

HumanIC - Human - Centric Indoor Climate for Healthcare Facilities Project 101119726

Individualized support to the doctoral student

INTRODUCTION

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Clinical Microbiology and Infectious diseases

Hospital General Universitario Gregorio Marañón

Research institute Gregorio Marañón

Centro de investigación biomédica en red en Enfermedades Respiratorias (CIBERES)

University Complutense of Madrid, Spain







HumanIC project has received funding from the European Union's Horizon Europe research and innovation program under the Marie Sklodowska-Curie (HORIZON-MSCA-2022-DN-01, project no 101119726

Funded by the European Union

Welcome & Objectives



• Meeting objectives: personalized mentorship. Support

supervisors and doctoral graduates integrate:

- in clinical settings
- into different future workplaces
- The experience of Clinical Microbiology/Infectious Diseases physicians.



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the European Union



Why This Topic Matters

- Importance of mentorship for academic success
 - Identifying and building on each student's unique competences
 - Encouraging self-assessment and reflection
- Increasing diversity in doctoral pathways
- Clinical settings present unique supervision challenges



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Impact of individualized support



Academic success



Emotional well-being



Professional growth

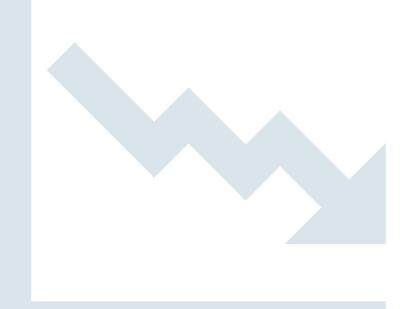


Higher levels of stress



Isolation

High dropout rates in PhD programs





Which doctoral students need more individualized support?

- Doctoral candidates with nontraditional paths
 - **Diverse** academic, cultural or professional backgrounds
 - More interdisciplinary, flexible, or clinical-academic tracks
- Trend towards **customized supervision** approaches
 - **Competency-based** vs. time-based progress
 - Individualized learning plans in doctoral education





Hospital and University



Facultad Medicina, Universidad Complutense Madrid. UCM



Hospital General Universitario Gregorio Marañón



Funded by the European Union

Multidisciplinary research



Funded by



Co-authors institutions



Co-authors speciality

Individual Development Plans

Communication Styles & Tools

- Transparent, respectful, timely dialogue
- Use of logs, shared calendars, supervision contracts

Expectations & Boundaries

- Clarifying roles
- Time commitments, meeting norms, availability

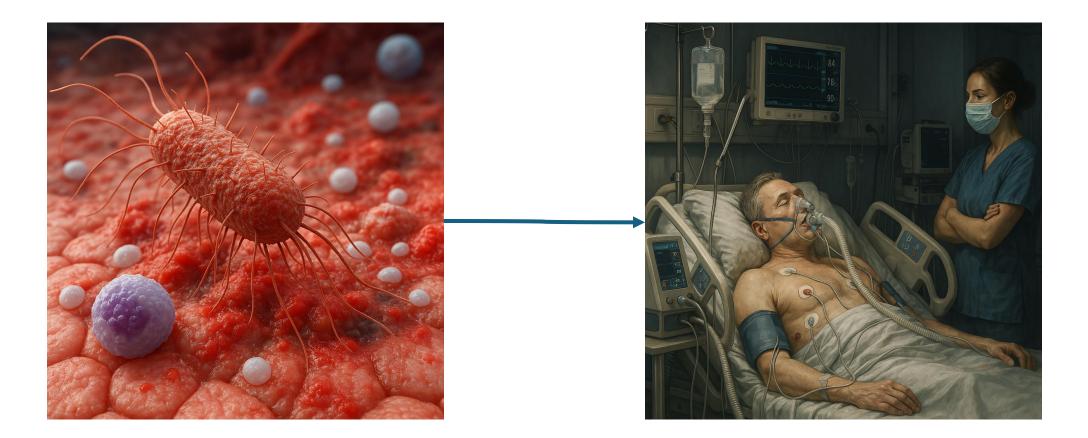


Jesús Guinea Clinical Microbiology and Infectious Diseases jguineaortega@yahoo.es



- Jesús Guinea:
 - Degree in Pharmacy (1996)
 - Clinical Microbiology Training (2002)
 - PhD in Microbiology (2005)
 - Research activity on Clinical Mycology (2002-present)
 - Gregorio Marañón teaching hospital





