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Artificial Intelligence and Hidradenitis Suppurativa:

Validity and reliability of Artificial Intelligence by experts as public sources of information for patients

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Introduction

- Hidradenitis Suppurativa (HS)
 - Chronic, inflammatory skin disease.Causes significant pain and discomfort.
 - Patients may hesitate to discuss symptoms.
 - Potential delay in diagnosis and treatment.
- HS patients increasingly using online resources
- ❖ Al as a Solution
 - Al bridges communication gap.
- Aims to reduce diagnosis time (currently 8 years)

Materials

Study Objective:

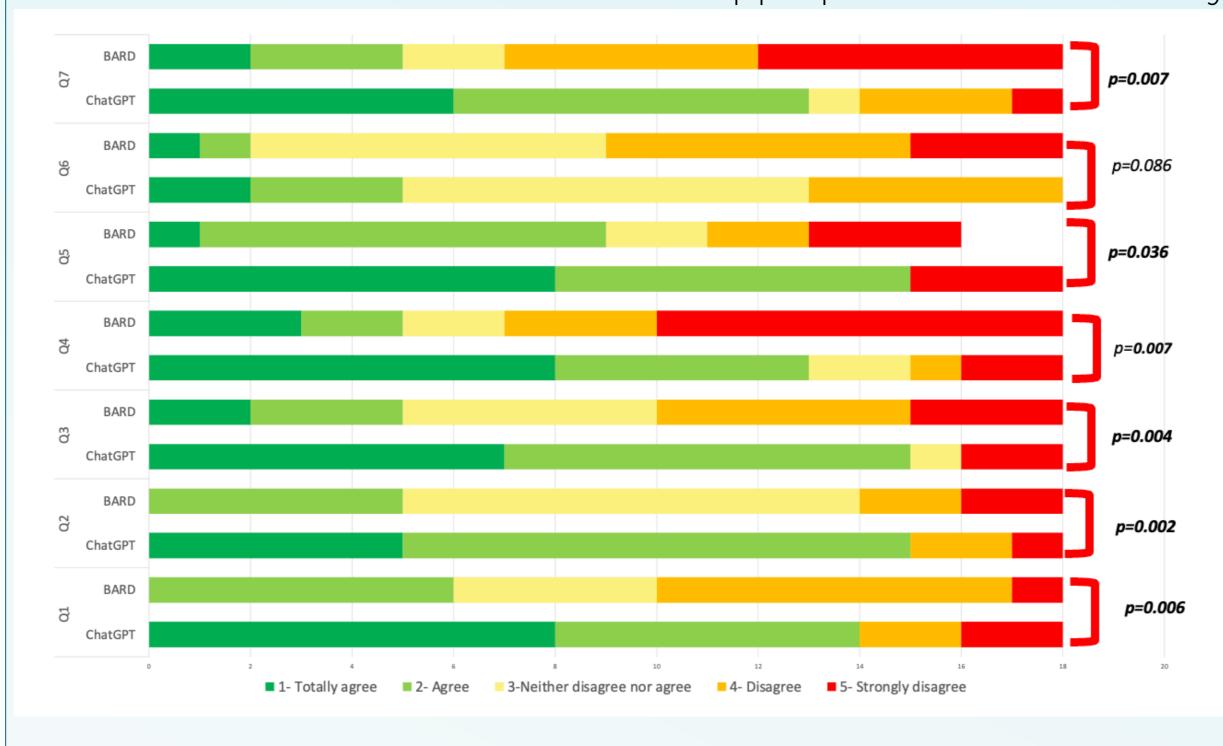
- Assess and compare validity of 2 Al responses: ChatGPT and Google BARD

- Questions from potentially/diagnosed HS patients.

- Q1: I have abscesses in my armpits and/or perianal folds and/or pubic area all the time. What could it be?
- Q2: I have several abscesses at the same time in the groin crease, armpits, perianal folds... what could it be?
- Q3: What is HS? And is it a serious disease?
- Q4: Is it hereditary?
- Q5: Which doctor do I need to see?
- Q6: What treatments are available?
- Q7: In the meantime, what advice can you give me to improve my situation?
- Evaluated by a group of HS experts.

Results

- ChatGPT provided relatively shorter answers: 228± 48 words versus 254± 77 for BARD
- Both IAs encouraged users to consult a doctor
- *But neither recommended consult the websites of learned societies
- ChatGPT answers were deemed as appropriate in 86% and only in 14% for Google BARD



- The majority of ChatGPT responses were significantly deemed suitable when comparing to Google BARD
- Limitation: Al chatbot are not validated medical devices





Validity of GPT-3.5 responses was significantly higher than that of Google Bard (p < 0.0001)</p>

	Score for ChatGPT 3.5 mean (SD)	Score for BARD, mean (SD)	P value
Q1	2.1± 1.4	3.2±1	0.006
Q2	2.1±1.1	3.1±0.9	0.002
Q3	2±1.2	3.2±1.2	0.004
Q4	2.1±1.3	3.6±1.5	0.007
Q5	2.1±1.4	2.8±1.3	0.036
Q6	2.0±0.9	3.5±1	0.086
Q7	2.2±1?2	3.6±1.4	0.007

Results

- **❖ Validity Comparison** GPT-3.5 vs. Google Bard:
- GPT-3.5 responses significantly more valid than Bard (p = .008)
- Patient Understanding and Efficiency
- ChatGPT responses deemed very helpful or quite helpful, especially for patients unaware of their HS diagnosis
- Less efficient for treatment-related queries
- Diagnostic Credibility
- Google Bard: provides less credible information, particularly for diagnostic questions related to HS.
- Treatment Insights
- Al Performance: No clear superiority in treatment information between ChatGPT and Google Bard.
- Emphasizing advice for enhancing patients' QOL
- Quality of Information?
- ChatGPTs' Advantage:
- ChatGPT offers superior information on treatment and advice to enhance patients' quality of life

Conclusion

- Als, such as ChatGPT and Bard, show promise in aiding access to medical counseling and potentially reducing diagnostic delays.
- Important to acknowledge the potential for generating biased misinformation, posing risks to patient care.
- Caution against replacing medical consultation with AI.