



Merging and boosting technology in nursing practice: Understanding through nursing model

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Abstract

Rogers's system model is known as Science of Unitary Human Beings, wherein, human beings and environment are integrated to provide a pan dimensional view of people and the world. The concept focuses on the interaction between the human and environment field such that it provides a vision to look forward that allows the energy to be transmitted by waves. The author describes the use of technology in nursing practice, and simultaneously with the view of directing to strive a unidirectional flow to achieve the maximum health.

Keywords: rogers system model, hemodynamic, helicy, resonancy, integrality, unidirectional

Introduction

With the advent of technology and increased pace of life the health need of the people has considerably reached its pinnacle to attain the best quality of health care support, to the society. Use of technology in health sector has been a boon for the health team members and the health system universally. This has overcome and eliminated the barrier services mainly at the rural and grass root level. It has also enhanced the self-monitoring aspects among supportive family members and patients who can follow

instructions. Thus, it has acted as a lever to upgrade the health facility in most of the primary health care centers. For instance-exchange of patient data, medical images, video conferences, home care has been initiated. Although; technology has stepped in health sector the cost effectiveness scale continues to be questioned as every individual experiencing it has their own perception and feedback, as everyone in the community to be benefited.

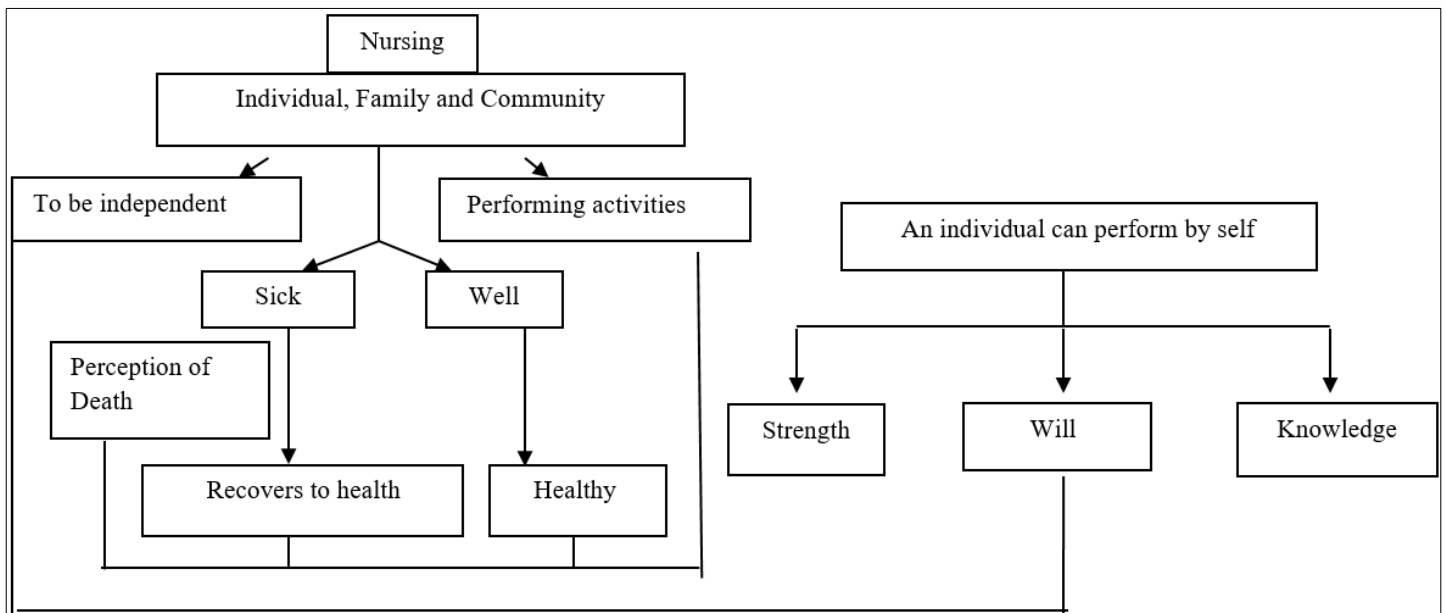


Fig 1: Nursing concept

Content

Application of Rogers's system model explaining the relationship between man and environment a brief explanation

The process of nursing concept merged with the model expands the scientific application and merging of health care and technology for making health accessible to all.

a. Scientific unitarian human being

Energy field

The inevitable part between human and environment

- Sources indicative for functioning of technology are man, money and material for effective telecommunication
- Materials and the networking system used for transmission

eg- Satellite, cables, fibre optic etc.