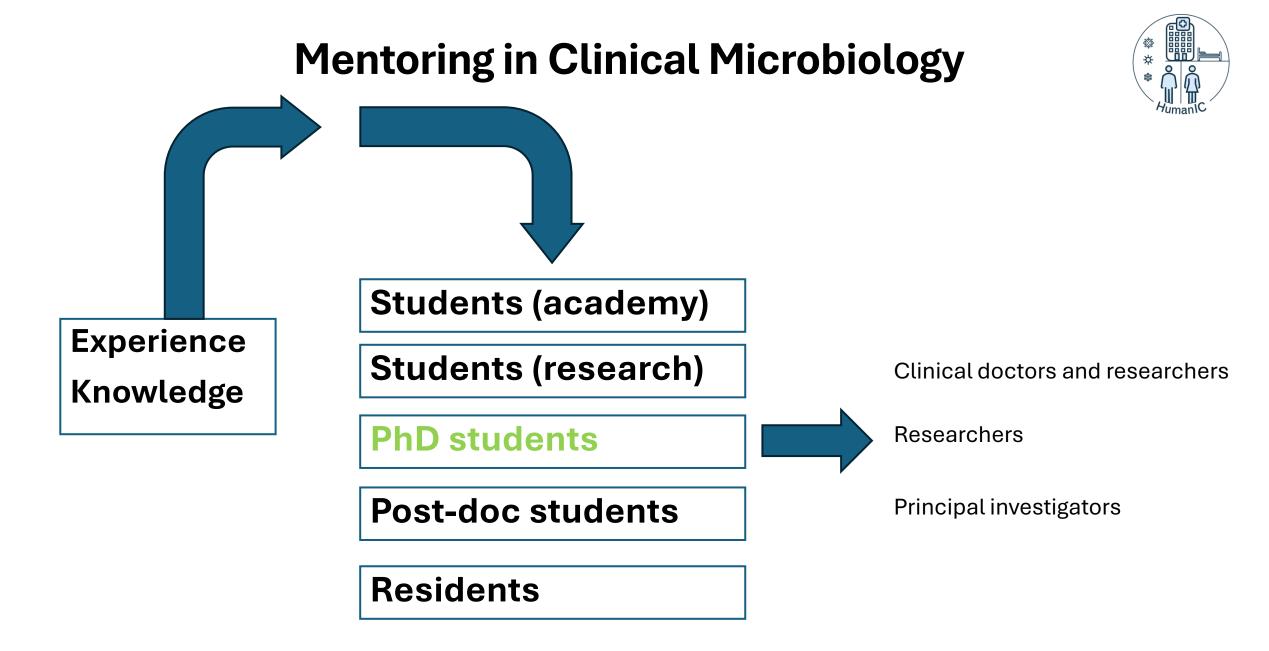
TRANSLATIONAL RESEARCH

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Why do we need to research on clinical microbiology?

- Epidemiology of infections
- Diagnosis of infections
- Factors predisposing to infections
- Species involved in infections
- Detection of resistance
- Clinical outcomes (treatment and management)
- Environmental sources (niches of pathogens, outbreaks)

We firmly believe that by doing that, we can offer a better care to patients in the long term



Getting a PhD takes a lot of effort You will have to work extra-hours You will get frustrated You will be tempted to give up

> And you may ask yourself, "Well, how did I get here?" Once in a lifetime (Talking Heads)



But it is really worth doing and inspiring It's like crossing the finish line after a marathon



What a student must have learnt when completing their PhD



Let's do not forget that we are training new scientists

CORE COMPETENCES

How to read a paper on clinical microbiology How to detect an area or topic of potential interest How to elaborate a scientific question How to engineer and design a scientific study How to perform data analysis (including statistics) How to transform raw data into deliverable information (tables, graphs, etc.) How to prepare an abstract for a scientific meeting (and present at the meeting if accepted) How to write a paper (and get it accepted in a journal!) How to write the PhD document How to give a speech (particularly important to defend the PhD) How to draft a scientific project Paperwork (ethics committee, hospital permissions, funder follow-up, etc)

The importance of the topic

- Why is it important/relevant?
- Define well the subject to study on
- Basic bibliography
- Survey the literature and update relevant articles

Engineering the PhD project

- Outline the study objectives
- Assessment of resources
- Weaknesses and strengths
- Chronology of the project

Demand to mentor 95%

Initial training (1-6 months)

