TAKI G 4. Elicit an accuracy comprehe sive child expo	MANAGEMENT 6. Integrate environmental issues or concerns into health supervision (i.e., well and sick child visits, continuity clinic, inpatients, etc.) a. Provide anticipatory guidance to prevent and abate exposures (PO 1, 2, 5 6, 8, 9, 10)	 Daily environmental issues or concerns Diet Hobbies Child and adolescent employment Preventive measures/anticipatory care 		
BASIC SCIENCE AND C CORRELATION 3. Identify the commental the health of children		7. Apply the principles of risk assessment to common environmental toxicants (PO 1 2, 8, 9, 10)	Principles in risk assessment		
a. Discuss the commanifestation appear due to these substar b. Discuss the	5. Recognize spe examination f signal enviror exposure (PO 1, 2, , 9,	8. Demon trate the skills for risk communication in relation to environmental pediatrics (PO 1, 2 8, 9, 10)	Communication skills		
pathophysiolatoxicity c. Correlate anatophysiology with development of (PO 1, 2)	ADVOCACY Sate anato logy with lopment of 2) ADVOCACY Solutions to their environmental concert through education from health care provider	solutions to their environmental concerns through education from their health care provider local and national resources and	 Health education Environmental health advocacy 		

SECTION THREE: SPECIAL TOPICS

Kliegman R		Int I taking Dehaviors
	Disorders of Allergy and	Adolescent Disorders and Risk-taking Behaviors
Navarro XR		Neinstein, LS, Katzman D, Callahan T. Neinstein's Adolescent and Young Adult Health Care: A Practical Guide. 6th ed. Philadelphia, PA: Wolters
Inc.; 2014	Abbas AK, Lichtman AH	
	McInerny T, Adam	Kluwer; 2016
Alfiler CA, A	History: Assessing Disorders of Bones and	World Health Organization. Adolescent Health. (Internet). May 2020. Available from https://www.who.int/health-topics/adolescent-
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UP Press; 2		Available from
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	Schachile E, Hans	UNICEF. National Baseline Study on Violence Against Children in the Philippines. 2025 (Indiana Philippines
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		Tittps://www.
	https://dl.uswr.ac	
	Voigt R, Macias M, M	
	Lissauer T, Clayder	
	http://ypeda.com/	

Making Learning Spiral

- Iterative revisiting (not just repetition)
- Deeper understanding during each revisit
- Application becomes operational (rigor)
- Internalization leads to comprehensiveness
- MASTERY



Evaluate, Create MASTERY

Apply, Analyze, Collaborate LEARNER CENTRIC

Understand DEPTH, CORRELATION

KNOWLEDGE AS FOUNDATION
SELF CARE
RESILIENCE

Sharples et al. BMJ, 2017; Jones et al, 2001

Teaching-Learning Activities (TLA)

Providing an Appropriate Learning Environment

Pedagogical approaches

Specific TLAs

- Blended learning
- Hybrid learning
- Team-based learning
- Self-directed learning

Use of both in person and online

Some students attend class in person ce knowledge, skills and

ed in person or virtual

of technology)

Engage student knowledge through individual tecting (iRAT) and group

Learning on one's own initiative, with learner having primary responsibility for planning and organizing the process

ures, instructional , demonstrations)

- Preceptorial (OMP, SNAPPS)
- Telemedicine



Process of Problem Based Learning (PBL)

- 1. Examine and define the problem.
- 2. Explore what they already know about underlying issues related to it.
- 3. Determine what they need to learn and where they can acquire the information and tools necessary to solve the problem.
- 4. Evaluate possible ways to solve the problem.
- 5. Solve the problem.

Small Group Discussion (SGD)

