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Proactive demonstrative project for care management

Submission date 04/08/2025	**Recruitment status** Recruiting	[_] Prospectively registered [_] Protocol [_] Statistical analysis plan [_] Results [_] Individual participant data [X] Record updated in last year
Registration date 26/08/2025	**Overall study status** Ongoing	
Last Edited 26/08/2025	**Condition category** Other	

Plain English summary of protocol

Background and study aims

There's a global shortage of nurses, and by 2030, the World Health Organization expects a shortfall of 4.5 million nurses. This could affect the quality of healthcare. To help address this, researchers in Catalonia, Spain are testing a new digital tool that helps hospitals better match nursing care to each patient's needs. The goal is to improve patient outcomes, reduce stress for nurses, and make hospital care more efficient.

Who can participate?

The study involves healthcare professionals and patients in selected hospital units. Participation is limited to those working or receiving care in the pilot hospitals involved in the study.

What does the study involve?

For patients, the study involves having their care needs assessed using a new digital tool when they are admitted to hospital. For nurses and other professionals, it means adjusting staffing levels based on these assessments and providing feedback through surveys. The study also includes tracking health outcomes and staff satisfaction.

What are the possible benefits and risks of participating?

Benefits may include better care for patients and improved working conditions for nurses. Risks are minimal, as the study mainly involves data collection and adjustments to staffing based on patient needs. No treatments are being tested, and patient safety remains a priority.

Where is the study run from?

The study is run by the Corporació de Salut del Maresme i la Selva, in collaboration with six hospitals in Girona and Barcelona (Spain)

When is the study starting and how long is it expected to run for?

May 2023 to May 2026.

Who is funding the study?

The study is funded by the Catalan Health Service (CatSalut) and is part of a wider initiative to improve healthcare in Catalonia (Spain)

Who is the main contact?
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Contact information

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Public, Scientific, Principal investigator

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Additional identifiers

Clinical Trials Information System (CTIS)
Nil known

ClinicalTrials.gov (NCT)
Nil known

Protocol serial number
PT-182023-UCH

Study information

Scientific Title
Proactive demonstrative project for care management: adaptation and new roles for the needs of hospitalized patients

Acronym
PT-CURAS

Study objectives
Evaluate whether the implementation of the digital tool or platform that calculates the patient's Care Intensity Index (CII) upon admission is effective in adjusting the use of nursing resources in the hospital care process, contributes to improving patient quality and safety, and enhances professional satisfaction.

Ethics approval required
Ethics approval required

Ethics approval(s)
approved 26/02/2025, Maresme Healthcare Consortium (Research Unit (basement 2, door 5) Mataró Hospital, Carretera de Cirera, s/n 08304 Mataró – Barcelona, Barcelona, 08304, Spain; +34 937417730; assajosclinics@csdm.cat), ref: 87/24

Study design
Multicentric observational phase I retrospective cohort

Primary study design
Observational

Study type(s)
Safety, Efficacy

Health condition(s) or problem(s) studied
Improve perception of professional satisfaction

Interventions
Phase I: Register the variables agreed upon to establish a Care Intensity Index (CII) and apply it to a sample of 10 patients per entity (in collaboration with six hospitals in Girona and Barcelona). Data extraction will be done through conventional statistical analysis to perform a pre-implementation study of the digital tool using an Excel document, where time and procedures will be manually recorded. Health indicators will be collected before the tool's implementation, and surveys will be conducted using the OMICE and NSS stress scales via URL.

Phase II and III:
1. Create and implement the tool in a sample of patients, adjusting nursing staff by patient profiles and care load in a pilot unit at each center.
2. Evaluate the tool’s functionality using the SUS scale for usability.
3. Measure effectiveness during a two-month period using a manual checklist. The same Excel document from Phase I will be used to track the CII and verify its established variables

Propose stress and neglect scales for healthcare professionals prior to the implementation phase of the digital application and subsequently in phase 3.

Provide a Likert satisfaction scale for the management population.
Pilot test in phase 3 of an internal medicine unit in the participating hospitals.

Intervention Type
Other

Primary outcome(s)
1. Stress factors of healthcare professionals in hospitalization measured by the validated Spanish version of the NSS (Nursing Stress Scale) in phase I and phase III
2. Omission of nursing care measured by he Survey on OMISION OF NURSING CARE (OMICE) Spanish version (Spain) of the MISSCARE
instrument in healthcare professionals in hospitalization during phase I and phase III
3. Management satisfaction measured with the satisfaction survey of management professionals who will use the digital tool in phase I prior to implementation and in phase III
4. Manual cures intensity index measured using the Barthel scale, medical order sheet, monitoring of vital signs and frequency according to medical indication and record of cures and PRN (project research nursing) in Phase II or validation
5. Cure intensity Index IIC measured using the digital tool or APP in phase III
6. The usability of the application or digital tool was measured using the Computer System Usability Questionnaire (CSUQ) for management professionals in Phase III

Key secondary outcome(s))
There are no secondary outcome measures

Completion date
31/05/2026

Eligibility

Key inclusion criteria
1. Care professional in the MI unit and patients over the age of 18 years admitted to that unit
2. Professional manager who uses the digital application

Participant type(s)
Patient, Health professional

Healthy volunteers allowed
No

Age group
Adult

Lower age limit
18 years

Sex
All

Key exclusion criteria

1. Patients not used Internal Medicine Unit
2. Under 18 years of age

Date of first enrolment
01/07/2025

Date of final enrolment
28/02/2026

Locations

Countries of recruitment
Spain

Study participating centre
Corporacion salud del Maresme y la Selva
Sant Jaume 209-217
Calella
Spain
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Sponsor information

Organisation
Corporacio de Salut del Maresme i la Selva

Funder(s)

Funder type
Government

Funder Name
CatSalut

Results and Publications

Individual participant data (IPD) sharing plan
All data generated or analysed during this study will be included in the subsequent results publication

IPD sharing plan summary

Published as a supplement to the results publication