

Annexes of the article RevEspEduMed 2023, 2: 57-69; doi: 10.6018/edumed.569921

Annex A. Research Instrument

Perceived Clinical Readiness of Senior Medical Students as Outcomes of Online Clerkship in the Philippines: New Normal in Medical Education

Dear Respondents:

Good day!

We are third year medical students of the Cebu Institute of Medicine (CIM), conducting this survey for our study, "Perceived Clinical Readiness of Senior Medical Students as Outcomes of Online Clerkship in the Philippines: New Normal in Medical Education". This study will determine the impact of the new online teaching platform and the alternative clinical clerkship training programs on the clinical readiness of the fourth year medical students in the Philippines.

To accomplish this endeavor, we would appreciate greatly for you to take part in this study by answering this questionnaire. It shall approximately take 15-20 minutes of your time, with data entered electronically into secure databases. Hence, we assure you that the information you provided us will be kept with utmost confidentiality and will be permanently deleted once it has served its purpose.

If you wish to continue and be part of our study, you may start answering the questions in the next few sections; however, if you do not want to participate, you may exit this Google Form at any time as your participation is entirely voluntary. We hope for your full cooperation.

Thank you very much.

I	Profiling	Group 16, PBL-3 E-mail address: justinrileylam@cim.edu.ph
Age: _		
Gender	r:	
Medica	al institution currently enrolled:	
Place o	of Residence:	

- 1 Based on your performance last academic year, your grades will fall under which of the following?
 - Among the highest 25%
 - In the middle 50%
 - Among the lowest 25%
- 2 Did your medical school suspend face-to-face clinical rotations due to the COVID-19 pandemic?
 - o Yes
 - o No

3	Have you ever considered taking a leave of absence? O Yes No
II	Online Clerkship Activities
1	Did your medical school require and/or encourage online learning while clinical rotations are being suspended? *Online learning is defined as the use of electronic technology and media to deliver, support, and enhance both learning and teaching and involves communication between learners and teachers utilizing online content. (Howlett et al., 2009) This may be synchronous (e.g., online lectures where teachers and learners have to be connected to the Internet at the same time) or asynchronous (e.g., teachers upload videos or handouts to be studied by the learners at their own time and pace). O Yes No
2	What were the activities given online in lieu of your clinical clerkship? Check all that applies Online/pre-recorded lectures Video-making Online Fora / Webinars / Conferences Case Reports / Presentation / Journal Appraisal Others (please specify):
3	How were your skills evaluated or assessed by your clinical preceptor? Check all that applies Objective Structured Clinical Examination (OSCE) Objective Structured Practical Examination (OSPE) Online Journal Reports and Case Presentations Situational Analysis and Reflection Papers E-Portfolios One-on-one Return Demonstrations Oral Examinations Infographics / Concept Maps Written outputs (e.g. history and PE findings, clinical formulation, progress notes, etc.) Video Conferences Others (please specify):
4	What Learning Management System does your school utilize? Check all that applies Google classroom Canvas NEO LMS MOODLE Blackboard iLearn Microsoft Teams UP Virtual Learning Environment (VLE) Others (please specify):

- 5 Did the activities help you hone your skills in preparation for actual or face-to-face patient interaction?
 - o Yes
 - o No
 - o Unsure
- 6 If you are asked to assist in hospitals, would you be confident doing so?
 - Yes
 - o No
- 7 What could possibly hinder you from performing well in clinical rotations?
- 8 In History Taking, will you be able to extract pertinent information regarding your future patient's case?
 - o Yes
 - o No
 - o Unsure
- 9 Can you say you've mastered performing physical examination and be able to identify the normal and abnormal findings with less supervision?
 - o Yes
 - o No
 - o Unsure

III Medical Training

For the next few questions, please base your answers on your overall learning experience. As a senior clerk and soon-to-be physician, please rate (how well or badly/ how confident) do you think you can perform the items being asked. Consider, however, how the pandemic brought impactful changes to the mode of learning, from actual patient interaction to online courses.

You may refer to this rating scale:

Very Ready	I can perform the item being described with confidence at all times.
Ready	I can perform the item described with confidence most of the time .
Moderate	I can perform the item described with confidence sometimes .
Less Ready	I can perform the item described with confidence once in a while.
Not at all	I CANNOT perform the item described with confidence.

A Clinical Skills

	Very ready	Ready	Moderate	Less ready	Not at all
Obtaining a complete and concise clinical history.					

