



PROJECT TITLE	OSYRISH: Organizational and Informational System to Improve the Communication Management of Healthcare Associated Infections in Hospitals – Refª. PTDC/IVC-COM/5016/2012
BRIEF DESCRIPTION	<p>Research in organizational Intervention Methods: Combining LEAN, Design Science Research Methodology (participative research) to promote the Translation of organizational and clinical evidence to improve the adoption of best practices in Hospital infection control. Phases: Problem definition: Monitoring the hand hygiene adherence and surveys Solution objectives: Combining the use of Lean tools (Gemba Walk/observações/Spagetti Diagram; Value Stream Map) with hand hygiene requirements. Intervention Design & Implementation: LEAN systems implementation in the wards, to enable the combination of “indoor location” with “gamification” to improve hand hygiene, and the implementation of antibiotic stewardship. Demonstration Evaluation Communication: -Marques, R... Lapão LV (2017) How Can Information Systems Provide Support to Nurses' Hand Hygiene Performance? Using Gamification and Indoor Location to Improve Hand Hygiene Awareness and Reduce Hospital Infections. BMC Medical Informatics and Decision-Making, 17 (1), 15 -Lapão, L. V. (2016). Lean in the Health Management: An opportunity to improve focus on the patient, respect for professionals and quality in the health services. Acta Médica Portuguesa, 29(4), 237-239. -Simões, A. S., Couto, I., Toscano, C., Gonçalves, E., Póvoa, P., Viveiros, M., & Lapão, L. V. (2016). Prevention and control of antimicrobial resistant healthcare associated infections: the Microbiology Laboratory rocks!. Frontiers in Microbiology, 7, 855.</p>
OBJECTIVES	To optimize the working processes organization to improve the best adherence to hand hygiene, making use of scientific evidence to combine information systems and gamificação (nudging).
IMPLEMENTATION	The system was implemented in the following hospital wards: UCIP/HSFX/CHLO and Évora to improve the organization of nurses working processes. Since 2013.
FUNDING AGENCY	Fundação para a Ciência e a Tecnologia (FCT)
DURATION	2013-2015
PRINCIPAL INVESTIGATOR	Luís Lapão (GHTM/IHMT)



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