

Medical service robot

There have been various developments in medical service robots (MSRs). However, few studies have examined the perceptions of those who use it.

Lee et al. conducted a survey of 320 patients, doctors, and nurses. The contents of the survey were organized as follows: external appearances, perceptions, expected utilization, possible safety accidents, and awareness of their responsibilities. Statistical analyses were performed using t-test, chi-square test, and analysis of variance.

The most preferred appearance was the animal type, with a screen. The overall average score of positive questions was 3.64 ± 0.98 of 5 points and that of negative questions was 3.24 ± 0.99 . Thus, the results revealed that the participants had positive perceptions of MSR. The overall average of all expected utilization was 4.05 ± 0.84 . The most expected utilization was to guide hospital facilities. The most worrisome accident was exposure to personal information. Moreover, participants thought that the overall responsibility of the robot user (hospital) was greater than that of the robot manufacturer in the case of safety accidents.

The perceptions of MSRs used in hospital wards were positive, and the overall expected utilization was high. It is necessary to recognize safety accidents for such robots, and sufficient attention is required when developing and manufacturing robots ¹⁾.

¹⁾

Lee JH, Lee JM, Hwang J, Park JY, Kim M, Kim DH, Lee JI, Nam KH, Han IH. User perception of medical service robots in hospital wards: a cross-sectional survey. Yeungnam Univ J Med. 2021 Oct 5. doi: 10.12701/yujm.2021.01319. Epub ahead of print. PMID: 34607408.

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