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# 3D PRINTING & ADDITIVE MANUFACTURING

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## **Development of management information system for process-based activity based costing system by improving lean management techniques and processes in newborn unit of hospitals and application in Kahramanmaras health application and research hospital**

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The present study Lean hospital, patient and employee safety is not neglected, facility security is on the front panel, preventing waste it is a philosophy aiming at continuous improvement and development, not leaving in scientific lines, using time well, producing quality work. Lean manufacturing began to be implemented at the Toyota Motor Factory in the early 1950s, first under the leadership of Taiichi Ohno after world war II. In 1989, lean manufacturing techniques were implemented at the Virginia Mason Medical Center in the United States. Cost accounting systems are the central pillar of the operator as a source of information. The traditional cost system in hospital enterprises has been insufficient in the right distribution of increased indirect costs, in the evaluation of opportunities and in the provision of

innovations. An activity-based costing system based on the application of lean techniques provides a more reliable and accurate cost management. The main purpose of this project is develop management information system and decision support information system by using information technologies, lean management techniques, lean accounting, process based activity costing, web based, and mobile based programming tools and methods. In addition, to reduce waste in stock, development of 3D Printer Kanban stock tracking system for drug. Applied in newborn unit of hospital. Providing managers with quick and accurate information will ensure better management of the institution.

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