Martin Monteagudo Farina

Clinical Risk Manager

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Profile

I bridge clinical care, operations and technology. Hospital leaders call me in when a problem crosses those lines. I bring the clinical reality to the executive table, and the executive view back to the ward. I speak the technical language of IT, so clinicians and IT teams understand each other and find solutions together. I look at every problem through a human factors lens: how people, tasks and systems fit together.

Clinical risk manager, CPHQ-certified, with 17 years in healthcare across the UK, Spain, Saudi Arabia and the UAE, from intensive care nursing to hospital-wide risk and quality. Accreditation surveyors and the health regulator have commended my work, and it has won two healthcare awards. MPH, PG Cert in Business Analytics, two peer-reviewed papers in 2026.

Experience

Clinical Risk Manager | Dubai Health (Al Jalila Children's & Latifa Hospital) | Dubai, UAE

Mar 2025 – Present

- Lead incident analysis and Root Cause Analyses across two hospitals. The Dubai Health Authority (DHA) commended the RCA work.
- Built a SharePoint / Power Automate application with Power BI reporting for morbidity and mortality (M&M) management that tracks DHA compliance and shows Pareto views of contributing factors. Joint Commission International (JCI) surveyors commended it.
- Mentored the paediatric cardiac ICU (CICU) nurse manager and peers in quality improvement since joining. This work led to a co-authored paper on digital shift checklists (Nursing in Critical Care, 2026, see Publications).

Quality and Patient Safety Specialist | Amana Healthcare (M42) | Abu Dhabi, UAE

Jul 2021 – Dec 2024

- Built a live antibiogram in Power BI for antimicrobial stewardship. Reported resistance fell below 10% within two months of rollout. This work won the AHF 2024 Diamond Certificate for innovation in antimicrobial stewardship.
- Ran a pharmacist-led proton pump inhibitor (PPI) deprescribing initiative in long-term care. PPI use roughly halved while safety was maintained (published 2026, see Publications).
- Reported ICU readmissions falling by about 40% after a staffing restructure.
- Ran an energy-efficiency review. Electricity costs fell by about 30%. Represented M42 at COP28.
- Reviewed the enteral feeding process. The annual savings were roughly the cost of one salary.

Charge Nurse, Unit Council Chairman, Quality Committee Member | King Faisal Specialist Hospital and Research Centre | Jeddah, Saudi Arabia

Aug 2016 – Jul 2021

- Co-led the unit's Zero Harm initiative. It reached 365 days with no stage 2+ pressure injuries and no central line-associated bloodstream infections (CLABSI) in 2019.
- Served on the team that set up the COVID-19 surveillance programme for the Royal Clinic (2020–2021).
- Started a plastic-waste reduction project in the VIP/Protocol Unit (2021).

Intensive Care Nurse | Hospital Álvaro Cunqueiro (SERGAS) | Vigo, Spain

Jul 2015 – Jul 2016

- Co-led a revision of staff allocation by patient cohort to reduce healthcare-associated infections in the medical ICU.
- Co-led a waste-reduction project that matched dexamethasone purchase sizes to the most common doses.

Renal, Cardiac Cath Lab and Recovery Nurse | Manchester Royal Infirmary (NHS) | Manchester, United Kingdom

Aug 2012 – Jul 2015

- Took part in a CLABSI-reduction project in the renal unit (2014–2015).
- Prepared patients in the cardiac cath lab and triaged emergencies in coordination with the CCU; nursed endoscopy recovery.

Intensive Care Nurse | Complexo Hospitalario Universitario de Ourense (SERGAS) | Ourense, Spain

Jul 2009 – Jul 2012

- Gave critical care for septic shock, ARDS and neurosurgical emergencies, and covered the neurosurgery, vascular surgery and primary-care ER units.

