

Overview On Implications Of Sustainable Development In Nursing Field: Brief Review

Shereen A . Qalawa ^{1,2*} , Samah El Awady Bassam ³

¹ Department of Medical Surgical Nursing, College of Nursing, Qassim University, KSA

² Department of Medical Surgical Nursing, Faculty of Nursing, Port- Said University, Egypt

³ Department of Maternal and Child Health Nursing, College of Nursing, Qassim University, KSA

s.basam@qu.edu.sa, [Orcid:https://orcid.org/0000-0001-6284-6202](https://orcid.org/0000-0001-6284-6202)

***Corresponding author:**

Shereen A . Qalawa^{1*}

Department of Medical Surgical Nursing, College of Nursing , Qassim University , KSA , S.Qalawa@qu.edu.sa

<https://orcid.org/0000-0002-1140-4786>

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Abstract

Background: Sustainable development is a compound concept that has appeared because of the apprehension for the environment and increased a sustainable pathway of development in the 21st century. Even though health consequences have better in low-income and middle-income countries (LMICs) in the past few decades. Fluctuating health needs, increasing public hopes, and determined new health goals are floating the bar for health systems to create better health consequences and better social significance . So, the nurse should be practice like chances as treating all patient similarly and pro-vided wholly patients with the available technologies that can donate to their recovering or health promotion with the intention of confirm patients security, safety, social and health through technologies such as good lighting, quality furniture and comfort areas. **Aim :** this a systemic brief review aims to highlight on the implications of Sustainable Development in Nursing field . **Data search, review and collection:** Done in relative to our paper topic from the year 2015- 2022 as Sustainable development, , Nursing Practice , Nursing Care , Health Care , Sustainable nursing strategies , Implications of sustainable development in nursing care Data is collected from reliable database searches from Qassim university digital library Saudi Digital Library (SDL) search as Directory of open access journal , PubMed , and E-article **Implications for clinical practice:** There are an obvious needs for educate the nurse regarding strategies for sustainable development in nursing practice as usage of sterilized disposable items, waste management techniques and facilities. Additionally, there are obvious needs for instructional guidelines / information on sustainable development attitude in using all devices / machines and turn off if not needed as suction machine, monitor / computer / light and television.

Keywords: Overview , ÷mplications , Sustainable Development , Nursing Field, Brief review

Systemic review:

Sustainability is the key problem of organizations. Because of environmental ambiguity and human disregard lot of subjects related with environment are increasing day by day. That is why implementing green policies and originating green activities are critical for organizations to achieve viable advantage and sustainability. (Albejaidi.,2021)

The World Health Organization formally professed the epidemic of the coronavirus disease 2019 (COVID-19) a public health crisis of international alarm on 30 January 2020. The world is allocating

with an emergency of enormous proportions. The pandemic has shown that this crisis is powered by poverty, hunger, weak health systems and lack of clean water and sanitation, education and global cooperation (**Heggen et al.,2020**).

Sustainable development is a compound concept that has appeared because of the apprehension for the environment and increased a sustainable pathway of development in the 21st century (**Zamfir et al., 2015**).

During COVID-19 pandemic, there is a negative effects in Africa via hunger, poor health care, poor educational systems, poverty, and lack of potable water and sanitation. There is alarm that the economic unproductivity resulting from COVID-19 will not only push more populations below the poverty line but also limit international maintenance to ensure development on the road to succeeding the sustainable development (SDGs) in Africa (**Ekwebelem et al.,2021**).

As we passage toward hurrying action for accomplishing the SDGs, the role of community based stages will become more significant. These approaches are needed to confirm that numerous of the key subjects of the SDGs such as reducing inequalities and reaching disregarded populations, are attained within the next 15 years. Some 40 years following the Alma Ata announcement of “health for all”, this might yet come to be a actuality.(**Bhutta .,2017**)

Even though health consequences have better in low-income and middle-income countries (LMICs) in the past few decades. Fluctuating health needs, increasing public hopes, and determined new health goals are floating the bar for health systems to create better health consequences and better social significance. Moreover, the human rights to health are worthless without good quality care because health systems cannot advance health without it. (**Kruk et al .,2018**) . Likewise, the growing development and accessibility of new technologies in all fields have directed to the construction of new approaches and business models, meaning the way an organization generates, captures, and distributes value (**Presch et al. , 2020**).

Concerning hospitals should be considering the influences of the healthcare setting on hospital populations, act as adjustment agents to impose healthy behaviors and researches on health promotion (**Pelikan et al., 2001**) . Thus, Novelty technology in health care is a major encounter to the health and life. Affordability to healthcare has been a discouraging task because of increasing costs, case management, and deciding medical dues (**Nomani, M. Z. M., & Hussain, 2020**).

