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# AI and Ethics in Tunisian Healthcare

The integration of AI in healthcare offers great advancements. However, it also presents ethical challenges. This presentation explores the views of Tunisian healthcare professionals on these critical issues. We examine concerns about patient relationships and confidentiality. Our study emphasizes the need for human oversight in AI applications.

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# Study Objective

## Primary Goal

To describe ethical perceptions of AI use among healthcare professionals of the Salah Azaiez Institute (SAI)



## Focus Area

Understanding how doctors and residents view the ethical implications of artificial intelligence in healthcare settings

# Methodology

## Overview

1

### Study Design

A descriptive cross-sectional study was conducted among healthcare professionals of the SAI in July 2024.

2

### Anonymous

**Questionnaire** and unbiased responses.

3

### Targeted

**Professionals** at the Salah Azaiez Institute.

4

### Analysis

Responses were analyzed to identify patterns in ethical perceptions between doctors and residents.







# Demographic Snapshot

## 110

### Participants

Total healthcare professionals surveyed.

## 30.3

### Mean Age

Average age of the respondents in years.

## 0.32

### Gender Ratio

Proportion of males to females in the study.

A total of 110 healthcare professionals participated in the study. The mean age of participants was 30.3 years. The gender ratio reflects a diverse demographic. 22.7% were doctors, and 77.3% were residents.



# Concerns Over Doctor-Patient Relationship

1

## Resident Concerns

57.6% expressed concerns that AI might compromise the doctor-patient relationship.

2

## Doctor Concerns

52% of doctors shared similar concerns.

3

## Potential Impact

AI might compromise the doctor-patient relationship.

A significant number of healthcare professionals are concerned. AI might compromise the doctor-patient relationship. 57.6% of residents and 52% of doctors expressed these concerns. This highlights the need for careful ethical considerations.

# Confidentiality

## Neutrality Neutral Responses

29.1% showed neutrality.

### Doctor vs Resident

36% of doctors, 27.1% of residents.

29.1% of participants were neutral about AI's potential to violate medical confidentiality. 36% of doctors and 27.1% of residents expressed neutrality. This suggests uncertainty regarding AI's impact on patient privacy.



# AI as a Support

## Majority Agreement

86% believe AI should support.

## Support, Not

**Replace**  
AI should not replace doctors.

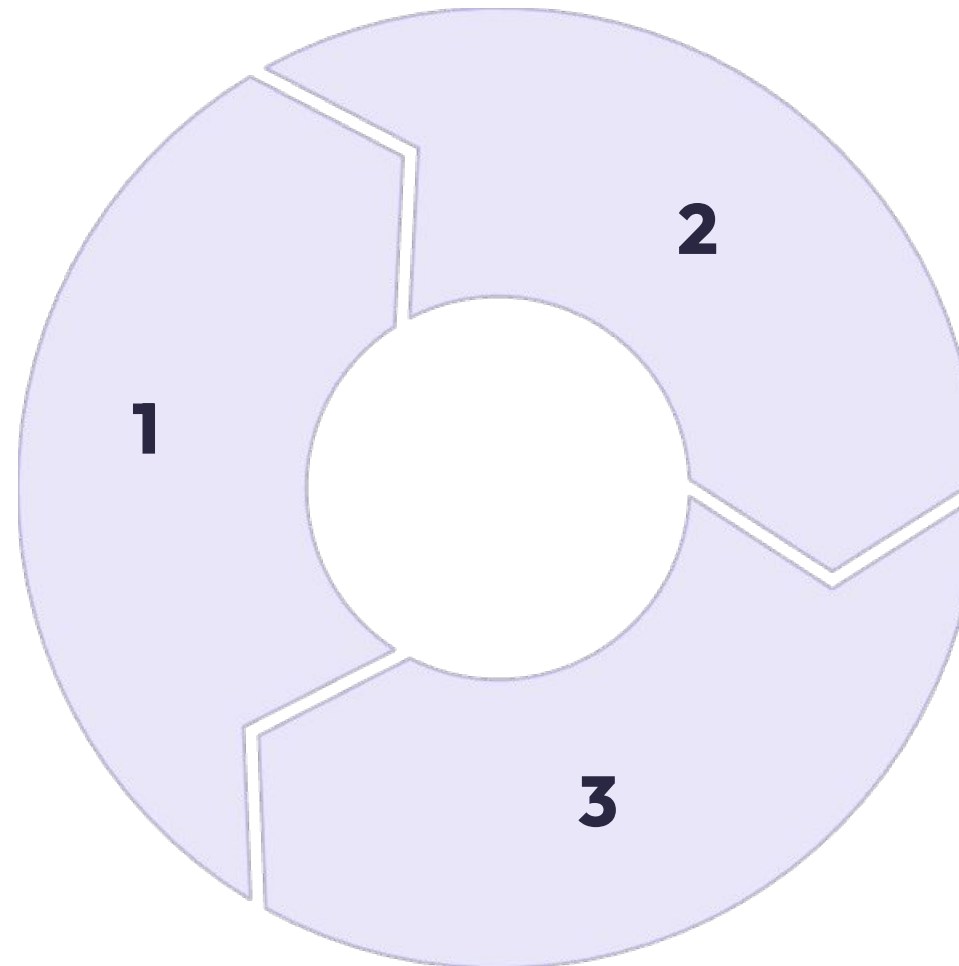
The majority of respondents (86%) agreed that AI should support, not replace, doctors. This reflects a desire to maintain human expertise. There is also a need to ensure ethical control in decision-making.





# Need for Human Supervision

**High Agreement**  
88.2% emphasized supervision.



## **Doctor vs Resident**

92% of doctors, 87% of residents.

## **Ethical Operation**

AI should operate under supervision.

A large majority (88.2%) emphasized the need for human supervision of AI. This included 92% of doctors and 87% of residents.

Participants believe AI should always operate under the guidance of medical professionals. This is crucial for ethical integrity.

# Key Conclusions

1

## **Cautious Optimism**

Healthcare professionals see benefits.

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2

## **Ethical Oversight**

Emphasis on careful ethical considerations.

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3

## **Human Supervision**

Maintaining human control in AI applications.

Healthcare professionals in Tunisia show cautious optimism towards AI. They recognize potential benefits, but emphasize ethical oversight. Human supervision is essential in AI applications. This approach preserves ethical integrity in healthcare.



# Moving Forward



## Further Research

Conduct deeper investigations.



## Ethical Guidelines

Develop clear guidelines.



## Training Programs

Implement training for AI use.

Further research is needed to conduct deeper investigations. It is important to develop clear ethical guidelines. Also, implementing training programs for AI use will promote responsible adoption. These steps will ensure AI integration aligns with ethical standards.



**Thank you for your attention**