Skills

- Analytics tools: Power BI (DAX), Python, SQL, SharePoint, Power Automate
- Methods: incident and harm-trend analysis, stochastic simulation, statistical process control (control limits), ANOVA, multi-objective optimisation (NSGA-II), mixed-integer linear programming, process mining, natural language processing
- Quality and safety: Root Cause Analysis, clinical risk management, RPN risk matrices, accreditation standards (Joint Commission International (JCI), Magnet, CARF), antimicrobial stewardship, infection prevention (CLABSI), critical care nursing

Education

- PG Cert Business Management (Business Analytics), University of Essex, UK, 2023
- Master of Public Health, University of Essex, UK, 2022
- BSc Nursing, Universidade de Vigo, Spain, 2009
- Social Anthropology (BSc studies, part time, about half completed, not finished), UNED, Spain (distance learning), 2012–2015

Certifications

- Certified Professional in Healthcare Quality (CPHQ), National Association for Healthcare Quality, US, 2020

Projects

Personal, open source (AGPL-3.0), built on synthetic data in my own time. Not affiliated with any employer. Public code: github.com/mmonfar.

- **Risk score by harm level** (GitHub: mmonfar/hospital-risk-velocity). Turns incident reports into one number by harm level and shows its trend. An alarm only means go and look. Prototype. A preprint testing the method on synthetic data is in preparation.
- **Cardiac capacity planner** (GitHub: mmonfar/cardiac_model). A weekly stochastic simulation of a cardiac waiting list, repeated over 60 simulated years, with an optional Markov-type deterioration step (a weekly chance that a waiting child gets worse, per diagnosis). It tests extra theatre sessions and CICU beds, and shows a typical year and a range. Prototype, not a medical device, not clinically checked.
- **Process explorer** (GitHub: mmonfar/proxy-process-explorer). Maps each case's path from a spreadsheet of step timestamps and shows the slow step. It runs offline in the browser.
- **M&M round simulator** (GitHub: mmonfar/clinical-node). In development. Several AI agents read one fictional case against tiered medical evidence and produce structured minutes. Not a substitute for clinical judgement.
- **Staff planner** (GitHub: mmonfar/staff_planner_app). Tests whether a fixed staffing ratio covers the worst days, using Safer Nursing Care Tool levels, stochastic demand and a mixed-integer linear programme.
- **Bed assignment optimiser** (GitHub: mmonfar/bed-admissions-management-optimization). An NSGA-II optimiser for hospital bed assignment that returns a set of trade-off options across three objectives.

- **Medication forecast** (GitHub: mmonfar/Medication_Consumption_App). Forecasts each medicine's use, with a range.
- **Ward round explorer** (GitHub: mmonfar/hospital-ward-process-mining). Uses process mining to find wasted walking on ward rounds.
- **M&M themes map** (GitHub: mmonfar/mm-k-means-bert). Embeds free-text M&M summaries, clusters them with K-Means and shows them as an interactive 3D map.

Publications

- Muhana A, Assadi RA, Mahdi A, Fathy A, Farina M, Diab MJ (2026). Deprescribing proton pump inhibitors in long-term care: Outcomes of a pharmacist-led initiative. Exploratory Research in Clinical and Social Pharmacy, 23, 100820. https://doi.org/10.1016/j.rcsop.2026.100820
- Gamal M, Elsahy R, Farina M, Almaazmi M, Abdulla H, Hamad Y, Osman S (2026). From Paper to Proactive Safety: Digitalising Shift Checklists in a Paediatric Cardiac ICU. Nursing in Critical Care, 31(5), e70622. https://doi.org/10.1111/nicc.70622

Awards

- Diamond Certificate, AHF 2024: innovation in antimicrobial stewardship
- Gold Certificate, AHF 2023: environmental sustainability in healthcare

Languages

English (fluent), Spanish (native), Galician (native)

Links

- LinkedIn: https://www.linkedin.com/in/martin-monteagudo-farina
- GitHub: https://github.com/mmonfar