- Learn basic laboratory tools to carry out the project
- Get familiar with the team dynamics
- Problem solving (promote independence to find out solutions)
- Demand to mentor 80%





Mid training (7-36 months). Experimental part

- Carry out the experimental part of the project
- Data analysis
- Periodic supervising (to detect potential deviations)
- Demand to mentor 20%



Mid training (7-36 months). Data delivery. Scientific meetings

- Opportunity to report preliminary data:
 - Training in poster drafting
 - Training in oral presentations
- Opportunity to discuss your results with colleagues
- Meeting with relevant scientists on your field
- Update your knowledge and news about your topic

Mid training (7-36 months). Data delivery. Scientific meetings

• Set policy of (outstanding) meetings attendance



• Our PhD students attend at least one international meeting during

their training period (commonly three times)

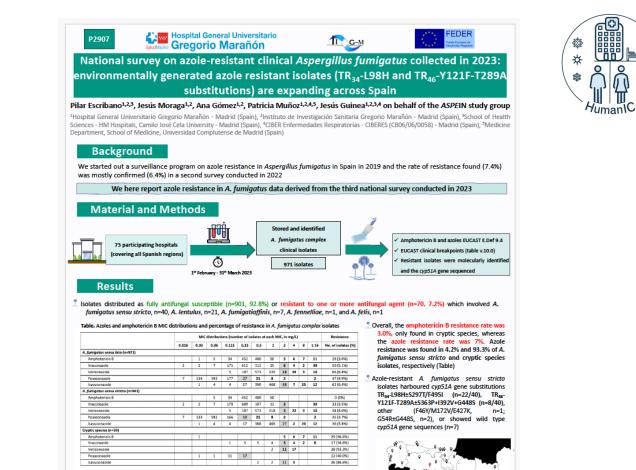
Rezafungin showed high *in vitro* activity and very low resistance rate against a collection of yeasts causing fungaemia in patients admitted to a tertiary hospital in Madrid from 2014 to 2024

Pilar Escribano^{1,2,3}, Ana Gómez^{1,2}, Almudena Burillo^{1,2,4}, Patricia Muñoz^{1,2,4,5}, Jesús Guinea^{1,2,3,5} ¹Ginical Merokology and Intection: Diseases, Hospital General Universitario Gregorio Marsiñon, Madrid, Spair, 'Instituto de Investigación Sanitaria Gregorio Marsiñon, Madrid, Spair, 'Faculty of Health Science - HM Hospitals, Universidad Camilo José Cela, Madrid, Spair, 'Medicine Department, Faculty of Medicine, Universidad Complutenze de Madrid, Madrid, Spain, 'GIBER Enfermedades Respiratorias - OBBRES (2006)00,0058), Madrid, Spain

Background	Materials and Methods						
Rezafungin is a new echinocandin recently launched and approved	Incident fungaemia yeasts isolates (n=537)						
for the treatment of invasive candidiasis/candidemia	525 patients; 12 patients had mixed fungaemia						
EUCAST has recently released specific recommendations for rezafungin susceptibility testing and set clinical breakpoints, but	🕼 Gregorio Marañón Hospital (Madrid, Spain)						
data generated at different institutions is needed, particularly	S January 2014 to October 2024						
before the drug use in the hospital setting	Rezafungin activity was studied by the EUCAST E.Def						
Objective	7.4 procedure; Tween 20 was added into the broth medium						
We studied the susceptibility of a collection of blood culture fungaemia isolates to rezafungin and assessed the rate of antifungal resistance to the drug	Minimum inhibitory concentration (MIC) was defined as the lowe concentration reaching 2 50% of fungal growth inhibition compared to ti drug-free control well; breakpoints were used to assess the percentage resistance (Table 1)						
Resu	ılts						

🍈 Species distribution of isolates and rezafungin MIC distributions against the isolates studied are shown in Table 1