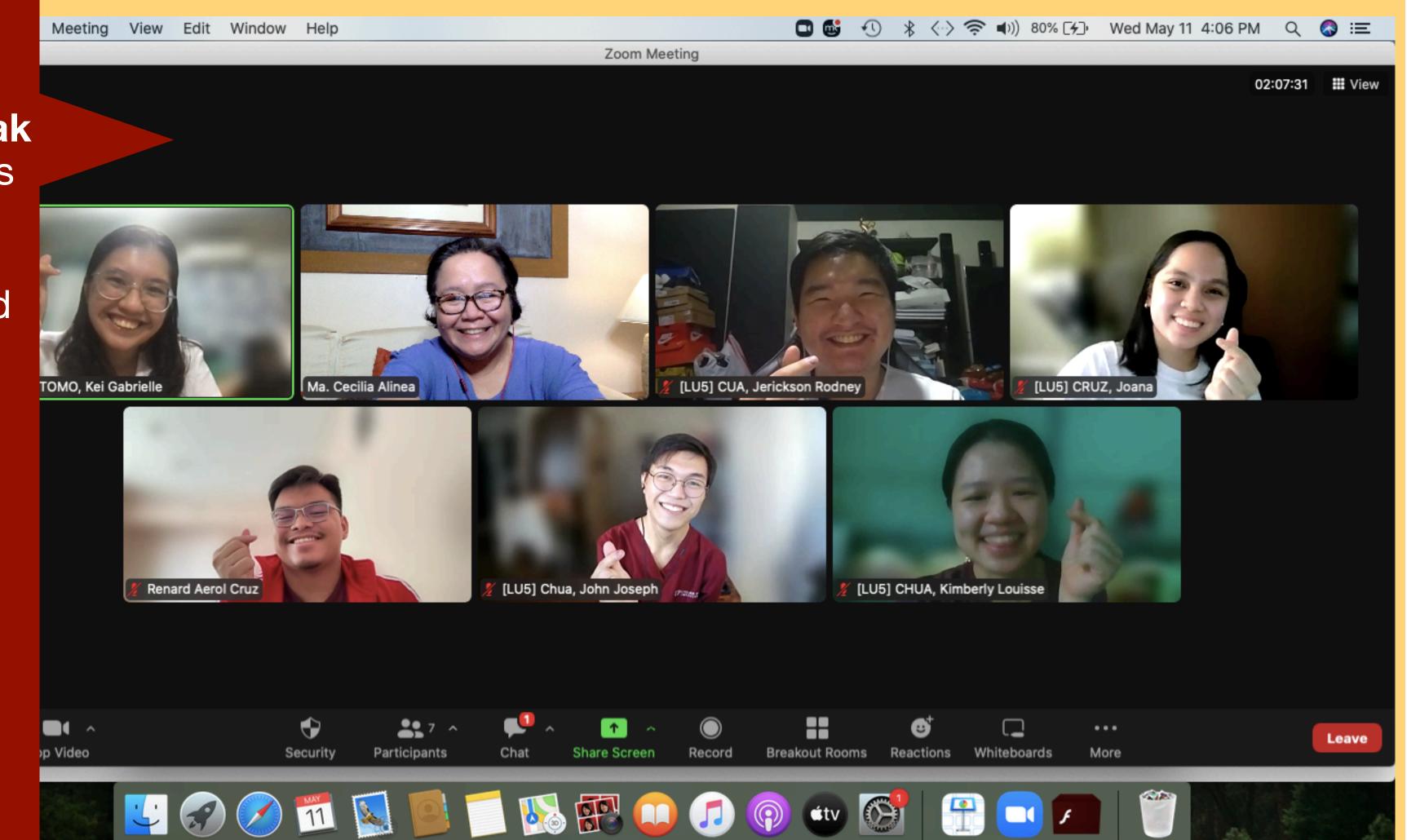
All members have a chance to speak and express, hear and test out ideas

Group members can receive and respond to respectful but honest and constructive **feedback**

