Appendix 1. Problems in Conduct of Thesis during COVID-19 Pandemic in India: A Nation-Wide Survey of Postgraduate Medical Students (PROCON THESIS)

The effect of the coronavirus disease 2019 (COVID-19) pandemic on the conduct of thesis work of postgraduate medical students: a nationwide survey

This survey is to find out the problems in the conduct of thesis-related work by postgraduate medical students who have been on the front line in the management of pandemic in India.

I. [Demographics
	Which of the following type of hospital you belong? Mark only one oval. State government medical college and hospital Central government medical college & hospital Private medical college & hospital Corporate hospital
	Which of the following courses you are currently following/were in the last 1 year as a trainee? Check all that apply. MD (Doctor of Medicine) MS (Master of Science) DM (Doctor of Management) MCh (Magister Chirurgiae) DNB (Diplomate of National Board) FNB/PhD (Fellowship of National Board/Doctor of Philosophy)
3. '	Which subject specialization/super-specialization you are currently pursuing?
	What is your type of study? Mark only one oval. Randomized controlled trial Prospective observational (cohort or case control) Retrospective Descriptive
	Was your study related to COVID-19 patients? Mark only one oval. Yes No
	How frequently is your departmental meetings being held to review thesis progress? Check all that apply. Before pandemic After pandemic
i	·
	Every 6 months
1	Every year
	Only at protocol initiation
i	Twice: at protocol initiation and final submission

II. Effect of pandemic on thesis/research project

7.	w is your thesis work/research project impacted by the pandemic? ark only one oval. Strongly affected Moderately affected Mildly affected Not affected Benefitted	
8.	problems did you face in the conduct of thesis at the time of ongoing COVID-19 pandemic (multiple options can be selected). eck all that apply. Problem in finding feasible thesis topic Early fall out of cases from intervention/control arms/loss to follow-up (e.g., recruited patient turning positive) Changing of inclusion/exclusion criteria in the middle of the conduct of study to achieve the sample size Problems in recruitment Procedural limitation (e.g., risk of aerosol generation/risk of infection) Posting to unrelated thesis COVID-19 areas Prolonged illness (self/family)/self-quarantine Post-COVID-19 status of recruited patients leading to exclusion/delay in the recruitment in the study Less availability of guide/mentor to review the progress because of the COVID-19 work No problem	
9.	mat were the problems in recruitment of cases? (multiple options can be selected.) eck all that apply. Decrease footfall of non-COVID-19 patients to hospital Patient profile is different from the usual non-pandemic times Problems in time management due to covid duties(prolonged duties, exhaustion) Limited open service areas (e.g., elective OT, limited procedures, limited intensive care unit (ICU) beds, limited samples) Shortage of equipment, manpower, and drugs for the conduct of the study (as these shunted to COVID-19 care) Difficulty in achieving consent from patients Difficulty to conduct because of lockdown/transport issues I didn't face any problem in recruitment/enrollment of cases	
10	ave you achieved your sample size in the thesis submitted/done in the current year? ark only one oval. Yes, submitted and sample size achieved No, submitted without achieving full sample size Yet to submit and anticipated sample size achieved Yet to submit and anticipated sample size not achieved	
11	id your local IEC/University provide you with a relaxation on the timing for submission of thesis protocols/final manuscript? ark only one oval. Yes No	

12. What are alternative options to mandatory thesis submission for getting degree? (need to select each row.)

Mark only one oval per row.						
		Strongly disagree	Disagree	Neither agree/ disagree	Agree	Strongly agree
Systematic reviews/meta-analysis as alte	rnative					
Departmental audits & presentation in na	tional conferences					
Publication of 2 or more case reports as author indexed journal	first/corresponding					
Publication of protocol/original idea in a	n indexed journal					
Portfolio/logbook of self in departmental publication (team-based research rather approach)						
Task-based assessment of research method a protocol/project for a problem during						
13. What suggestions to improve the qualit Mark only one oval per row.	y of thesis work?	(need to select	each row.)			
		Strongly disagree	Disagree	Neither agree/ disagree	Agree	Strongly agree
Research methodology training must be submission	fore protocol					
Permission to conduct thesis post-submis sample size	sion to achieve a					
Collaborative studies involving multiple do or more students (submitting the same thesis)						
Research should be separated from clinical exclusive time for research in a week	-					
Biostatistics department in medical college t	o facilitate research					
Financial incentive (for peer-reviewed or	iginal idea)					
14. Any other suggestion						