Openess

No barriers to flow of energy

- Quality of transmission depends on the available hardware and software available
- System Management enhancement and expertise such that the process of technology during patient need is not hampered.

Pattern

Perceived as single wave unidirectional

- Suggests focus on improving the health aspects of individuals. For Instance giving health education to supporting family and health education

Pan dimensionality

Refers to the type of patient receiving the treatment

- Example-Patient on insulin therapy, peritoneal dialysis, hypertensive patient monitoring to prevent Cerebrovascular accident and Cardiovascular diseases, psychological counseling etc.

Hemodynamics

Balance between the life process and environment that encompass of

Resonancy

Shows the nature of change taking place between human and environment. As fig.1 indicates the nature of health, its obvious that lifestyle changes plays a significant role in pan dimensionality. Can be executed by the increasing number of non-communicable diseases.

Helicy

System that is dynamic and open.

Indeed, the health aspects are dynamic since primitive to present age- eg- functionality of robotic surgery from another corner of the world. Video conferences in group from their respective sites.

Integrity

Continuous revision of concepts This is possible only after feedback from treated patients

b. Assumptions

wholeness, openness, unidirectionality remains same, pattern and organization-refers to innovation in terms of health care and technology used.

Eg-Telenursing- For intake of medications, reporting, health advice, for promoting health and prevention of diseases.

c. Metaparadigm

- Human-Synchronized rhythm between Human beings and the environment
- Health- Health maintained at its greatest is the ultimate goal
- Nursing-Provision of safe practice through appropriate use of technology in the form of telenursing, telepathy, telemedicine, teleconsultation, telesurgery etc. and has scientific knowledge regarding the working process. Whereas, the patient and the supporting family also should know the technical use of system and assure that quality is assured in terms of treatment.
- Environmental field- It refers to integral part that reaches to every patient and health team member associated with it.

Application of rogers’s system model to mr.x

Mr. “X” a 70 years old man known case of HTN and DM since 12years. Has complaint of cough, night sweat, weight loss and loss of appetite, residing with his family in the outskirts of the city. Due to his fatigue and weakness decided to consult the OPD nurse. On the basis of COVID-19 grounds he was advised for a telenursing consultation.

One month prior he was discharged from MMW diagnosed with diabetic foot of left leg.

The foot skin had lacerations with oozing and purulent discharge. His family member stated that he does not have control on his diet and often forgets to take his medicines and Mr. X stated that his family members are supportive. On discharge, diabetic diet plan along with continuity of insulin therapy was advised

Table 1

Nursing diagnosis	Goals / objectives	Planning	Implementation	Evaluation
Ineffective health maintenance	To improve/restore health	Assess the health status Educate the patient and the family members Diversion Therapy Listen to clients problems or complaints	-Health history -Respiratory assessment -Deep breathing exercises -First line antibiotics - PFT -Educating family member about patient care needed at home -Emphasize on psychological support -Meet the nutritional aspect Food rich in protein -Diversion therapy in the form of indoor games, newspaper reading, solving puzzles, gardening.	Improved health as evidenced by -No fatigue -Malaise -Better Respiratory status -Increased weight -Skin turgor improved
Nursing diagnosis	Goals / objectives	Planning	Implementation	Evaluation
Nutritional imbalance related to loss of appetite	To meet the nutritional need	To plan nutritional requirement	-Check for body weight -Assess the weight loss taken. -Weight check to be on same time as far as possible. -DASH diet recommended and Carbohydrate diet to be balanced. -Understand the cultural aspects involved for diet plan -TPN (Total Parental Nutrition)if needed	Weight has improved and no fatigue or malaise.

Conclusion

Shaping the application of Health care and technology is tedious as assuring the saving, retrieving of patient's information, maintaining its confidentiality plays a vital role. Hence, early planning with clear understanding and availability of resources will suffice the implementation in a better way for better tomorrow.

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