Species (no. of isolates)								_	jin MK									
	≤0.0002												1	2	4	8	16	232
C. albicans complex (n=232)	25	60	134	8	3	2	0	0	0	0	0	0	0	0	0	0	0	-
C. parapsilosis complex (n=141)	0	0	0	0	0	0	0	0	0	0	4	24	53	57	3	0	0	-
C. glabrata complex (n=82)	0	0	0	0	10	69	0	0	2	0	0	0	0	1	0	0	0	-
C. tropicalis (n=37)	0	0	0	0	1	30	6	0	0	Q	Q	0	0	Q	0	0	0	-
C. krusei (n=18)	0	0	0	1	1	7	9	0	0	0	0	0	0	0	0	0	0	-
C. dubliniensis (n=4)	0	0	1	0	2	0	1	0	0	0	0	0	0	0	0	0	0	
Other Candida spp (n=11)	1	0	0	0	2	1	1	0	0	0	2	4	0	0	0	0	0	-
Non-Candida spp (n=12)	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	4	5	1
							F	KS ge	ne su	bstitu	tions	Tabl	e 2)					
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S			· ·				F	Table	2. Rez	afung		tant			solate			
values against C. glabrata,			· ·				F	Table	2. Rez	afung ata	in-resis	tant MIC	, C. gla : (mg,	/L)	_	FKS2	gene	
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values against C. glabrata,	C. tropic	alis, aı	nd C. I	kruse	i were	e in	F	Table	2. Rez	afung ata	in-resis RE	tant MIC	, С. gla (тв, ИІСА	/L)	_	FKS2	tution	
values against C. glabrata, o between	C. tropic andida sp	alis, ai op isola	nd C. I	kruse s ven	i were y limite	e in ed	F	Table	2. Rez glabr isolati	afung ata	in-resis RE	tant Mic ZA N 06 (, С. gla (тв, ИІСА	/L) ANID	_	<i>FI</i> KS2 substi	tution 085	
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Values shaded in grey inficate MICs within the area of technical uncertainty (ATU) translated as resistant lookets as follows: posaconatole (A. fumigotus sensu loto [m14/27]: A. fumigotus sensu loticit [m2/20]; complix species [m3/27]] and sewaconeole (A. fumigotus sensu loto [m2/48]]. A fumigotus sensu loto [m2/248]. A fumigotus sensu lotic [m2/27]; expirite species [m2/21]: Values in solid inclute results in trainies according to IUCSAT clinical benefacionate late [m2/248]. A fumigotus sensu strick [m2/27]; expirite species [m2/21]: Values in solid inclute results in trainies according to IUCSAT clinical benefacionate late [m2/248]. A fumigotus sensu strick [m2/27]; expirite species [m2/21]: Values in solid inclute results in trainies according to IUCSAT clinical benefacionate late [m2/26].

Isolates harbouring the TB₂₁-L98H or TB₂₂-T12IE-T289A substitutions were detected in patients admitted to 15 hospitals located in seven regions. The presence of such isolates had been already reported in six regions (Madrid, Catalonia, Castilla León, Castilla La Mancha, Valencia, and Andalusia) in previous surveys whereas a new region (Balearic Islands) is here added to the list (Figure)

Conclusions

Figure. Map showing the cities where the 73 hospitals providing with A. furnigatus complex isolates were located Prophysics in which isolates hetrociting simu Thy-Libbi to selected

LUp to 7% of A. fumigatus complex Spanish isolates collected in 2023 were azole-resistant, a steady resistance rate being reported in Spain since 2019

Lenvironmentally generated azole-resistant isolates (TR₃₄L98H or TR₄₆-Y121F-T289A *cyp51A* gene substitutions) involved 75% of all *A. fumigatus sensu stricto* resistant isolates and seem to be more prevalent in some areas



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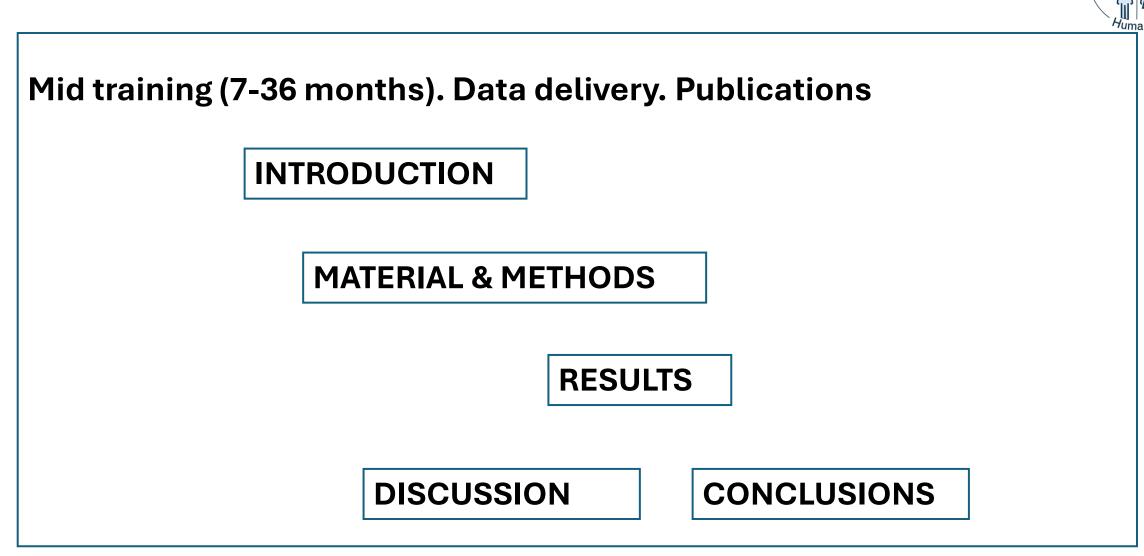
Mid training (7-36 months). Data delivery. Publications

