

Waqar M. Naqvi

Ph.D PT, Ph.D HPE (ABD), International FAIMER Institute Fellow, MPT



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Professional Summary

Healthcare professionals with extensive expertise in integrating AI, AR, and VR into healthcare education and practice. With 205 peer-reviewed publications and an h-index of 19, my work has been published in *Frontiers in Public Health*, *Medical Education*, and *the Archives of Physical Medicine and Rehabilitation*. I hold three patents in healthcare technology and manage copyrights effectively.

Expertise and Competencies:

- **Research Management:** Developed research facilities and centres of excellence, leading to increased research output. Implemented programs fostering a research culture among faculty and students, resulting in more high-impact publications.
- **International Collaboration:** Formed partnerships with global universities, developed joint degree programs, facilitated international admissions, and expanded global mobility programs through targeted marketing.
- **Educational Technology Integration:** Led initiatives to develop and implement simulations and virtual labs, enhancing practical learning experiences for students.
- **Strategic Planning and Global Engagement:** Created and executed detailed internationalisation plans, setting measurable engagement goals to expand the university's global reach.
- **Intellectual Property Management:** Promoted patent filing and IP management, resulting in multiple patents and copyrights.
- **Industry Partnership Development:** Established partnerships with industry leaders, facilitating collaborative research projects and student internships, aligning academic programs with industry needs.

My leadership is guided by my commitment to ethical practices and sustainable development in healthcare education and research. I align educational services with technological advancements to meet global healthcare needs, ensuring that I can be an asset to any forward-thinking organisation seeking to enhance its educational and research capabilities.

Education

Fellow, International FAIMER Institute, USA 2024 - 2025

Ph.D. in Health Professions Education 2023 - 2026

Datta Meghe Institute of Higher Education and Research, India.

Thesis: Development of PhyCaRe: An Extension of the Case Report (CARE) guideline for physiotherapy using the Delphi method.

Ph.D. in Physiotherapy 2019 - 2022

Datta Meghe Institute of Higher Education and Research, India.

Thesis: Impact of gamification versus conventional rehabilitation on pain, range of motion, muscle strength, and functional independence post distal radius fracture.

Master of Physiotherapy (Community Health and Rehabilitation) 2007 - 2009

Pravara Institute of Medical Sciences, India

Bachelor of Physiotherapy 2000 - 2005

Maharashtra University of Health Sciences, India.

Research Training And Projects

Summer Intern Gait and Motion Lab, Dept. of Rehabilitation Sciences, *Hong Kong PolyU*, HK.

Coursework Linear Regression, *McGill University*, Canada. Winter 2014.

Work Experience**Current Position**

Assistant Professor 2023 - Present

Department of Physiotherapy, College of Health Sciences, Gulf Medical University, Ajman, United Arab Emirates.

- Taught advanced research methodology courses to Physical Therapy students at both graduate and undergraduate levels, with a strong focus on research publication.
- Trained postgraduate students in contemporary research methods, incorporating AI and AR/VR technologies in medical education, along with research writing skills.
- Achieved a 100% satisfaction rating in recent course evaluations, indicative of exceptional educational delivery and student engagement.
- Spearheaded innovative research projects in AI and AR/VR applications in healthcare and education, promoting cross-disciplinary collaboration and leading community outreach programs for the College of Health Sciences.
- Advisory board member - *Thumbay Institute of Artificial Intelligence in Healthcare*.

Previous Positions***Associate Director of Research***

2021 - 2023

Directorate of Research, VSPM Academy of Higher Education, Nagpur, India.

- Trained and supervised undergraduate and postgraduate students in Physiotherapy, Medical, Dental, Nursing, and Allied Health Sciences.
- Aligned strategic research directions, leading to a substantial 40% increase in research output, equating to 80 additional peer-reviewed publications.
- Secured INR 2.5 million in grants, advancing healthcare technology initiatives.
- Mentored 35 copyrights and 9 patents, enhancing the institution's intellectual property portfolio.

Vice Dean, Professor and Head of the Department

2019 - 2021

Ravi Nair Physiotherapy College, Datta Meghe Institute of Higher Education and Research (DMIHER), India.

