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**Abstract.** This paper is an architectural study of modern hospital design. This study aims to apply lean thinking in modern hospital design planning where the patient is the center. The methodology conducted the research with a qualitative approach through observation and case studies from Dharmais Cancer Hospital Jakarta. Lean thinking approach in the design process, making improvements mainly related to elements and space utilization in the hospital, including integration with information systems and medical technology. Hospital design is carried out by identifying and eliminating waste or activities that are not added value through radical continuous improvement by flowing products (materials, work-in-process, output) and information, using a pull system from stakeholders to pursue excellence and perfection. Thus, it is hoped that the design of the hospital building can be effective in its space program. An architectural design change based on lean thinking is expected to add value to patients and better management of key resources in terms of services, both in the form of access and better room layout.

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Services at the Jakarta Dharmais Cancer Hospital are very important to be improved. The obstacles faced by the hospital are the limited facilities to help people living with cancer, temporary shelters, and the hospital environment in curing cancer. For efficient hospital development, integration between service units is needed. For example, an outpatient unit is a service unit highly integrated with other installations in the hospital in its operations. Other closely related installations include functional medical staff room units, hospital administration, radiology, laboratories, medical records, maintenance, logistics, pharmacy, and others. The form of direct observation of the integration system can be the basis for optimizing the room. The high demand resulted in many prospective patients queuing and waiting in the lobby. The linkage between units in the hospital shows a gap that can improve.

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## ACKNOWLEDGMENTS

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Aswin Griksa Fitran<sup>1a)</sup>, Posma Sariguna Johnson Kennedy<sup>2,b)</sup>, Sri Pare Eni<sup>3,c)</sup>

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