- As a rule of thumb:
 - Posters/oral presentations should be turned into **Papers**
- Choose the most appropriate journal (aim 1st quartile journals)
- Objectives of the thesis (one objective one paper)
- Our PhD students publish about 7-8 papers as part of their PhD projects
- Demand to mentor 95%



Mid training (7-36 months). Data delivery. Publications

- Drafting a paper is one of the most difficult tasks PhD students face!
- My experience is that PhD students get the doctorate but fail to get enough competences to draft scientific papers
- Procrastination is quite common and must be early detected
- Paper production pace should be kept from year 2 to 4
- Paper production is key to get a further post-doc position





Late training (37-48 months). PhD defence

• Year 4 should be allocated to publish the latest publications, drafting the PhD

document, and thesis defence

- Papers should be backbone of the document
- Discussion of the document also takes some time
- Preparation of defence (and questions during defence)
- Demand to mentor 70%



HumanIC - Human - Centric Indoor Climate for Healthcare Facilities Project 101119726

Individualized support to the doctoral student

IN THE CLINICAL SETTING

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MINISTERIO DE ECONOMÍA

Y COMPETITIVIDAD







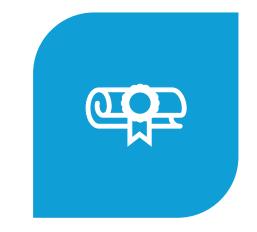
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MY OWN JOURNEY

THE HOSPITAL

RELATIONSHIP DOCTORATE STUDENT - SUPERVISOR





HOSPITAL & STUDENT DIVERSITY

Understanding student diversity



• Diverse backgrounds, diverse needs

- Clinical practitioners, international students, early-career researchers
- Varying motivations, experiences, and academic goals
- Learning & working styles
 - Balancing workplace and academic responsibilities
 - Independent vs. collaborative learners



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"Career Anchors" by Edgar Schein

- 1. Technical/Functional Competence
- 2. General Managerial Competence
- 3. Autonomy/Independence
- 4. Security/Stability
- 5. Entrepreneurial Creativity
- 6. Service/Dedication to a Cause
- 7. Pure Challenge
- 8. Lifestyle



https://psycho-tests.com/test/sheins-career-anchors



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What truly drives your career decisions



Anchor	Core Motivation
Technical/Functional	Mastery in a specific skill or profession
General Managerial	Leadership, decision-making, and organizational control
Autonomy/Independence	Freedom to define how and when you work
Security/Stability	Job security and predictable future
Entrepreneurial Creativity	Innovating and building something new
Service/Dedication to a Cause	Making a meaningful difference for others
Pure Challenge	Solving tough problems, testing personal limits
Lifestyle	Harmonizing career with personal life priorities



Understand your strengths and choose the options that will bring inner satisfaction from work

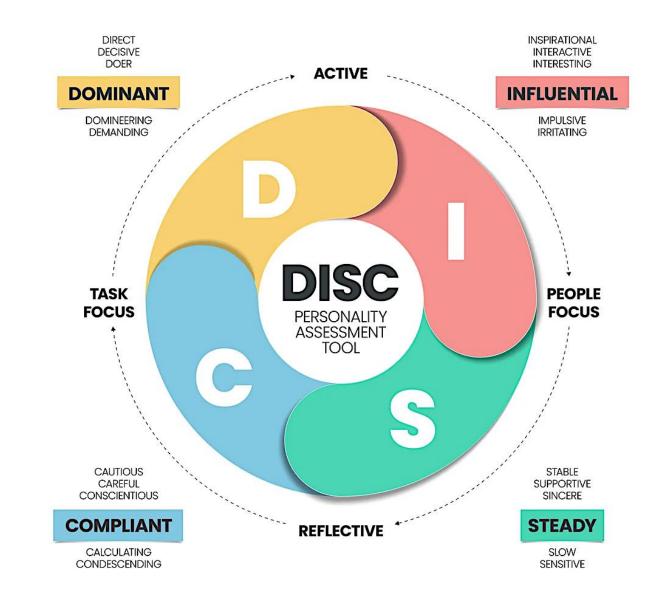


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https://psycho-tests.com/test/sheins-career-anchors

What type of leader is your supervisor?