2	Performing and documenting the physical examination of a patient.			
3	Deciding which laboratory tests/investigations are required and interpreting them.			
4	Formulating diagnosis and differential diagnoses of common clinical diseases using evidence based medicine and guidelines			
5	Formulating treatment plan, along its indications and possible complications using evidence based medicine and guidelines			
6	Writing and doing a referral when needed.			
7	Formulating progress notes and discharge summaries.			
8	Keeping an accurate and pertinent medical record.			
9	Responding effectively during emergencies, securing the airway, breathing, and circulation of the patient.			
10	Dealing with patients with psychiatric or psychological problems (ie. substance abuse, psychosis) and those with cognitive impairments (ie. dementia).			

Department of Obstetrics and Gynecology (OB-Gyne)

		Very ready	Ready	Moderate	Less ready	Not at all
1	Performing a complete history and physical examination of OB-Gyne patients.					
2	Interpreting labor curves and fetal monitor strips.					
3	Performing PAP smears.					
4	Performing internal examinations (IEs).					
5	Managing patients from labor until delivery via normal spontaneous vaginal deliveries (NSVD).					
6	Assisting in OB or Gyne minor or major surgeries					
7	Demonstrating mastery of etiology, pathophysiology, clinical presentation, differential diagnoses, diagnostic work-up and management of OB-Gyne cases.					
8	Performing a Gram stain of the vaginal discharge.					

Department of Surgery

		Very ready	Ready	Moderate	Less ready	Not at all
1	Performing a complete surgical history and physical examination.					
2	Attending and scrubbing major and minor surgical procedures.					
3	Performing suturing.					

4	Performing incision and drainage (I & D).			
5	Performing wound dressing.			
6	Performing a Foley catheter insertion.			
7	Demonstrating mastery of etiology, pathophysiology, clinical presentation, differential diagnosis, diagnostic work-up and management of assigned cases			
8	Performing physical and psychological preoperative care of the patient			
9	Performing physical and psychological postoperative care of the patient			-

Department of Internal Medicine

		Very ready	Ready	Moderate	Less ready	Not at all
1	Performing a complete history and physical examination in adult patients.					
2	Performing an NGT insertion.					
3	Performing and interpretation of arterial blood gas analysis.					
4	Performing urethral catheterization.					
5	Performing a digital rectal exam.					
6	Performing and interpreting a PPD test.					
7	Interpretation of Chest radiography results					
8	Demonstrating mastery of etiology, pathophysiology, clinical presentation, differential diagnosis, diagnostic work-up and management of assigned cases					

Department of Pediatrics

		Very ready	Ready	Moderate	Less ready	Not at all
1	Performing a complete history and physical examination in pediatric patients.					
2	Attending neonatal delivery and care including Ballard Scoring.					
3	Performing venipuncture.					
4	Performing and interpretation arterial blood analysis.					
5	Giving the appropriate vaccine according to the correct dosing schedule and correct route of administration.					
6	Knowing the indications, contraindications, precautions, and adverse reactions of the commonly given vaccines.					
7	Demonstrating knowledge on which vaccines are covered by the Philippine National Immunization Program from those that are to be availed in private clinics.					

8	Performing NGT/OGT insertion.			
9	Performing urethral catheterization.			
10	Performing and interpreting a PPD test.			
11	Performing a CBG monitoring.			
12	Demonstrating mastery of etiology, pathophysiology, clinical presentation, differential diagnosis, diagnostic work-up and management of assigned cases.			

Department of Family and Community Medicine

		Very ready	Ready	Moderate	Less ready	Not at all
1	Identifying problems commonly encountered in rural medical practice (eg. family planning, food storage and hygiene, mismanagement of resources).					
2	Formulating and managing team approach in implementing health programmes.					
3	Demonstrating knowledge and skills in preventive and curative health medicine.					
4	Doing data collection, compilation, tabular and graphical presentation, analysis and interpretation of data gathered.					
5	Constructing a thorough family dynamics analysis (eg. Family profile, Family genogram, Family life cycle, Family APGAR I, Family map, Family illness trajectory, Smilkstein's cycle of Family function)					
6	Making a community-oriented analysis (eg. SCREEM, Family ecomap)					
7	Doing family and/or community visits for their patients on a regular and rotating basis.					
8	Conducting appropriate health education, environmental sanitation, and nutritional counseling for public health awareness.					
9	Doing online consultations through Telemedicine.					

