

THE ECOSYSTEM OF EVIDENCE

Navigating the future
of the ecosystem of evidence

Artificial intelligence and digital transformation
in research and healthcare

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#EBHC2026

Communication of key results in evidence summaries generated by ~~AI and~~ HTA

An exploratory study

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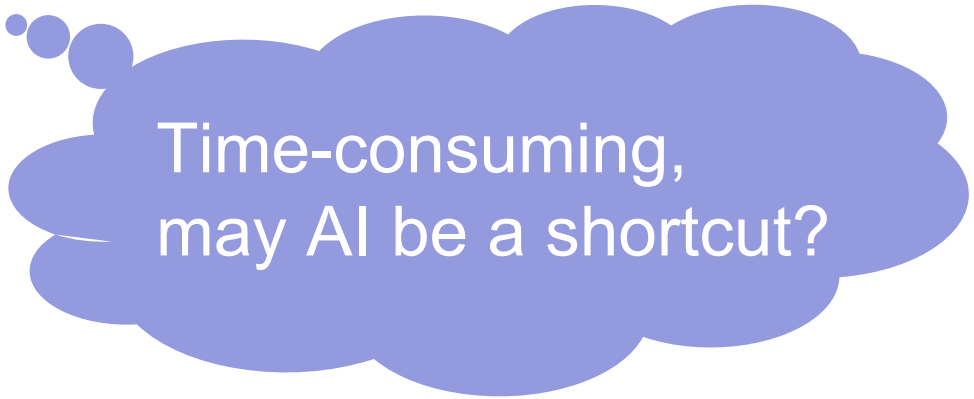
30th 1996-2026 GIMBE EVIDENCE FOR HEALTH

International Society for Evidence-Based Health Care

Background

For recipients of HTA including decision makers key HTA results concern:

- Patient benefits and risks
- Certainty of evidence
- Costs



Aims

To what extent do HTA summaries and AI-generated summaries present key results regarding:

- Patient benefits
- Patient risks
- Costs
- Related uncertainties

To what extent do overall findings communicated in AI-generated summaries agree with those in HTA summaries?

Methods



Questions in healthcare adressed by regional HTA center

HTA summary

AI summary

Independent assessments

Coverage of
- Patient benefits
- Patient risks
- Costs
- Related uncertainties

Overall finding

Consensus

Results

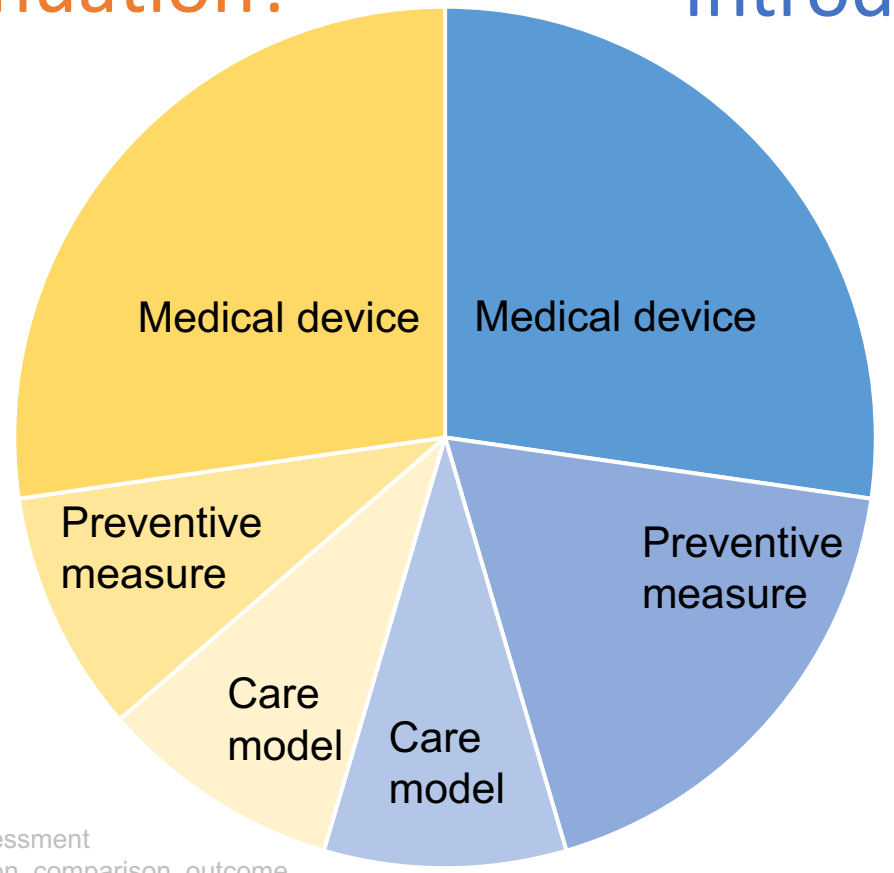
All 15 HTAs
published in 2025 by three regional HTA centres in Sweden