And you?



https://careerminds.com/blog/knowing-disc-profile



Other aspects to consider

Cultural & ethical sensitivities

- Avoid assumptions about student experience
- Different ethical standards across cultures
- Sensitivity to biases in clinical care and research
- Multicultural teams and supervision

Mental health & burnout risks

- Long hours, emotional intensity, impostor syndrome
- Supervisor's role in identifying stress and burnout signals
- Also supervisor is at risk!!!!



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Clinicians undertaking a PhD

Challenges in Clinical Environments

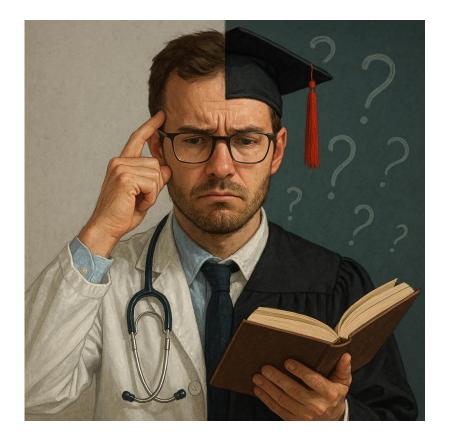
- Often part-time basis off-campus, balancing research with patient care
- Time-managing, integrating into the research environment and developing an academic identity
- Navigating institutional and regulatory constraints
- Not so many people with PhD around

Which is the main motivation?

- ich is the main motivation?
 Contact a group to get sprendige of dropouts arning?
 Get a job in the house high rate arning?
 Or really want to Very now to conduct research and prepare a PhD? Cot your correction of the second sec prepare a PhD? Get your career in a new direction



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Practical tips



- 1. Help your student **feel part** of the team and **university**
- 2. Identity shift (from skilled clinician to student) and tethered autonomy
- 3. Know each other's **boundaries**
- 4. Help your student **use their time** well
- 5. Exploit the student clinical skills (interviews, assessments, professionalism..)
- 6. Get to know your hashtags (#phdchat; #AcademicChatter; #phdlife; #AcademicTwitter; #phdchatter; #phdweekend; #parttimephd)
- 7. Be clear on expectations (productivity, rules, conflict management)
- 8. Funding
- 9. Monitor **progress**
- 10. Prepare for setbacks and **delays**
- 11. Don't underestimate the power of informal supports
- 12. Career and future planning





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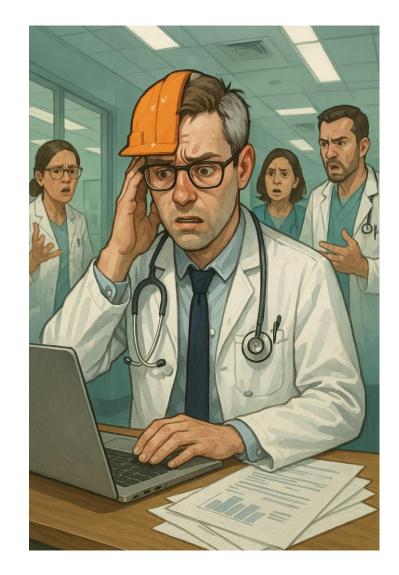


Different backgrounds are also found in the clinical setting

Backgrounds different from physicians

Biologist, Pharmacist, Food Technician,

Engineer



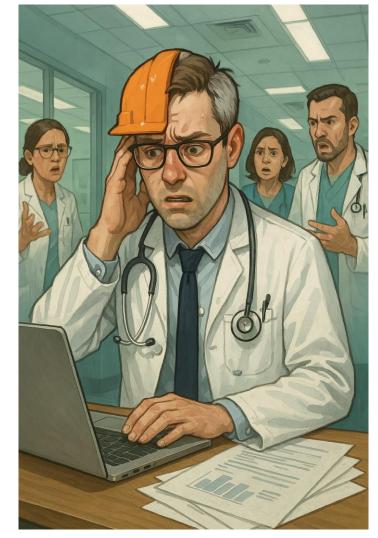


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Practical tips for non physicians