B Patient Management

		Very ready	Ready	Moderate	Less ready	Not at all
1	Agreeing on a satisfactory management plan with the involvement of your patient					
2	Behaving with respect for patients					
3	Discussing treatment options, including relative risks and benefits, with patients					
4	Discussing medication, including unwanted effects, with patients					
5	Understanding the impact of patient's social / cultural environment on their condition					

6	Understanding the impact of patient's condition on their psychological / emotional wellbeing			
7	Taking opportunities to promote health and prevent disease			

C Communication and team-working

	Communication and team-working	Very ready	Ready	Moderate	Less ready	Not at
		ready			reauy	an
1	Communicating effectively with patients and the patient's family / carers.					
2	Working harmoniously with colleagues.					
3	Working effectively in a multidisciplinary team.					
4	Collaborating and working well with the paramedical hospital staff (nurses, medtechs, PT/OT, non-medical staff, etc.)					
5	Maintaining good interpersonal relations with the paramedical hospital staff (nurses, medical technologist, PT/OT) and the non-medical hospital staff.					
6	Seeking help and advice from senior colleagues.					
7	Handover to colleagues.					
8	Teaching colleagues.					
9	Answering sympathetically to the verbal and non-verbal cues and needs of my counterpart (empathy).					
10	Adapting my manner to my counterpart in wording, voice modulation, speech rate, etc. (verbal expression).					
11	Motivating my counterpart in the conversation by using non-verbal techniques (non-verbal expression).					

D Clinical Guidelines and Protocols

		Very ready	Ready	Moderate	Less ready	Not at all
1	Making patient safety a priority in your clinical practice.					
2	Understanding the legal framework of medical practice.					
3	Understanding medical ethical principles, including confidentiality and informed consent.					
4	Practicing infection control.					

E Personal Development and Wellbeing

	Very ready	Ready	Moderate	Less ready	Not at all
1 Being aware of your own limitations.					

2	Prioritizing tasks / time management.			
3	Being responsible for self-directed lifelong learning and professional development.			
4	Managing your own health, including stress.			
5	Coping with responsibility.			
6	Coping with uncertainty.			
7	Working independently, where appropriate.			

CERTIFICATION

STATISTICIAN'S REPORT ON THE INSTRUMENT RELIABILITY and INTERNAL CONSISTENCY OF THE STUDY:

"Perceived Clinical Readiness of Senior Medical Students as Outcomes of Online Clerkship in Cebu, Philippines: New Normal in Medical Education"

A commonly accepted rule of thumb for describing internal consistency and reliability using Cronbach's alpha is as follows:

Cronbach's alpha	Internal consistency
α≥0.9	Excellent
0.8 ≤ α < 0.9	Good
0.7 ≤ α < 0.8	Acceptable (Surveys)
0.6 ≤ α < 0.7	Major Revisions
0.5 ≤ α < 0.6	Poor
α < 0.5	Unacceptable

TRAVER: Taber, K.S. The Use of Cronbach's Alpha When Developing and Reporting Research Instruments in Science Education. Res Sci Educ 48, 1273–1296 (2018). https://doi.org/10.1007/s11165-016-9602-

FINDINGS:

Using the Cronbach Alpha's Test for Internal Consistency and Reliability, result in each dimension was found to be:

Cronbach's Alpha = 0.9828

Omitted Item Statistics

		Adj.		Squared
	Adj. Total	Total	Item-Adj.	Multiple
Omitted Variable	Mean	StDev	Total Corr	Corr
Clinical Skills [Obtaining a co	275.44	52.91	0.566774	*
Clinical Skills [Performing and	275.94	53.06	0.366620	*
Clinical Skills [Deciding which	276.38	53.00	0.489109	*
Clinical Skills [Formulating di	276.31	52.97	0.440460	*
Clinical Skills [Formulating tr	276.44	52.80	0.532073	*
Clinical Skills [Writing and do	276.88	52.89	0.455562	*
Clinical Skills [Formulating pr	276.19	52.79	0.544527	*
Clinical Skills [Keeping an acc	276.44	52.82	0.620491	*
Clinical Skills [Responding eff	277.44	52.70	0.489478	*
Clinical Skills [Dealing with p	277.63	52.64	0.528146	*
[Performing a complete history	275.94	52.53	0.792000	*
[Interpreting labor curves and	276.50	52.62	0.600921	*
[Performing PAP smears.]	276.94	52.41	0.805369	*
[Performing internal examinatio	276.81	52.42	0.705536	*
[Managing patients from labor u	277.25	52.37	0.797165	*
[Assisting in OB or Gyne minor	276.94	52.69	0.578290	*
[Demonstrating mastery of etiol	276.44	52.50	0.857158	*
[Performing a Gram stain of the	276.88	52.65	0.626107	*
[Performing a complete surgical	276.13	52.70	0.603684	*
[Attending and scrubbing major	276.69	52.73	0.710282	*
[Performing suturing]	276.75	52.39	0.772343	*
[Performing incision and draina	277.44	52.55	0.744415	*

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[Performing wound dressing]
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[Performing a complete histor_1
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[Performing an NGT insertion.]
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[Performing venipuncture.]
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[Performing a CBG monitoring]
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[Demonstrating mastery of eti_2
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[Identifying problems commonly
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Personal Development and Well_4
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Personal Development and Well_5
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Comment(s): The instrument, on the overall, obtained a Cronbach alpha value of 0.98 internal consistency from the items considered herein. The Instrument is considered EXCELLENT.