- Qualitative (n=1)
- No medical intervention (n=2)
- No P defined (n=1)

11 HTA summaries
11 evidence syntheses by AI
(using a prompt based on the PICOs for the HTAs)

Discontinuation?

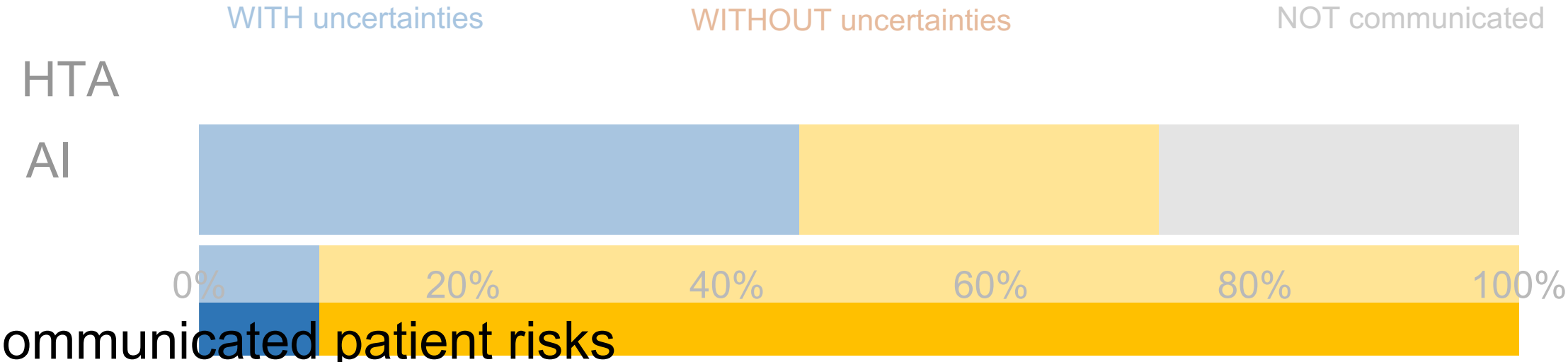
Introduction?



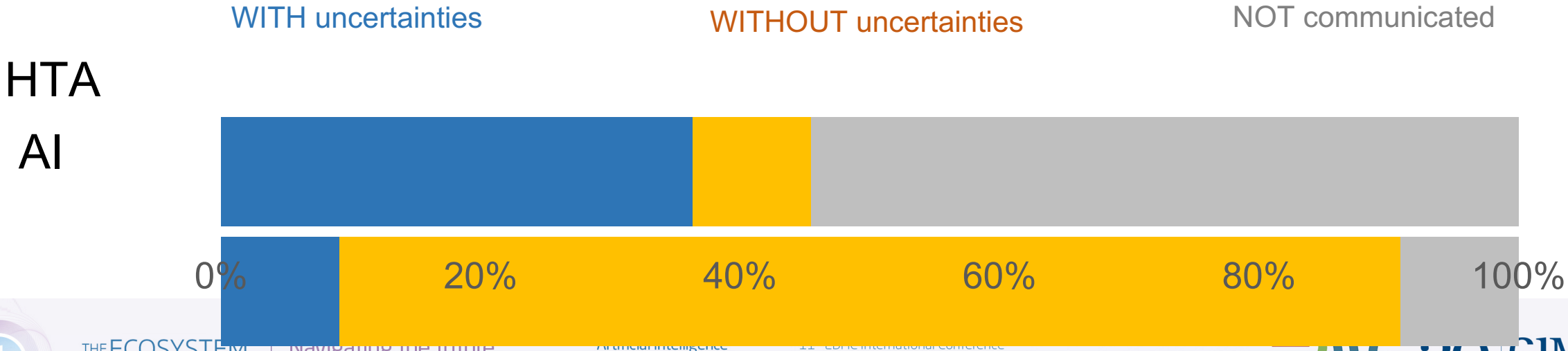
AI = artifical intelligence
HTA = health technology assessment
PICO = population, intervention, comparison, outcome