In Saudi Arabia, cultural and language differences between emigrant nurses and patients affect the value of nursing care. Hereafter, the Kingdom is eying Saudization in this arena. The efficiency of nurses can upset the output of the full health system. It is likely that unexplained cultural matters linked with being married may be responsible for a lower efficiency guide score among married female nurses in Saudi Arabia. (**Altakroni et al.,2019**)

From another point of views, **In Philippine**, The international migration of health workers has progressively highlighted on the schedule of global health agencies. Upgrading the negative impact of international nurse migration from low-income nations has been addressed by numerous western governments. One of the challenges in generating such guidelines is to realize how the emigration of trained nurses effects health education and clinical training strategies within nurse and how these relate to various SDGs (**Thompson & Walton-Roberts., 2019**).

In United States, Exploitation is different in its methods and rooted in health systems universal. Health sector exploitation straight delays development of universal health handling by impeding people’s access to quality health services and to safe and active medicines, and decline systems for financial hazard defense. Exploitation of sustainable development is aim to progress population health, encourage honesty and strong institutions and improvement of sustainable human development (**Mackey et al.,2018**).

In Sri Lanka , The cost sharing of health services is subsequent to terrible health disbursement for individuals and non-compliance with treatment regimen . These worries about provision and financing must be addressed, as health changeover will intensify the morbidity burden and loss of health and could derail plans to attain the health sustainable development (SDG) (De Silve et al.,2016).

Recently, nurses may sense of disengaged from the SDGs and struggle to relate the objectives of their clinical role, requesting an increase in awareness and education on the objectives. The profession could also increase both research and policy with relation to the SDGs, reinforcement nursing's position to have a voice in and donate towards accomplishment of the objectives and have opportunities to more expressively donate to the SDGs, commencement with an enlarged awareness through education and a assurance of research and participation in local and worldwide decision making (Fields et al.,2021).

Furthermore, nurses are principal frontline provision of patient care, public health observation and risk communication efforts, infection control and prevention creativities, and maintenance for students who are progressing into this profession. Nurses are also evolving critical research and policy efforts to progress health, to avoid disease, and to achieve all 17 of the United Nations Sustainable Development Goals (SDGs) (Osingada & Porta ., 2020).

Additionally, Direct nursing care is supplied in homes, schools, correctional settings, districts, hospitals, helicopters, combat zones, refugee camps, and post natural disaster or homeless shelters. Nurses progressing system level health are located in health care management, higher education, international nongovernmental administrations, and governmental offices. Nurse educators and researchers profile tomorrow's practitioners and practice. Overall, nurses update and create solutions to advance health and aggressively donate to attaining the 2030 Sustainable Development Goals (Porta et al.,2019).

in Latin America efforts made to confirm that a critical figure of nurses leads research progress in the field, with results that kindness leadership and contribution in public guidelines to power changes in the services in arrangement with the population's health requirements. One of the utmost effective pathways has been the application of nursing doctoral programs in link with local and worldwide requests (Mendes et al.,2020) .

Finally, Technology practice in nursing education applied in various methods as mobile technology, computer-based hardware, virtual reality, simulation background and telehealth. The researches included in current review painted the enhancement of learning consequences through using technology and established a positive behavior on the way to usage. It needs future studies and expansion basing on already extended knowledge (Kempi., 2021).

Aim : this a systemic brief review aims to highlight on the implications of Sustainable Development in Nursing field

Systemic search strategy

	Keyword	PubMed	CINAHL
1	Nursing services*	11,279	6522
2	Perception*	1243	1173
3	sustainability	1552	1024
4	Development	1905	1261
5	1 AND 2 OR 3	20	712
6	1 AND 2 OR 3 AND 4 AND 5	25	846
7	1 AND 2 OR 3 AND 4 AND 5 AND 6	0	0
8	Data filter	20	712
9	Filtered to English	25	846
10	Full Text	18	31

The search was further refined to include only English language articles published between 2015 to 2021. After applying specific filters, the number of studies reduced significantly. This search provided 20 studies from the Pub Med database and 712 studies from CINAHL. The studies were further filtered by using a data filter, wherein all the studies that did not meet the criteria were filtered. Out of 25 studies in the CINAHL database, the studies were filtered to English and 846 articles were found. After filtering for free Full-text articles, we obtained 18 articles. The applicable studies were related to PICO questions and were limited to nursing. The literature in this review comes from the different countries and presents a worldwide view of the evidence. The keywords were chosen as they cover the research concepts and help collect data so that research aim are met.

Systematic Search Process

The following PICOT research question guided the systematic search process:

What is sustainable development in nursing field?