- Supervised interdisciplinary students, enhancing collaborative research across health sciences.
- Coordinated faculty development programs, contributing to an impressive 40% surge in research publications, resulting in more than 200 additional peer-reviewed articles.
- Established 5 national and international collaborations, broadening the department's global outreach. Secured 12 copyrights and 1 patent, innovating solutions in healthcare, education, staff and student exchange programs.

Associate Professor and Head of Department

2017 - 2019

LSFPEF's College of Physiotherapy, Pune, India.

- Mentored and guided over 50 undergraduate and postgraduate students, nurturing their academic growth, and fostering a strong foundation for their careers in healthcare.
- Initiated impactful community engagement programs, orchestrating health camps and awareness initiatives that directly impacted the well-being of 500+ individuals, showcasing a commitment to societal enrichment through education and outreach.
- Created specialised career development workshops, guiding students towards internships, research opportunities, and professional advancements within the healthcare landscape.

Lecturer

2014 - 2017

Department of Physiotherapy, College of Applied Medical Sciences, Buraydah Private College, Buraydah, Saudi Arabia.

- Formulated and delivered comprehensive coursework, achieving a 25% increase in student performance.
- Promoted cross-cultural understanding by coordinating academic initiatives among students.
- Implemented teaching methodologies, receiving accolades for enhancing the learning experience.

Lecturer

2012 - 2013

Department of Physiotherapy, College of Applied Medical Sciences, Qassim University, Buraydah, Saudi Arabia.

- Conducted lectures and practical sessions, receiving commendations for teaching excellence.
- Contributed to curriculum enhancement, incorporating modern pedagogical approaches.

Lecturer

2009 - 2011

Department of Physiotherapy, St. Louis Institute of Health and Biomedical Research, Bamenda, Cameroon.

- Launched community health programs, positively impacting underprivileged communities.
- Designed and implemented a student-centric curriculum, fostering holistic development.

Honours And Awards

2024	Adjunct Faculty	NKPS Institute of Medical Sciences, India.
2020	Distinguished Service Award	Indian Association of Physiotherapists.
2020	Best Teacher Award	Datta Meghe Institute of Medical Sciences, India
2013	Significant Contribution Award	Indian Association of Physiotherapists.

Fundings / Grants

2020	Department of Science and Technology, Government of India for An Apparatus For Facilitating Ultrasound Based Soft Tissue Mobilization Probe. (INR 2,50,000).
2019	Faculty Intramural Grant, Datta Meghe Institute of Higher Education and Research, India Augmented reality and its efficacy on gait training in geriatric population. (INR 97,999).

Books Authored / Edited

1. Editor, Physiotherapy in Community Health and Rehabilitation, 3rd Edition, **Springer Nature**, 2024. (In Press)
2. Editor, Physiotherapy MCQs: A Comprehensive Guide to Postgraduate Entrance and Licensing Exams, 2023, National Book Depot. ISBN - 978-8193947296
3. Co-Author (Chapter), Evidence Based Practice in Women's Health, Physiotherapy in Obstetrics and Gynaecology, 2023, JAYPEE Medical Publisher, ISBN - 978-9356961494
4. Author, Physiotherapy in Community Health and Rehabilitation, 2021, 2nd Edition, National Book Depot, ISBN - 978-8195024971.
5. Author, Physiotherapy in Community Health and Rehabilitation, 2012, First Edition, JAYPEE Medical Publisher, ISBN - 978-9350254264.

Selected Peer Reviewed Publications. (Detailed on Scholar/ORCID/SCOPUS)