- 1. You need to understand the language
- 2. You need to really understand the problem
- 3. You need to understand physician's minds and priorities





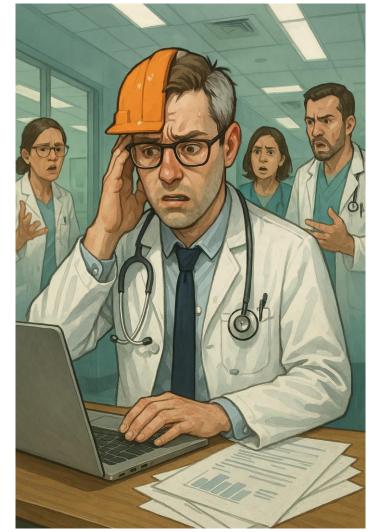


Personal opinion



- Learn the language:
 - Clinicians often speak in shorthand—medical acronyms, clinical urgency
 - Patient-first logic
 - Keep a glossary and ask questions often. Understand and communicate.
- **Respect rhythms**: Hospitals run at a different pace.
 - Be patient with scheduling and be mindful of clinical priorities.
 - Get to understand the hospital and all its problems.
- Attend clinical meetings: Observing how doctors make decisions helps you align your research goals with real medical needs.
 - You need the necessary background. Patients and families are behind.







Personal opinion



Clarify/Align Your Research Scope

• Translate tech into clinical value:

- Always ask yourself, "How would this help a doctor, nurse, or patient?"
- CONTRIBUTE TO THE ORGANIZATION

• Get feedback early:

 Share initial prototypes or conceptual frameworks with clinicians—they'll help catch unrealistic assumptions fast

Simplify without dumbing down:

• Explain your work in a way that engages nonengineers without losing its scientific integrity









- **Define what success looks like**—for both yourself and your clinical collaborators
 - Not just publication count
- Set communication boundaries:
 - It's okay to not respond instantly to every request
 - Define availability clearly
- Find allies:
 - Connect with other researchers embedded in clinical environments—they've probably felt the same kind of overwhelm





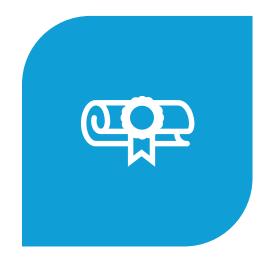


X Use Tools That Help You Adapt

- Visualization software to make abstract ideas more accessible.
- Shared digital workspaces like <u>hospital</u>approved cloud drives to foster collaboration.
 - Confidenciality is KEY. Informed consents. Hospital protocols
- Versioned documentation so you can show how your thinking evolved based on clinical feedback







RELATIONSHIP

DOCTORATE STUDENT - SUPERVISOR



Individualized support, OF COURSE





But ... a coin has two sides

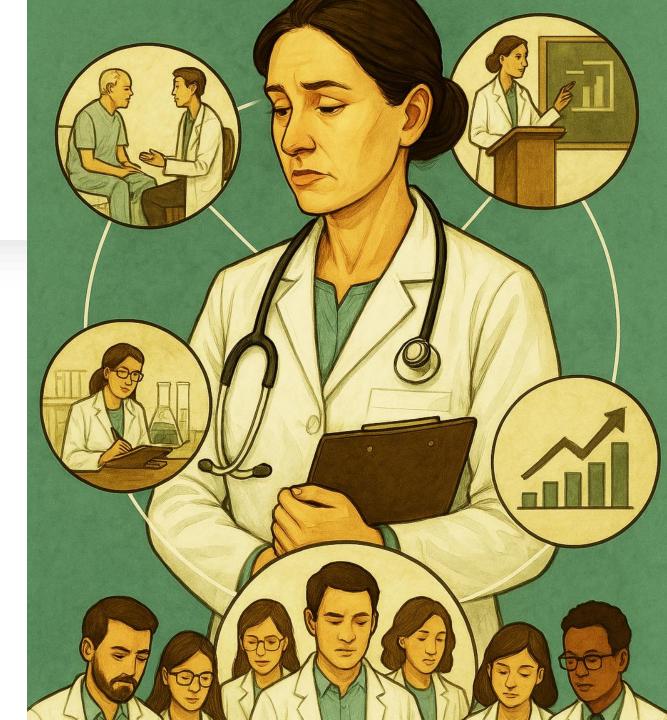
• The role of a doctoral supervisor is NOT to treat students like children or constantly monitor their emotional states



- Our responsibility lies in fostering academic growth, critical thinking, and independent research
- At this stage, we already are two professionals

The PhD student's world revolves around one thesis, while the **CLINICAL supervisor's daily reality is a** whirlwind of mentoring, healing, teaching, researching, reporting and managing

Your supervisor is not only yours, and probably you are not the priority



Bidirectional relationship



When we give with joy, we also need to receive with joy.



