

Creation of Software dedicated to the reality of an Orthopedic Hospital

Hospital
Ortopédico



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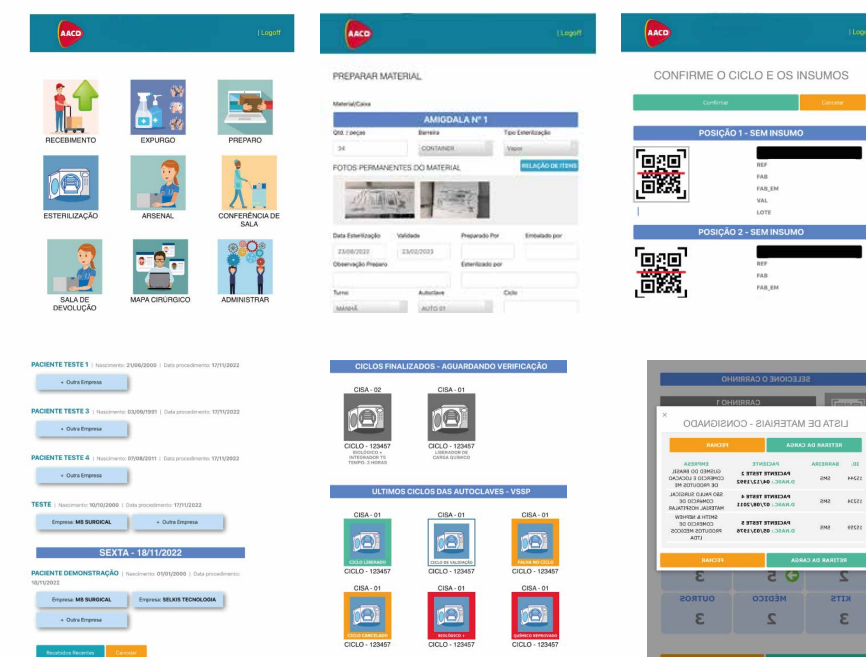
Materials and Sterilization Centers had not yet been modernized taking the risk of becoming obsolete which would compromise finances and the quality of services offered by the hospital. Given the fact that the modernization at AACD Hospital is a complex process due to 95% of the volume of the material processed is external, meant by the use of high-cost Orthoses, Prostheses and Special Materials (OPMEs), two aspects of the process should be taken into consideration: the volume of the material and the financial value involved. Due to this scenario, we highlight the need to build a specific traceability system for OPME materials, meeting the needs of many material and sterilization centers, where it will support the assistance team involved in the surgical process.

The main objective is to guarantee and eliminate financial losses, optimization of work, ensuring traceability and efficient management of all CME processes, such as, receiving materials, cleaning, inspection, preparation, sterilization, and distribution, thus bringing operational gains, ensuring process safety and the institution's financial health.

The project started in January 2021 and even though it had been delayed due some problems faced in its implementation, the conclusion forecast remained until April 2023. As a result we could accomplish the following outcomes: a reduction in time to receive instruments

and disposables, labels for identifying materials not anymore had to be manually typed but could be printed directly from the system already integrated with patient data and QR CODE as an automated process, each employee login allowed the individual time to get the instruments and returning them to be measured, generating individual productivity metrics, monthly reports with easy access to all the data of the material entry and return, freedom of movement in all sectors, as we use state-of-the-art tablets, batch control of inputs/equipment for each thermo disinfected material using photography and QR CODE, reduction of time and guarantee of safety and traceability of the material/patient/process.

We concluded that the tool brought safety to the process. It allowed us to map the phases of our demand in our environment objectively and safely. On the top of it, the process proved to be a reliable and effective working tool and became a reference to all the hospital field. Furthermore, the tool is also recognized because of the implementation of the management tool with excellent outcomes to the sector's production since the moment the OPME was received to its return. All this was made possible due to the innovative register integrated into the patient's medical record, which currently is unique in the national and international hospital market.



Bibliography:

BRASIL, ANVISA - Agência Nacional de Vigilância Sanitária. Segurança do paciente em serviços de saúde: limpeza e desinfecção de superfícies. Agência Nacional de Vigilância Sanitária. Brasília: Anvisa, 2010.

BRASIL. RDC nº 15, Resolução da Diretoria Colegiada - Dispõe sobre requisitos de boas práticas para o processamento de produtos para saúde e dá outras providências. ANVISA, 15/03/12.

Brasil. Ministério da Saúde. Coordenação de Controle de Infecção Hospitalar. Processamento de artigos e superfícies em estabelecimentos de saúde. Brasília: Ministério da Saúde; 2003