1. **Naqvi, W. M.**, Shaikh, S. Z., & Mishra, G (2024). Large Language Models in Physical Therapy: Time to Adapt and Adept. *Frontiers in Public Health*, 12:1364660 doi:[10.3389/fpubh.2024.1364660](https://doi.org/10.3389/fpubh.2024.1364660)
2. **Naqvi, W.**, & Qureshi, I. (2024). Impact of gamification on pain, range of motion, muscle strength, and functional independence post distal radius fracture. *Archives of Physical Medicine and Rehabilitation*, 105(4). doi:[10.1016/j.apmr.2024.02.575](https://doi.org/10.1016/j.apmr.2024.02.575)
3. **Naqvi, W. M.**, Arora, S., & Pashine, A. (2024). ROBEM: Bridging the Gap Between Learning and Application through Innovative Research Integration. *Medical Education*, 58(5):637-638 doi:[10.1111/medu.15339](https://doi.org/10.1111/medu.15339)
4. **Naqvi, W. M.**, Gabr, M., Arora, S. P., et al. (2024). Bridging, Mapping, and Addressing Research Gaps in Health Sciences: The Naqvi-Gabr Research Gap Framework. *Cureus*, 16(3): e55827. doi:[10.7759/cureus.55827](https://doi.org/10.7759/cureus.55827)
5. **Naqvi, W. M.**, et al. (2024). AI in Medical Education Curriculum: The Future of Healthcare Learning. *European Journal of Therapeutics*, 30(2), e23-e25. doi:[10.58600/eurjther1995](https://doi.org/10.58600/eurjther1995)
6. **Naqvi, W. M.**, Arora, S. P., Pashine, A., & Gabr, M. (2024). Academic to AI-cademic: Challenges and Recommendations of Artificial Intelligence in Medical Writing. *Journal of Datta Meghe Institute of Medical Sciences University*. doi:[10.4103/jdmimsu.jdmimsu_701_23](https://doi.org/10.4103/jdmimsu.jdmimsu_701_23)
7. **Naqvi, W. M.**, Naqvi, I., Mishra, G. V., et al. (2024). The Dual Importance of Virtual Reality Usability in Rehabilitation: A Focus on Therapists and Patients. *Cureus*, 16(3): e56724. doi:[10.7759/cureus.56724](https://doi.org/10.7759/cureus.56724)
8. **Naqvi, W. M.**, Naqvi, I., Mishra, G. V., et al. (2024). The Future of Tele-Rehabilitation: Embracing Virtual Reality and Augmented Reality Innovations. *Pan African Medical Journal*, 47: 157. doi:[10.11604/pamj.2024.47.157.42956](https://doi.org/10.11604/pamj.2024.47.157.42956)
9. **Naqvi, W. M.**, & Mishra, G. V (2024). Hello AI: Is it Time for A Revolutionary Change in the Health Professional Education System?. *European Journal of Therapeutics*. <https://doi.org/10.58600/eurjther2201>
10. **Naqvi, W. M.**, Mishra, G. V., Pashine, A. A., et al. (2023). A Protocol for the Development of PhyCaRe: An Extension of the CARE Guideline for Physiotherapy Using the Delphi Method. *F1000 Research*. doi:[10.12688/f1000research.138599.2](https://doi.org/10.12688/f1000research.138599.2)
11. **Naqvi, W. M.**, Sahu, A. I., & Arora, S. P. (2023). Patient-Reported Outcome Measures in Physiotherapy: An Overview. *Journal of Datta Meghe Institute of Medical Sciences University*, 18, 331-336. doi:[10.4103/jdmimsu.jdmimsu_671_22](https://doi.org/10.4103/jdmimsu.jdmimsu_671_22)
12. Arora, S. P., & **Naqvi, W. M.** (2022). A Research Protocol on Leap Motion Tracking Device: A Novel Intervention Method in Distal Radial Fracture Rehabilitation. *PloS One*, 17(5), e0267549. doi:[10.1371/journal.pone.0267549](https://doi.org/10.1371/journal.pone.0267549)

13. **Naqvi, W. M.**, Quraishi, M. F., Arora, S. P., et al. (2022). A Novel Method for Muscle Elongation in Myalgia with Naqvi's-Dynamic Electrical Therapy Approach (DELTA): The First-Ever Case Report. *Cureus*, 14(3), e23075. doi:[10.7759/cureus.23075](https://doi.org/10.7759/cureus.23075)
14. **Naqvi, W. M.**, Qureshi, M. I., Nimbalkar, G., et al. (2022). Gamification for Distal Radius Fracture Rehabilitation: A Randomized Controlled Pilot Study. *Cureus*, 14(9), e29333. doi:[10.7759/cureus.29333](https://doi.org/10.7759/cureus.29333)
15. **Naqvi, W. M.**, & Qureshi, M. (2022). Rapid Synthesis of the Literature on the Evolution of Gamification in Distal Radial Fracture Rehabilitation. *Cureus*, 14(9), e29382. doi:[10.7759/cureus.29382](https://doi.org/10.7759/cureus.29382)

Patents

1. An Apparatus For Facilitating Ultrasound Based Soft Tissue Mobilization Probe Patent Number - 379487, Date of Grant - 20/10/2020, IP India and 2021103109, IP Australia.
2. A Dynamic Electrical Probe For Muscle Elongation (DELTA), Patent number - 481833, Date of Grant - 13/12/2023, IP India.
3. An Artificial Intelligence Based Dentist Chair, Patent application number - 202221008786, Date of publication - 06/05/2022, IP India.
4. A Sensor Based Auto Adjusted Sitting Chair, Patent application number - 202221023415, Date of publication - 06/05/2022, IP India.
5. A Mask Module For Remote Health Monitoring, Patent application number - 202221031954, Date of publication - 17/06/2022, IP India.