Results

Communicated patient benefits

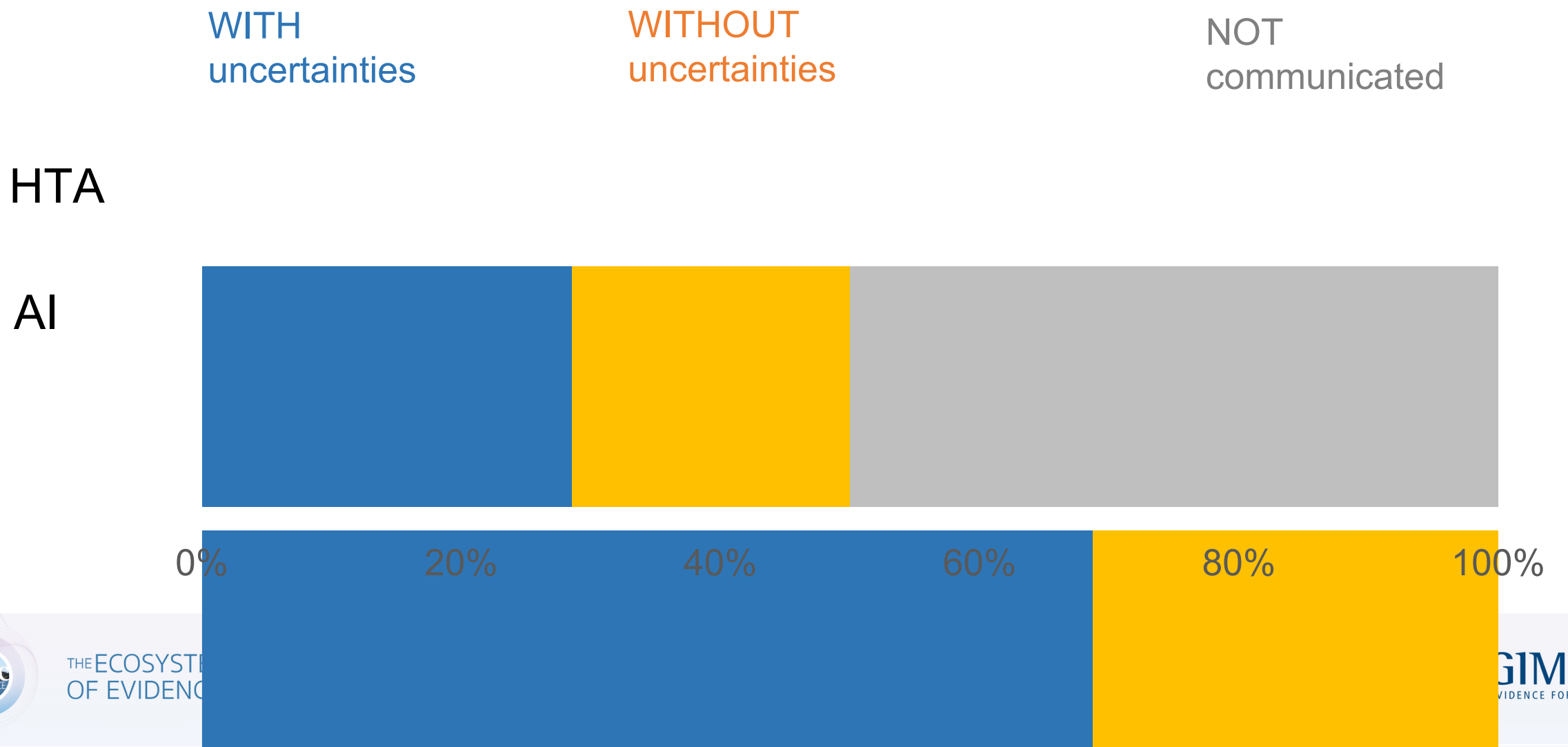


Communicated patient risks



Results

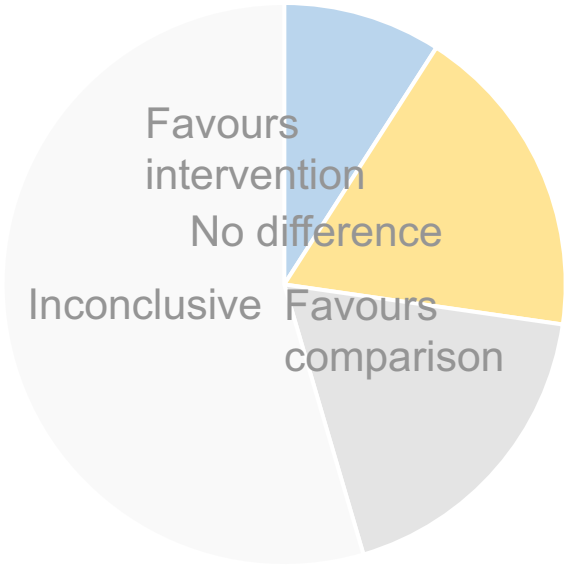
Communicated costs

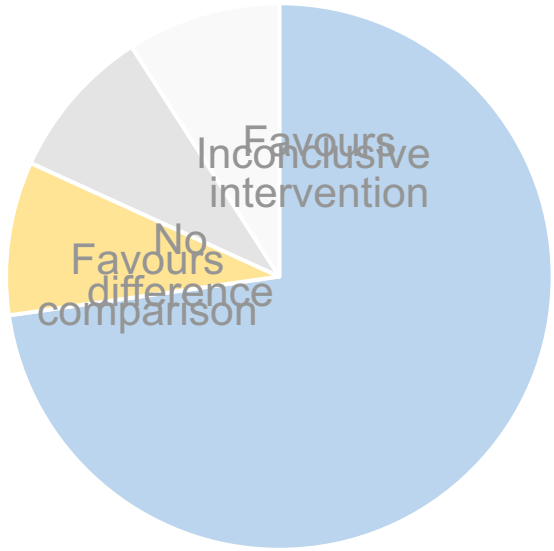


Results

Overall finding

HTA summary



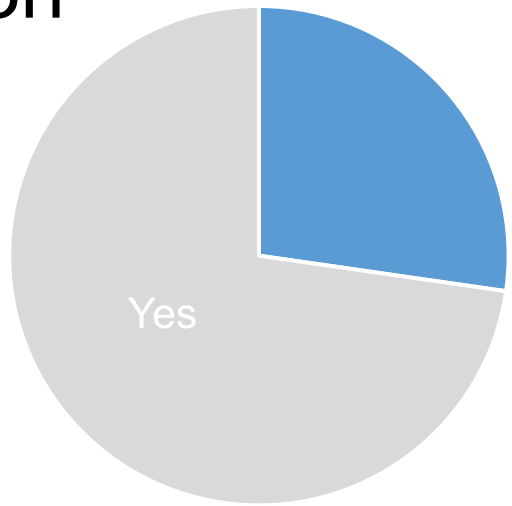


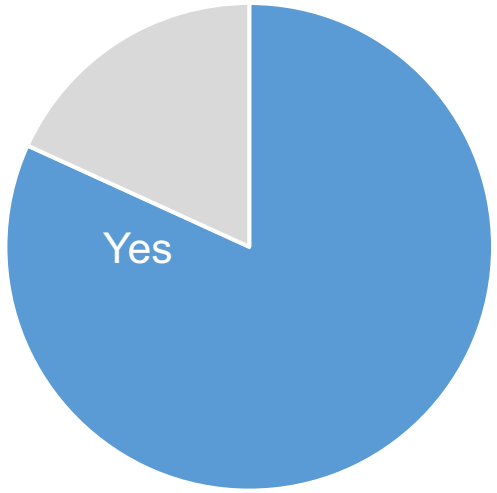
AI summary

Agreement in interpretation of overall results



HTA summary





AI summary

Limits

- Based on few projects by three Swedish HTA bodies
- Used Copilot – an AI tool not specifically developed for evidence synthesis

Conclusions

AI-generated summaries:

- often covered key aspects for decision-making: patient benefits, patient risks, costs
- seldom described uncertainties related to benefits and risks
- more often favoured the intervention compared with HTAs summaries

HTA authors could consider to more consistently and clearly communicate key aspects for decision-making