A variety of points of view are put forward and discussed

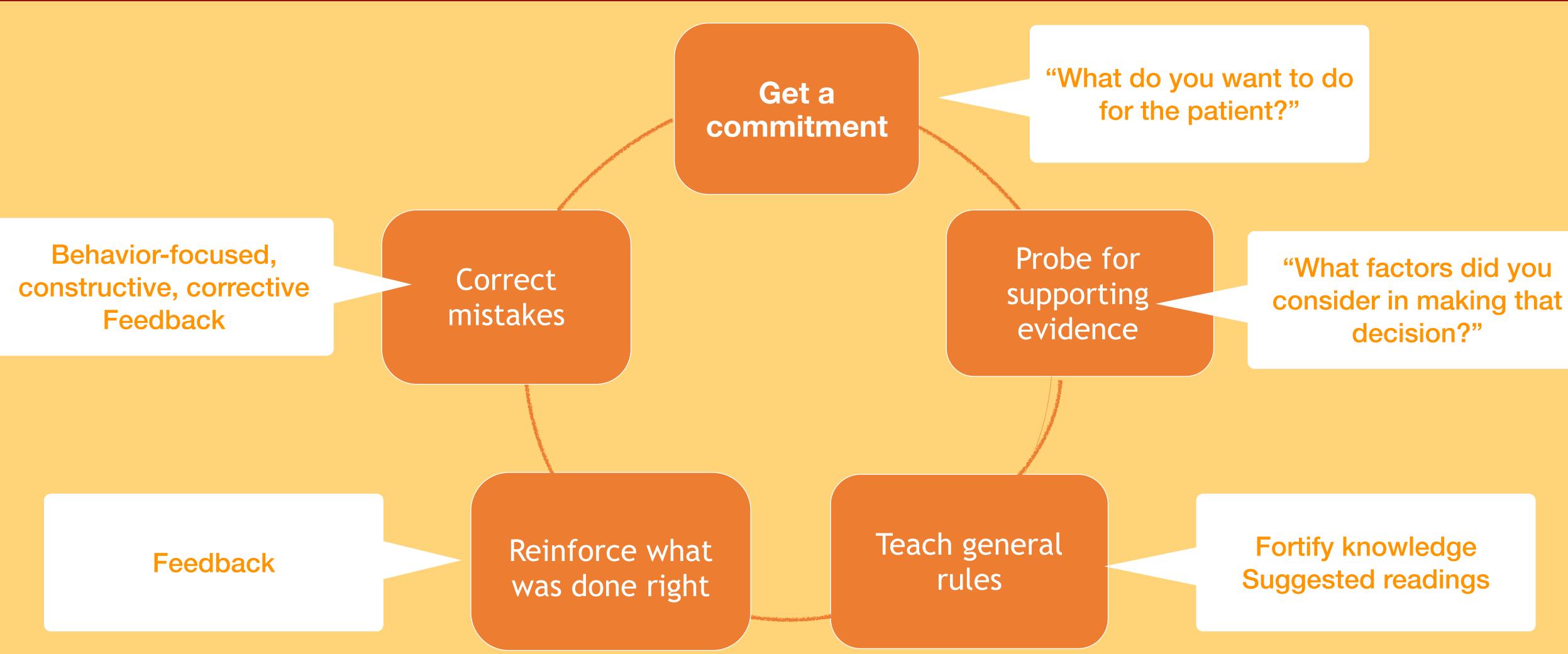
The discussion is not dominated by any one person

There's an agreement that the group is **working together** to solve a problem, create a plan, make a decision and final conclusion



One Minute Preceptor (OMP)

5 Microskills



Neher JO, Stevens NG.Fam Med. 2003;35(6):391-393

S.N.A.P.P.S.

Summarise the case

Narrow the differential

'What are the diagnostic possibilities here?'

Analyse the differential

'Why is this diagnosis likely/unlikely?'

Probe the teacher

'What question would you like to ask me?'

Plan management

Select issue for self directed learning

- Type of preceptorial
- Teacher: facilitator who serves as knowledge "presenter" rather than "source"
- Learner: discusses patient encounter beyond facts; asks questions; engages in follow-up learning

"Traditional" Presentation Format Subjective: History of Present Illness This is a year old with history of who presents with chief complaint of . Don't forget to include quality, locations, severity duration, timing, context, modifying factors and associated signs and symptoms. Review of Systems: (can also be given before the Objective section) Constitutional, Eyes, Ears/Nose/Mouth and Throat Cardiovascular, Respiratory, Gastrointestinal, Genitourinary, Musculoskeletal, Integumentary, Breast, Neurological, Psychiatric, Endocrine, Hematologic, Lymphatic, Allergic, Immunologic Past Medical and Surgical History Current Medications with Dose and Frequency Pertinent Past medications Medication Allergies and Adverse reactions Immunizations Social History Family Medical History Objective: Vitals Eyes Nose Ears Mouth Throat (including thyroid) Cardiovascular Respiratory Gastrointestinal Genitourinary Musculoskeletal Skin Psychiatric Neurologic Lymphatic Assessment: This is a ____ year old Plan: Propose a plan for further evaluation and/or treatment.

"SNAPPS" Presentation Format

Summarize

 Present only the pertinent facts from the HPI, ROS, Past Medical History, Medications, Family History, Social History, and Physical exam.

Narrow Differential Diagnosis

- State a Problem Representation using medical term(s) and Semantic Modifiers
- Offer three (3) possible Diagnoses [and 1 "do not miss"]

Analyze the Differential

 Rank your Diagnoses by reviewing what information supports or goes against each (demonstrate your knowledge and you analytical skills). Commit to a Diagnosis if you can.

Probe the Preceptor (at any time in the presentation)

- Identify your gaps, points of confusion or dilemmas and ask questions to tap into the preceptor's knowledge base.
- Preceptors like you to ask questions: it shows them what to teach you, and personalizes your instruction.