Journal Editorial Board

Academic Editor	PLoS ONE.
Editorial Board	European Journal of Therapeutics.
Guest Associate Editor	Frontier in Education (Digital Learning Innovations).

Selected Copyrights

1. AI-demics / AiDemics / AI, UAE - 86-2024, India - L 140367/2024.
2. Naqvi Gabr Research Framework on Research Gaps, L-131790/2023.
3. Research outcome based educational model - UAE Copyright - 257-2023.
4. Naqvi's-Dynamic Electrical Therapy Approach (Naqvi's-DELTA) - L-110331/2022.
5. Outcome-based medical students activities model (OMSA model) - L-105277/2021.
6. Knowledge transfer / Student and Staff exchange.- L-97498/2020.
7. Educational Research (ER) and its productive integration into academic teaching. - L-97567/2020.
8. StEx (InStEx and OStEx) - Student Exchange Program - L-106941/2021.

Selected Conference Presentations / Keynote / Expert Speaker

- 2024 Rehab-ulous - Learning with AI and XR, Faculty development program, KLE University, *India*.
- 2024 Digital Health, International Congress of Medicine, Beyaz Önlüklüler Derneği, *Istanbul, Turkey*
- 2024 AI : Adapt or Adept, Research Day, Gulf Medical University, *Ajman, UAE*
- 2024 AI in Medical Education, AI in Healthcare Conference, Gulf Medical University, *Ajman, UAE*
- 2024 Generative AI: Challenges and opportunities, Rochester Institute of Technology, *Dubai, UAE*
- 2023 AI in Medical Education and Research - “Reshaping healthcare with AI”, DMIHER, *India*.
- 2023 FDP - The art of presentation making. Manav Rachna Institute, *India*.
- 2023 Gamification in Distal Radial Fracture Rehabilitation, ACRM, *Atlanta, GA, USA*.
- 2023 Research: Idea, Inception and Inscription, School of Physiotherapy, *RK University*.
- 2022 Research and Innovations in Nursing, VSPM MD Institute of Nursing Education, *India*.
- 2022 How to write synopsis. Datta Meghe College of Physiotherapy, *India*.
- 2022 Research Outcome Based Educational Model, NITTE Physio Panacea - 2022, *India*.
- 2021 Importance of Research and where not to publish it. Saveetha College of Physiotherapy, *India*
- 2021 Clinical research and publication for Physiotherapists. NITTE Institute of Physiotherapy.
- 2020 Gamification – adding up AR VR to rehabilitation, 58th IAP Conference, *India*.
- 2020 Research Ecosystem Development and Publications, MGM School of Physiotherapy, *India*.
- 2020 Tips and tricks for manuscript publications. Cornerstone Organisation, *Pune, India*.
- 2020 Gamification – adding up AR VR to rehabilitation, Modern College of Physiotherapy, *India*.
- 2019 Research in Physiotherapy, Physio Summit 2019. Parul University, *India*.
- 2019 Virtual reality and Gamification, INCPT AIIMS, *India*.

Administration Roles and Impact**Convenor, International Office (DMIHER)**

- Transformed international student profile by attracting 28 African students and cultivating a vibrant multicultural community through focused recruitment strategies.
- Developed over 5 global partnerships, bolstering academic exchange programs and expanding the institution's international presence.

Permanent Invitee, International Accreditation Wing (DMIHER)

- Key contributor in obtaining accreditations from two major international bodies, enhancing global credibility.
- Aided in a 20% increase in international academic program recognition.

Founder and CEO of two startups

- **HumEN Edutech LLP** - Research and Education consultancy. www.humen.us
- **Ad Vivum Education and Research Pvt Ltd** - Developer of Vivum.app www.vivum.app

References available upon request.

Realtime CV - [Click here](#)