The research was broken down into specific terms according to the PICOT mnemonic as follows:

P – Sustainable Development •

I – Nursing field •

C – Non •

O - Non •

T – 2022 •

The PICOT framework and research questions generated the search terms and the keywords that initiated the systematic search process. The main keywords include sustainable development , nursing field . A focused search necessitated the use of synonyms, phrases, and brand names to generate review that aligned with the PICOT research variables as outlined in the table below.

Keyword	Synonym
sustainability	The widest sense, sustainability refers to the capability to keep or maintenance a process endlessly over time. In business and policy frameworks, sustainability try to finds preventive strategies of natural or physical assets, so that they will persist them accessible for the long period
Sustainable development	The sustainable practices to support careers to cope with their environmental changes and to preserve life on regions
Nursing field	Refers to a career within the health care region concentrated on the care delivered for individuals, families, and communities so they may achieve, sustain, or improve best health and quality of life.

Table 1: Keywords and Synonyms

Theoretical Framework:

Nursing theory updates knowledge and theory-guided care needed for nurses working in all nations. While all surviving nursing theories are applicable, a few are discussed in detail to make obvious the relations between theory and Sustainable development (SDG) in order to helping to contextualize nursing practice through cover five Ps as People, Planet, Peace, Prosperity, and Partnership and theory remains dynamic to confirm nurses working in all departments are well-appointed to meet the needs of humanity and the world, now and in the future (**Rosa et al.,2019**).

Curiously, Florence Nightingale from the 19th-century founder of modern nursing long ago identified the forerunners to these Sustainable developments and emphasized on the significance of “health-nursing,” which she defined as “the art of health,... the agriculture of health.” (**Dossey et al ., 2019 & Lilienfeld et al.,2018**)

While, **Rosa et al.,2019** nosed from **WHO, 2016b** that nurses can drill self-confidence and create unified nursing and interprofessional teams and environments of reliable caring in hospitals, clinics, and communities.

Data search, review and collection:

The data for the guidebook was gotten from the recent researches done in relative to our paper topic from the year 2015- 2022. This enables us to get reliable and advanced information regarding the topic. The key words used for data search are:

- Sustainable development
- Nursing Practice
- Nursing Care
- Health Care
- Sustainable nursing strategies
- Implications of sustainable development in nursing care

Data is collected from reliable database searches through our main online library which is the Qassim university online library Saudi Digital Library (SDL) search which contain ebooks and articles such as

- Directory of open access journal.
- PubMed
- E-article

In the similar light, data is also collected from online searches on medical and nursing journal' websites (World Health Organization) in addition to online academic articles from Google scholar.

Implications of practice: Current review recommends the needs for educate the nurse regarding strategies for sustainable development in nursing practice as usage of sterilized disposable items, waste management techniques and facilities. Additionally, there are obvious needs for instructional guidelines / information on sustainable development attitude in using all devices / machines and turn off if not needed as suction machine, monitor / computer / light and television.

References:

- Altakroni, H., Mahmud, I., Elmossad, Y. M., Al-Akhfash, A., Al-Hindi, A., & Joshva, K. (2019). Healthcare productivity, and its sociodemographic determinants, of Saudi female nurses: A cross-sectional survey, Al-Qassim, Saudi Arabia, 2017. *International Journal of Health Sciences*, 13(6), 19. [PMCID: PMC6852504](#)
- Albejaidi, F. (2021). AN INVESTIGATION ON ROLE OF GREEN HUMAN RESOURCE MANAGEMENT PRACTICES ON SUSTAINABLE DEVELOPMENT OF ORGANIZATIONS. *Gomal University Journal of Research*, 37(4), 400-408. <http://www.gujr.com.pk/index.php/GUJR/article/view/1417>
- Bhutta, Z. A. (2017). Community-based primary health care: a core strategy for achieving sustainable development goals for health. *Journal of global health*, 7(1). DOI: [10.7189/jogh.07.010101](https://doi.org/10.7189/jogh.07.010101)
- De Silva, A., Ranasinghe, T., & Abeykoon, P. (2016). Universal health coverage and the health Sustainable Development Goal: achievements and challenges for Sri Lanka. *WHO South-East Asia Journal of Public Health*, 5(2), 82. [3151.206257](https://doi.org/10.1186/s12916-016-0257-7)
- Dossey, B. M., Rosa, W. E., & Beck, D. M. (2019). Nursing and the sustainable development goals: From Nightingale to now. *AJN The American Journal of Nursing*, 119(5), 44-49. DOI: [10.1097/01.NAJ.0000557912.35398.8f](https://doi.org/10.1097/01.NAJ.0000557912.35398.8f)
- Ekwebelem, O. C., Ofielu, E. S., Nnorom-Dike, O. V., Iweha, C., Ekwebelem, N. C., Obi, B. C., & Ugbede-Ojo, S. E. (2021). Threats of COVID-19 to achieving United Nations sustainable development goals in Africa. *The American Journal of Tropical Medicine and Hygiene*, 104(2). DOI: [10.4269/ajtmh.20-1489](https://doi.org/10.4269/ajtmh.20-1489)
- Fields, L., Perkiss, S., Dean, B. A., & Moroney, T. (2021). Nursing and the Sustainable Development Goals: A scoping review. *Journal of Nursing Scholarship*, 53(5), 568-577. <https://doi.org/10.1111/jnu.12675>