Recommendation: Instrument is good for actual implementation.

Prepared by:

March 30, 2021

Mark S. Borres, MAT-Mathematics

Statistician/International Researcher

Annex III. Informed Consent

I understand that I am being invited to participate in a survey/questionnaire activity that forms part of required coursework in Cebu Institute of Medicine. It is my understanding that this survey/questionnaire has been designed to gather information about the Perceived Clinical Readiness of Senior Medical Students. Outcomes of Online Clerkship in the Philippines. The findings of this study will serve as a stepping stone in advancing health care setting in the Philippines that will benefit the following:

Medical students. This study will allow medical students to evaluate what clinical skills they have acquired so far in the practice of medicine and to assess their level of mastery and confidence when asked to perform the following procedures during return demonstration and in the actual hospital setting. From there, students can have an insight on what areas need improvement and how to overcome the challenges of online learning.

Medical schools. Determining the impact of the alternative clerkship training programs on the clinical readiness of the medical students can guide medical schools on what to modify on their current strategies for curriculum delivery and how to formulate new ones to improve clinical skills teaching and training experience through the adapted online platform.

The community. Conducting this study will also make the community aware that containment of the virus and rapid decline of cases not only aids the healthcare workers, but it also encompasses the rehabilitation of different sectors, most especially, the education department. This will allow continuation of physician-to-patient interaction and honing of fundamental hands-on clinical skills.

I understand that my participation in this project is completely voluntary and that I am free to decline to participate, without consequence, at any time prior to or at any point during the activity. I understand that I may skip any question that I do not wish to answer. I understand that any information I provide will be kept confidential, used only for the purposes of completing this study. Any report of this research that is made available to the public will not include my name or any other individual information by which I could be identified.

All survey/questionnaire responses, notes, and records will be kept in a secure environment. I will also be provided with the raw data or the completed research output at my request.

I also understand that there are no risks and discomforts involved in participating in this activity.

I have read the information above. Completing this survey by answering the questionnaire and signing below indicates that I am 18 years of age or older and indicates my consent to participate in this research.

Signature:_	 	
Date:	 	

Please keep a copy of this consent form for your records. If you have other questions concerning your participation in this project, please contact us at:

Email address: justinrileylam@cim.edu.ph Cell Phone number: +63 917 702 9753

Annex IV. Letter of Approval from Institutional Review Board (IRB)



APPROVAL LETTER

Date: March 17, 2021

To: GROUP - 16 JUSTIN RILEY LAM

Protocol Title: Perceived Clinical Readiness of Senior Medical Students.

Outcomes of Online Clerkship in Philippines: New Normal in Medical

Education

IRB Ref No.: 2021-03-07
Submission Type: Initial Review
IRB Review Date: 3/17/21
IRB Review Type: Expedited
IRB Review Action: Approved

This is to inform you of the IRB decision related to your above referenced application for review. After review the IRB decided to approve the documents submitted effective <u>March 17, 2021</u>. Please note that the approval is valid for <u>1 year</u> and will expire on <u>March 16, 2022</u>. The PI is advised to submit a Progress Report/ Continuing Review Report 1 month before expiry date. February 16, 2022.

The approval covers the following submitted documents

- 1 Research Protocol Version 1 dated 3/1/21
- Informed Consent Version 1 dated 3/1/21

Investigator's Responsibilities:

- 1. Faithfully follow the Protocol
- Submit SAEs when applicable.
- Any changes made to the protocol must be submitted as amendment and should not be carried until after IRB approval.
- 4. To submit for continuing renewal and obtain approval before the expiration date
- Submit any Protocol Deviations / Violations/Final Report

The approval was done with the following Members in Attendance:

	Designation	Specialty
1. Dr. Manuel Emerson S. Donaldo	Chairman	Rheumatology
2. Dr. Corazon Tan-Meneses	Co-Chair	Academe(MHPEd)
3. Dr. Consolacion Cutillar	Secretary	Endocrinology
4. Dr. Irelan Evasco	Member	OBGynecology
5. Fr. Raphael Catane, SHF	Member	Priest
G. Atty. Terence Fernandez	Member	Law
7Dr. Saleshe Tracy Fernandez	Member	Surgeon
8. Dr. Andrew Cuizon	Member	Opththalmology
9. Dr. Rudy Amatong	Member	Pediatrics
10.Dr. Ma. Christina Gravador	Member	Family Medicine
11. Mdm Charito Calumpang	Member	Lay

You may contact the undersigned through 0917-3204149 for any clarifications related to this communication.

Truly yours,

Manuel Emerson S. Donaldo, M.D.

Chairman

CIM -CVGH- IRB