

Robots and human nursery, a big step to grow

Abstract

Large quantity of healthcare and medical services should be supported with good-quality of nursery and caregivers. To implement with good-quality nursery and caregivers in healthcare services, innovation in thoughts, knowledge, experience, and techniques is paramount. Currently, specific technique progresses and knowledge accumulation play growing share in clinical trials and hospital routines. Different patterns of educational and clinical systems should be implemented and fund-supports. Medical challenges and new technology between robots and nurses, and their future trends are discussed in details as emerging knowledge and technical advancing arguments.

Keywords: healthcare, nursing, medical service, modern technology, robots

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Introduction

Backgrounds

Large quantity of healthcare and medical services should be supported with good-quality of nursery and caregivers. To implement with good-quality nursery and caregivers in healthcare services, innovation in thoughts, knowledge, experience, and techniques is paramount. Currently, specific technique progresses and knowledge accumulation play growing share in clinical trials and hospital routines. Different patterns of educational and clinical systems should be implemented and fund-dependent. Medical challenges and new technology between robots and nurses, and their future trends are discussed in details as emerging knowledge and technical advancing arguments.

Clinical situation

Today, a lot of major diseases (approximately half categories) are chronic diseases. Treatments and recovery of chronic diseases are not defined as doctor or clinician attentions (surgery or modern equipment requirement). Many healthcare efforts are based on the bedside—medication (drugs, nutrition and affordable instruments) unite with nursery service (carrying every details and process of medical providers).¹⁻⁴

Problem orientation

Clinical dilemma

Healthcare services, especially nursery healthcare needs great physical strength or spiritual capability—encompassing details and unity of each medical treatment.⁵⁻¹⁰ A great deal of chronic or dying patient in general hospitals or healthcare centers needs prolonged and inexhaustic nursing service. Some ways of different approaches for nursery capability, sustainability and innovations can reduce therapeutic costs or cost-effective pursue for overcoming clinical obstacle and outcomes.¹¹⁻¹⁷

Considering the low feedbacks of nursery services in costs and mentally supporting, it is a dilemma and challenge for gradually widening of nursery service now. Nursery robots is the important advance in nursery services and applications in this areas.

New systems

To widen the scopes of nursing activity and efficacy has different approaches. Some chances and opportunity and new option for

nursery advances emerged, like growing numbers of different robots, or automatic systems. There alternative solutions can liberate the strengths and spirituality of frontline of general nurses.

Methods

Different applications

The application of nursery robots is categorizing. Table 1 shows the outlook of major innovations for nursery robots (Table 1).

Table 1 Nursery robots for major applications

Technical types	Major applications
Diagnosis	Repeated testing and real-time monitor
Information providers	Remind of pill intake or life routines
24-hour service	Enduring physical or spiritual demanding properly
Reduction of costs of medication	Save the costs of service bills (human service cuts)
Working areas	Well applications for all disease treatments
Availability	More energy and capability for patients
Pediatric	Helping-hands for the children

Mutual benefiting

Nursery service and caregiver are important for patient's healthcare and therapeutic quality promotions. Gradually implementing nursery education study and applications are paramount.¹⁴⁻¹⁵ If a hospital or healthcare centers can provide nursery robots or other techniques can reduce the costs of education and working experience. Improved health care services, and nursery robots could benefit more patients with high-quality and great patience (Table 2).

Table 2 Different categories of nursery robots

Category	Specificity	Sources
Medical	General medical knowledge and diagnosis	Schools & hospitals
Technical	Skills and routine	Hospital services
Quality	Writing, patience, Communication	Schools
Psychology	Psychological condition health	Working-place

Discussion

Personal favorability

Nursery service is relatively hardworking, laborious and repetition. Few nurses are like these experiences and working routine worldwide. It needs precise and endurable services in every minute of a day. Robot nurses is one of the best ways to tackle with previous human service of long-lasting and energy demanding.

Cost-cut

Cost-reduction is also one factor to consider. Since global nurses now is rather under-paid comparing with other professions. Utility of robots can be helpful for the service in relative low costs (electric bill and robot costs). We believe this discipline of nurses will thrive in near future.

Future trends

The service and quality of nursery robots will be gradually improving in many areas. It contains areas as

Large-scale production and applications of nursery robots. That makes cost reduction of individual robots and running costs.

Integration knowledge and personalized medicine to routine of nursery that can promote clinical trials.^{18–22}

Availability and popularity of this service in more areas or disciplines with artificial intelligence or others.^{23–26}

Interaction between patients, doctors and nurses by facilitated systems.^{27–28}

Conclusion

Nursery robots may benefit patient therapies and recovery in key areas. In addition, nursery robots can be cheaper lately. To fuel future robotic study, high-quality and cost-effective robots should be developed.

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Conflict of interest

The author declares that there is no conflicts of interest.

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