

## Hospital information system and big data: Feedback from the central laboratory of the CHU Mohammed VI in Oujda

**Mohammed Choukri**

*Central Laboratory Department of the CHU Mohammed VI of Oujda, Faculty of Medicine and Pharmacy of Oujda, Morocco*

### **Abstract**

The hospital information system (HIS) which is in perpetual evolution, is able to acquire data, to evaluate them, to treat them by computer or organizational tools, to distribute information containing a strong added value to all the internal or external partners of the establishment, collaborating in a common work oriented towards a specific goal, namely the care of a patient and his recovery. The HIS can combine several functions and modules necessary for the management of laboratory, radiology services, pharmacy, operating room, payroll, invoicing, budget monitoring, medical activity statement, communication (internet, intranet, protocols, messaging, forum, order form, etc.). The current trend is moving outside the hospital: the development of health networks, the Personal Medical Record, telemedicine and why not the surgical piloting of a remote robot.

The big data generated by the HIS constitutes a real big data of information whose characteristics in terms of volume, velocity and variety require the use of specific technologies and analytical methods to create value and allow predictive, trend analyzes and forecasting as well as risk management and decision making. In this work, we will present our feedback on the use of the HIS in the central laboratory service of the CHU Mohammed VI of Oujda, the strengths, the constraints, the challenges and the opportunities for improvement.

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### **Biography**



**Mohammed Choukri** is Professor of Higher Education in Chemistry-Biochemistry at the Faculty of Medicine and Pharmacy of Oujda and Head of the Central Laboratory Department of the CHU Mohammed VI of Oujda. He is also responsible for the IVF laboratory of the medically assisted procreation unit. In addition to the doctorate degree in pharmacy and the specialty degree in medical biological analyses, he holds several university degrees: in Medical Assistance of Procreation, in Audit of Medical Biology laboratories, in Quality Assurance in Clinical Biology, Medical Pedagogy. He is a member of several national commissions at the Ministry of Health and the Ministry of Higher Education. Pr Mohammed Choukri is an active member in several learned societies and holder of more than 40 international publications.

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