Heggen, K., Sandset, T. J., & Engebretsen, E. (2020). COVID-19 and sustainable development goals. *Bulletin of the World Health Organization*, 98(10), 646-646.
DOI: <http://dx.doi.org/10.2471/BLT.20.263533>

<https://urn.fi/URN:NBN:fi:amk-2021060113021>Kempi, E. (2021). Technologies in Nursing Education in Finland.

Kruk, M. E., Gage, A. D., Arsenault, C., Jordan, K., Leslie, H. H., Roder-DeWan, S., ... & Pate, M. (2018). High-quality health systems in the Sustainable Development Goals era: time for a revolution. *The Lancet global health*, 6(11), e1196-e1252.
DOI: [https://doi.org/10.1016/S2214-109X\(18\)30386-3](https://doi.org/10.1016/S2214-109X(18)30386-3)

Lilienfeld, E., Nicholas, P. K., Breakey, S., & Corless, I. B. (2018). Addressing climate change through a nursing lens within the framework of the United Nations Sustainable Development Goals. *Nursing Outlook*, 66(5), 482-494.
DOI: <https://doi.org/10.1016/j.outlook.2018.06.010>

Mendes, I. A. C., Ventura, C. A. A., Silva, Í. R., Gir, E., de Almeida, E. W. S., Queiroz, A. A. F. L. N., ... & de Sousa, Á. F. L. (2020). Alignment and contribution of nursing doctoral programs to achieve the sustainable development goals. *Human resources for health*, 18(1), 1-9.
DOI: <https://doi.org/10.1186/s12960-020-00530-7>

Mackey, T. K., Vian, T., & Kohler, J. (2018). The sustainable development goals as a framework to combat health-sector corruption. *Bulletin of the World Health Organization*, 96(9), 634. **DOI:** [10.2471/BLT.18.209502](https://doi.org/10.2471/BLT.18.209502)

Nomani, M. Z. M., & Hussain, Z. (2020). Innovation technology in health care management in the context of Indian environmental planning and sustainable development. *International journal on emerging technologies*, 11(2), 560-564.
DOI: <https://2u.pw/JRPwgR>

Osingada, C. P., & Porta, C. M. (2020). Nursing and Sustainable Development Goals (SDGs) in a COVID-19 world: the state of the science and a call for nursing to lead. *Public Health Nursing*, 37(5), 799-805.
DOI: <https://doi.org/10.1111/phn.12776>

Presch, G., Dal Mas, F., Piccolo, D., Sinik, M., & Cobianchi, L. (2020). The World Health Innovation Summit (WHIS) platform for sustainable development: From the digital economy to knowledge in the healthcare sector. In *Intellectual capital in the digital economy* (pp. 19-28). Routledge. **ISBN:** [978-1-138-29285-8](https://doi.org/10.1007/978-1-138-29285-8)

Porta, C. M., Disch, J., & Grumdahl, N. (2019). Nursing disruption for achieving sustainable development goals by 2030. *Nursing administration quarterly*, 43(4), E1-E11.
DOI: [10.1097/NAQ.0000000000000363](https://doi.org/10.1097/NAQ.0000000000000363)

Rosa, W. E., Upvall, M. J., Beck, D. M., & Dossey, B. M. (2019). Nursing and sustainable development: Furthering the global Specific instructions for a lymphatic massage agenda in uncertain times. *OJIN: The Online Journal of Issues in Nursing*, 24(2).
DOI: <https://doi.org/10.3912/OJIN.Vol24No02Man01>

Thompson, M., & Walton-Roberts, M. (2019). International nurse migration from India and the Philippines: the challenge of meeting the sustainable development goals in training, orderly migration and healthcare worker retention. *Journal of Ethnic and Migration Studies*, 45(14), 2583-2599.
DOI: <https://doi.org/10.1080/1369183X.2018.1456748>

Zamfir, D., Dumitrache, L., Stoica, I. V., & Virdol, D. (2015). Spatial inequalities in health care provision in Romania: milestones for territorial sustainable development. *Carpathian Journal of Earth and Environmental Sciences*, 10(3), 177-188.
DOI: <https://2u.pw/tCxDo4>