Supervisor

- Shared experience
- Supportive guidance
- Role modeling
- Support learning
- Psychological safety

Student

- Joyful enthusiasm
- Mutual trust
- Committed work
- Open communication
- Intellectual stimulation

Leadership

What People Get Wrong About Psychological Safety

Six misconceptions that have led organizations astray. by Amy C. Edmondson and Michaela J. Kerrissey

From the Magazine (May-June 2025)



6 Key Misconceptions about psychological safety

- **1. Means Being Nice** True psychological safety allows for respectful disagreement, not just comfort
- 2. Means Getting Your Way– Safety supports candor, not consensus
- **3. Means Job Security** It's about openness, not immunity from consequences
- **4.** Requires a Trade-Off with Performance In fact, it enables higher performance through learning and innovation
- 5. Is a Policy or checklist It's a dynamic team culture, not a static rule
- 6. It's top-down only Everyone contributes to building it, not just leaders

What It Really Means: A shared belief that it's safe to speak up, ask questions, and admit mistakes—without fear of humiliation or punishment

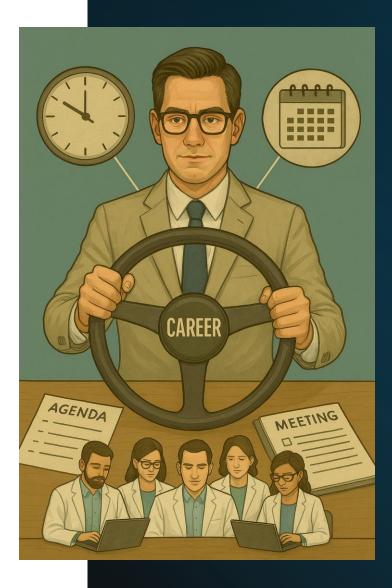
AC Edmondson & MJ Kerrissey Harvard Business Review, May–June 2025

Message for pHD students: You are at the steering wheel

You are a true profesional in the field, no longer in a junior role

You are in control. You deserve to be here, in higheducation world

- Set agendas, meetings, timelines
- Prepare the meetings (questions, ideas), keep timing
- Speak up. What feedback you need
- It is normal to have phases of push and pull



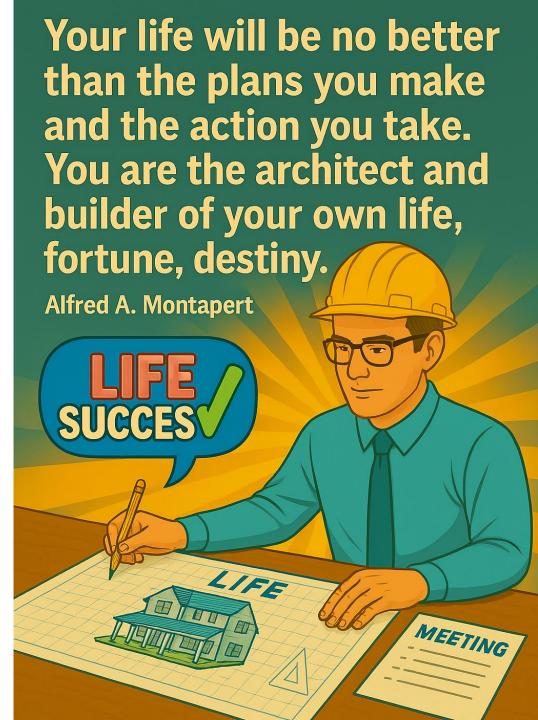
Planification is key

"Your life will be no better than the plans you make

and the action you take. You are the architect and

builder of your own life, fortune, destiny."

Alfred A. Montapert



Everybody is an individual

Supervisors also need mentorship and training

We want, and need, the student to succeed

We want to develop the researcher, not just the research

Help us to help you

