

## The Multifunctional Medical Centers' Architectural Shaping

**Authors :** Griaznova Svetlana, Umedov Mekhroz

**Abstract :** The current healthcare facilities trend is the creation of multidisciplinary large-scale centers to provide the maximum possible services in one place, minimizing the number of possible instances in the path of patient treatment. The multifunctional medical centers are mainly designed in urban infrastructure for good accessibility. However, many functions and connections define the building shape, often make it inharmonious, that greatly destroys the city's appearance. The purpose of the research is to scientifically substantiate the factors influencing the shaping, the formation of architectural solutions principles, the formation of recommendations and principles for the multifunctional medical centers' design. The result of the research is the elaboration of architectural and planning solutions principles and the determination of factors affecting the multifunctional healthcare facilities shaping. Research method: Study and generalization of international experience in scientific research, literature, standards, teaching aids, and design materials on the topic of research. An integrated approach to the study of existing international experience of multidisciplinary medical centers. Elaboration of graphical analysis and diagrams based on the system analysis of the processed information. Identification of methods and principles of functional zoning of nuclear medicine centers.

**Keywords :** health care, multifunctionality, form, medical center, hospital, PET, CT scan

**Conference Title :** ICHALD 2022 : International Conference on Hospital Architecture and Landscape Design

**Conference Location :** New York, United States

**Conference Dates :** August 08-09, 2022