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Exploring Nurses' perceptions of Artificial Intelligence: A review of knowledge and attitudes among Registered and Student Nurses

9-13 June 2024

(2020)

Hashish (2024),

Atalla (2024), Alruwaili

Background

Al in Healthcare: Transforming how care is delivered.

Role of Nurses: Central to successful implementation.

Why It Matters: Understanding perceptions helps:

> Support adoption Reduce resistance

Improve outcomes

Ourpose: To explore the perceptions of AI among both registered and student nurses.

Methods

Search: Rapid review conducted via PubMed and BNU search engine (Sept 2024).

Inclusion: Original research, English language, published 2020-2024.

Focus: Studies on registered nurses or student nurses only.

Exclusion: Studies involving other healthcare professionals.

* Analysis: Data analysed using thematic analysis.

Findings

Studies Included: 15 total

9 on registered nurses

• 6 on student nurses

Designs:

13 cross-sectional surveys

1 descriptive phenomenology

1 mixed-methods

6 Themes Identified:

Al competence and educational enhancement

Perceptions and attitudinal dynamics towards Al

Impact and transformation in nursing practice

🎂 Ethical, legal and organisational concerns

| | Overarching Theme | Categories | Keywords | Example Papers |
|--|-------------------------------|------------------------------------|---------------------------|--|
| | | Digital health literacy | ,, , | Hashish (2024), Mekawy (2020), Morales-Garcia (2024) |
| | Al Competence and Educational | Curriculum reform and professional | curriculum learning needs | Salem (2024), Morales- Garcia (2024), Mekawy |

Thematic Analysis Mapping

Labrague (2023) ntegration, upskilling, nursing education teaching methods Morales-Garcia (2024) Lukić (2023), Labrague acceptance, trust, Positive perceptions openness, positive (2023), Amin (2024), and acceptance Perceptions and attitude, optimism Rony (2024)

Al in education,

Attitudinal Dynamics Salem (2024), Alruwaili Towards AI Concerns, anxiety anxiety, fear, scepticism, (2024), Özcevik Subaşi and resistance resistance, job insecurity (2024), Amin (2024)

Yigit (2024), Abuzaid Changing nursing role change, automation nursing transformation, roles and (2022), Rony (2024), Impact and workflow automation Tarsuslu (2024) Transformation in

Sommer (2024), Özçevik **Nursing Practice** AI tools and their decision support, robotics, Subaşi (2024), Alruwaili clinical application clinical AI tools, telehealth (2024), Tarsuslu (2024)

implications of Al (2024), Özçevik Subaşi security, patient consent (2024), Tarsuslu (2024) Ethical, Legal, and Organisational Concerns

regulation, policy, Morales-Garcia (2024), Governance, policy, standards, legal Atalla (2024), Rony and regulation framework, accountability (2024), Tarsuslu (2024)

ethics, privacy, bias, data

Abuzaid et al. (2022) https://doi.org/10.1007/s12553-022-00697-0; Alruwaili et al. (2024) https://doi.org/10.1177/20552076241271803; Amin et al. (2025) https://doi.org/10.1111/jan.16435; Atalla et al. (2024) https://doi.org/10.1186/s12912-024-02143-0; Hashish et al. (2024)

https://doi.org/10.1186/s12909-024-05482-3; Labrague et al. (2023) https://doi.org/10.1016/i.nepr.2023.103815; Lukić et al. (2023)

Ethical and legal

training

Al integration into

https://doi.org/10.1016/j.nepr.2023.103735; Mekawy et al. (2020)

https://doi.org/10.21608/ejhc.2020.274757; Morales-García et al. (2024)

https://doi.org/10.3390/bs14060437; Özçevik Subaşi et al. (2025) https://doi.org/10.1111/jan.16335;

Ronv et al. (2024) https://doi.org/10.1002/hsr2.70006; Salem et al. (2024)

https://doi.org/10.1155/2024/6992824; Sommer et al. (2024) https://doi.org/10.1186/s12912-024-01884-2; Tarsuslu et al. (2024) https://doi.org/10.1111/jnu.13008; Yigit et al. (2024)

https://doi.org/10.1111/jep.14062

Enhancement

Conclusion

Positive Views: Nurses see Al as improving care, diagnostics, and efficiency.

Scepticism Remain: Anxiety around job loss and ethical issues persists.

Call for Education: Strong support for AI training in nursing to meet future demands.

Recommendations

Skills Needed: Nurses require strong digital and AI competencies

Curriculum Action: Al education should be embedded in nursing programmes

Policy Priority: Clear guidelines are essential for ethical AI use in practice

<u>Stature Research:</u> Should explore:

Role transformation

Education effectiveness

Ethical and socioeconomic impacts