Plan Management

- Propose a Diagnostic Plan to sort out the Problem and/or confirm the Diagnosis
- Propose a Therapeutic Plan to manage the Problem
- Preceptors will give you feedback regarding what you did well and what you could improve upon.

Select an Issue for Self-directed Learning

- Think about your performance. What knowledge would have helped you do a better job in evaluating this patient?
- Select a source of information and review it. Consider giving the preceptor a paragraph summary of what you learned from your reading.

Adapted from Wolpaw et al.

TLAs as tools in bridging classroom to workplace learning

Students need to learn to make connections between different experiences in learning rather than just master facts

Achieve this by **learning through inquiry**—> teacher providing guidance focussed on accelerating learner's thinking

Bruner: early teaching of any subject should emphasise grasping basic ideas, and the curriculum should revisit these basic ideas, building upon them incrementally until the learner understands them fully and in depth (spiral curriculum)

If students learned the 'fundamental principles' of a subject, the connections between ideas within subject are formed

Evaluation

Making Sure That Learning Has Occurred

Formative

Mini- Clinical Examination Exercise (Mini-CEX)

Clinical Encounter Card (CEC)

Blind Patient Encounter (BPE)

Clinical Work sampling (CWS)

Direct Observation of Procedural Skill (DOPS)

Case-based Discussion (CbD)

Summative

Written Examination

Oral Examination

Objective Structured Exams

Global Performance Measures

Evaluation

Direct
observation of a
Patient
Consultation

Mini Clinical
Evaluation
Exercise
(Mini CEX)
(Norcini, et al, 1995)

Clinical
Encounter Cards
(CEC)
(Hatala & Norman,
1999)

Clinical Work Sampling (CSW) (Turnbull, et al, 2000) Direct
Observation of
Practical Skills

Directly
Observed
Procedural Skills
(DOPS)
(Wragg et al, 2003)

Direct
Observation of
Surgical Skills

Structured
Assessment of
Technical Skills
(OSATS)
(Martin et al, 1997;
Bodle et al, 2008)

Objective

Procedure-Based
Assessment
(PBA)
(Isles & Pugsley, 2010;

Mariott et al, 2011)

Patient
Discussions using
Case Notes

Chart Stimulated Recall (CSR) (Maatsch et al, 1983)

Case-based
Discussion (CbD)
(Davies et al, 2009;
Jyothirmayi 2012)

Feedback/ 360-degree Multi-Source Feedback (MSF)

Mini Peer
Assessment Tool
(Mini-PAT)
(Archer et al, 2008)

Team
Assessment of
Behaviors (TAB)
(Whitehouse et al, 2007)

Patient
Satisfaction
Questionnaires
(Marshall & Hayes 1994)

Global
Performance
Measures

In-Training
Evaluation
Reports
(ITER)
(Ginsburg et al, 2013)

Burch V. Journal of Applied Testing Technology, Vol 20(S2), 37-59, 2019

Mini-Clinical Evaluation Exercise (CEX)

Evaluator:		Date:	
Resident:		O R-1	O R-2 O R-3
Patient Problem/Dx:			
Setting: O Ambulatory	O In-patient O EI	O Other	
Patient: Age:	Sex:	O New	O Follow-up
Complexity: O Low	O Moderate	O High	
Focus: O Data Gathering	O Diagnosis	O Therapy	O Counseling
1. Medical Interviewing Ski	lls (O Not observed)		
	4 5 6 SATISFACTORY		7 8 9 SUPERIOR
		•	
2. Physical Examination Ski			
1 2 3 UNSATISFACTORY	4 5 6 SATISFACTORY		7 8 9 SUPERIOR
3. Humanistic Qualities/Pro	ofessionalism	1	7 8 9
UNSATISFACTORY	SATISFACTORY		SUPERIOR
4 Clinical Indoment (O NI	or observed)		
4. Clinical Judgment (O No	4 5 6		7 8 9
UNSATISFACTORY	SATISFACTORY		SUPERIOR
5. Counseling Skills (O No	t observed)		
1 2 3 UNSATISFACTORY	4 5 6 SATISFACTORY		7 8 9 SUPERIOR
	om on on		JOI BRION
6. Organization/Efficiency			_
1 2 3 UNSATISFACTORY	4 5 6 Satisfactory		7 8 9 SUPERIOR
7. Overall Clinical Compete	ence (O Not observe	d) I	7 8 9
UNSATISFACTORY	SATISFACTORY	.	SUPERIOR
Mini-CEX Time: Observing	g Mins Prov	iding Feedback:	Mins
Evaluator Satisfaction with I	Mini-CEX		
LOW 1 2 3		7 8 9	HIGH
Resident Satisfaction with M	Iini-CEX		
LOW 1 2 3	4 5 6	7 8 9	HIGH
Comments:			
			······································
Resident Signature	Evaluato	or Signature	