15.	How was the pandemic best utilized by you? (on a scale of 0 Mark only one oval per row.	0 to 10.)			
		7–10	5–7	2-5	0-2
	As a front line worker in COVID-19/emergency areas				
	Self-study				
	Attending webinar & elearning portals				
	Thesis/research project related work				
III.	Demographics				
16.	Which of the following type of hospital you belong? Mark only one oval. State government medical college and hospital Central government medical college & hospital Private medical college & hospital Corporate hospital				
	Which of the following courses you are currently following/wer Check all that apply. MD MS DM MCh DNB FNB/PhD		as a trainee?		
18.	Which subject specialization/super-specialization you are currently	pursuing?			
19.	What is your type of study? Mark only one oval. Randomized controlled trial Prospective observational (cohort or case control) Retrospective Descriptive				
20.	Was your study related to COVID-19 patients? Mark only one oval. Yes No				

21. How frequently is your departmental meetings being held to review thesis progress? Check all that apply.

	Before pandemic	After pandemic
Every 6 months		
Every year		
Only at protocol initiation		
Twice: at protocol initiation and final submission		
No departmental meetings/only review by the guide		

	No departmental meetings/only review by the guide			
IV.	Effect of pandemic on thesis/research project			
22.	How is your thesis work/research project impacted by the pand Mark only one oval. Strongly affected Moderately affected Mildly affected Not affected Benefitted	emic?		
23.	What problems did you face in the conduct of thesis at the to Check all that apply. Problem in finding feasible thesis topic Early fall out of cases from intervention/control arms/loss Changing of inclusion/exclusion criteria in the middle of to Problems in recruitment Procedural limitation (e.g., risk of aerosol generation/risk Posting to unrelated thesis COVID-19 areas Prolonged illness (self/family)/self-quarantine Post-COVID-19 status of recruited patients leading to exclude the progress of the	to follow-up (e.g., recri he conduct of study to of infection) lusion/delay in the recrui	uited patient turning positive) achieve the sample size tment in study	n be selected.
24.	What were the problems in recruitment of cases? (multiple opti Check all that apply. Decrease footfall of non-COVID-19 patients to hospital Patient profile is different from the usual non-pandemic t Problems in time management due to COVID-19 duties (Limited open service areas (e.g., elective OT, limited profice of the conduct of	imes prolonged duties, exhaus cedures, limited ICU bed t of study (as these shu	s, limited samples)	

	Mark only one oval. Yes, submitted and sample size achieved No, submitted without achieving full sample size Yet to submit and anticipated sample size not achieved Yet to submit and anticipated sample size not achieved								
	Did your local IEC/university provide you a relaxation on time. Mark only one oval. Yes No	ning for submiss	sion of thesis p	rotocols/final manu	script?				
	What are alternative options to mandatory thesis submission Mark only one oval per row.	n for getting de	gree? (need to	select each row.)					
		Strongly disagree	Disagree	Neither agree/ disagree	Agree	Strongly agree			
	Systematic reviews/meta-analysis as alternative								
	Departmental audits & presentation in national conferences.								
	Publication of 2 or more case reports as first/corresponding author indexed journal.								
	Publication of protocol/originalidea in anindexed journal								
	Portfolio/logbook of self in departmental projects/manuscript publication (team-based research rather than student alone approach)								
	Task-based assessment of research methodology (e.g., planning a protocol/project for a problem during exam)								
28. What suggestions to improve the quality of thesis work? (need to select each row.) Mark only one oval per row.									
		Strongly disagree	Disagree	Neither agree/ disagree	Agree	Strongly agree			
	Research methodology training must before protocol submission								
	Permission to conduct post-submission of the thesis to achieve sample size.								
	Collaborative studies involving multiple departments with 2 or more students (submitting the same but good quality thesis)								
	Research should be separated from clinical work (e.g., fixed exclusive time for research in a week/month)								
	Biostatistics department in medical college to facilitate research								
	Financial incentive (for peer-reviewed original idea)								

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29. Any other suggestion					
30. How was the pandemic best utilized Mark only one oval per row.	red by you? (on a scale	of 0 to 10)			
		7–10	5–7	2-5	0–2
As a front line worker in COVID	-19/emergency areas				
Self-study					
Attending webinar & elearning p	ortals				
Thesis/research project related wo	nrk				