

IBDCARE

IBD-CARE: Integrated Digital Solutions for Transforming Primary and Community Care in Inflammatory Bowel Disease

ABSTRACT

IBDCARE aims to revolutionize the management of Inflammatory Bowel Disease (IBD) by transitioning care from hospital-centered models to home-based, digitally supported systems. The project will develop and validate a comprehensive digital ecosystem that includes an AI-powered decision support system, home biomarker monitoring devices, and user-friendly tools for patients and healthcare professionals. Key components include a mobile application with a natural language processing (NLP) symptom tracker, integration with home-based monitoring for inflammatory and companion biomarkers, and a clinician dashboard interoperable with hospital EHRs using HL7/FHIR standards.

The model supports proactive disease management, early flare detection, and personalized interventions, improving outcomes and reducing healthcare burden. Capacity-building programs will train general practitioners and primary care providers, enabling decentralization and task-shifting. A randomized controlled trial in Italy, Portugal, and Spain will evaluate the model's clinical, economic, and social impacts. A robust Health Technology Assessment will assess cost-effectiveness, scalability, and equity.

Co-designed with patients and healthcare providers, IBDCARE addresses digital literacy, clinical workflow integration, and long-term sustainability. The project aims to deliver a replicable, patient-centered care model for chronic disease management, aligned with European health policy priorities for digital transformation, primary care strengthening, and equitable access.

KEYWORDS

- Inflammatory Bowel Disease
- Digital Health
- Remote Monitoring
- Artificial Intelligence
- Personalized Care
- Patient-Centered Solutions
- Chronic Disease Management

DURATION

36 months

PARTNERS

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