	Clinic: farm animal small animal horse	
	Ward:date:	What could be better?
	Patient's problem:	
	Activity:	
	Name of teacher:	Suggestions for next steps?
	Signature of teacher:	
0	Buchner 5/2015 1	2
	Activity: - o-o+ + O- satisfactory O+ good	vetmeduni vienna 🎳 រុទ្ធ
ely.	Studients:: please enter self-assessment (anonymous !) Communication:(during round)	Questions on feedback: (to be completed by students (anonymous !)
separately.	Correct/complete	How did you perceive the feedback?
cards	Comprehensible language	
both	Activity: Examination: (internal, surgical, orthopaedic,	Was it provided
nit	radiologic, ophthalmological, etc.),	immediately?
subr	Treatment (Kathether, bandage change, debridement,	Š.
pu	which:	Curth or romonium
cha	Preparation/Instruments	
ach and submit bo	stomach tube, others): which: Preparation/Instruments Interaction with animal	Further remarks:



Case Based Discussion Scoring Form

Case Number:		Ass	sessor:				
Candidate Name:							
Age & Gender of Pa	tient:						
Clinical Context							
Brief Description	of Case:						
Setting							
Medical centre / C based practic		Hospital	Re	esidential age	ed care	P	Aboriginal Medical Service
Other (please sp	necify)						
Location	,cony)						
RA 5 – Very Ren	note RA	4 – Remote	RA	3 – Outer Re	egional	F	RA 1 & 2 – Inner
Australia		Australia				ional or major city	
Other (please sp	ecify)						
Presentation							
New patient to t	his practice	New patient been at this			Retur		patient with new problem
		boom at this					
	patient with chronic Revie		n acute	acute problem		w of	chronic disease
Other (please sp	ecify)						
Case Focus							
Communication Skills	History Taking	Physica Examinat		Clinical Mar Rural/Rem			
Other (please sp	necify)						
Out of (piease st							

	w do you rate this	for F1 completion		Borderline for F1 completion	for F1	for F1 cor	u/c*	
Do	ctor in their:	1	2	3	completion 4	5	6	
Go	od Clinical Care							
1	Ability to diagnose patient problems							
2	Ability to formulate appropriate management plans							
3	Awareness of their own limitations							
4	Ability to respond to psychosocial aspects of illness							
5	Appropriate utilisation of resources e.g. ordering investigations							
Ma	intaining good medical p	ractice						
6	Ability to manage time effectively / prioritise							
7	Technical skills (appropriate to current practice)							
Te	aching and Training, App	raising a	nd Asse	essing				
8	Willingness and effectiveness when teaching/training colleagues							
Re	lationship with Patients							
9	Communication with patients							
10	Communication with carers and/or family							
11	Respect for patients and their right to confidentiality							
W	orking with colleagues							
12	Verbal communication with colleagues							
13	Written communication with colleagues							
14	Ability to recognise and value the contribution of others							
15	Accessibility/Reliability							
16	Overall, how do you rate this doctor compared to a doctor ready to complete F1 training?							
	Do you have any concerns about to If yes please state your concerns:		probity o	or health?	Yes	☐ No		

Anchoring to OBE Approach

- Achievement of program outcomes by each learner: basis for promotion and graduation
- Evaluation tools should provide information if the outcomes have been achieved
- Knowledge tests show clinical competence (PO1), engagement in research activities (PO4), interprofessional collaboration (PO5), systems-based approach (PO6)
- Observation and Feedback assessment tools show effective communication (PO2), leadership (PO3), personal and professional development (PO7), ethical, professional and legal practice (PO8), nationalism/internationalism (PO9), social accountability (PO10)

Summary

- Undergraduate curricula is crucial in producing relevant primary care providers as it establishes the foundation of what learners are expected to know, do and understand through their educational experiences
- Anchored to an outcome based approach whereby outcomes are achieved for promotion and/or graduation
- PPS has developed and revised the Undergraduate Pediatric Education
 Curriculum as guide in creating the foundations of competencies in the field
- TLAs create the optimal learning environment and evaluation tools provide information if this learning has occurred—> important in curriculum design

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