



Real-time Delphi consultation on medication adherence technologies: consistency of views among different stakeholder groups

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OBJECTIVE

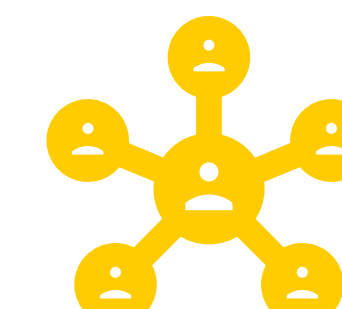
The ENABLE COST Action (CA19132) aims to develop an online repository of medication adherence technologies (MATech). We explored stakeholders' level of agreement on the relevance and clarity of the proposed MATech definition and repository structure. We examined the consistency among their views.

METHODS

Stakeholders were invited to respond to an online real-time Delphi survey to rate to what extent they perceived definitions and attribute groups are relevant and clear for describing medication adherence technologies in an online repository.



Oct 21 – Jan 22
12 weeks
eDelphi.org



39 ENABLE countries, 250 stakeholders
5 stakeholder groups
research, practice, policy, patients, eHealth

We analysed responses quantitatively to examine:

- a) **MATech definition**
MATech are **devices, procedures or systems** developed based on **evidence** to support patients to **take their medications as agreed with the healthcare providers** (to initiate, implement and persist with the medication regimen).

1)

Agreement on the **relevance and clarity** of the definition and attributes (9-point Likert scale)

RAND/UCLA Appropriateness Method
Disagreement index (DI) = IPR/IPRAS;
DI > 1 disagreement exists

Median = 7-9 + no disagreement → *relevant, mandatory & clear*
Median = 4-6 or disagreement → *optional & considering changes*
Median = 1-3 + no disagreement → *not relevant, potential exclusion & rephrasing*

b)

21 attribute groups + definitions, structured in 3 domains

D1. Product and provider information
D2. Medication adherence descriptors
D3. Evaluation and implementation

2)

Consistency of results among stakeholder groups

Intraclass correlation coefficient (ICC)

FINDINGS

Ratings for MATech DEFINITION per stakeholder group

RESPONSE RATE

$N_{\text{definition}} = 117$ (46.8%)
 $N_{\text{full survey}} = 83$ (33.2%)
 $N_{\text{countries}} = 32$ (82.5%)

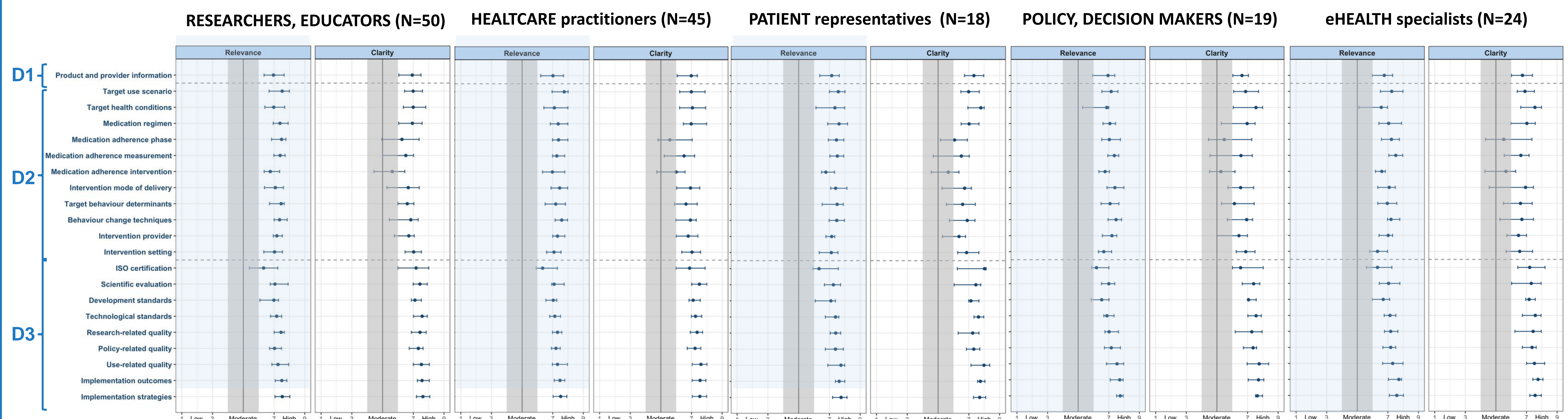
34 (41%) participants identified with >1 stakeholder group

	RELEVANCE		CLARITY	
	median	30th-70th percentile	median	30th-70th percentile
RESEARCHERS	7.05	6.10-7.77	7.48	6.91-8.01
HCP	7.01	6.11-7.45	7.38	6.51-7.86
PATIENT REPRESENTATIVES	6.74	5.99-7.18	7.09	6.63-7.74
POLICY	6.86	6.19-7.40	7.54	7.14-7.97
eHEALTH	6.74	6.01-7.41	7.59	7.01-8.01

ICC

ICC_{overall} = 0.97
ICC_{relevance} = 0.95
ICC_{clarity} = 0.97

Median ratings with dispersion for relevance and clarity presented for every attribute group



CONCLUSION

Groups rated relevance and clarity for MATech definition and attribute groups as **highly relevant**, with few exceptions. The **high consistency** across groups indicates a solid common ground for the development of the MATech repository. Free text comments are currently under analysis for improving the clarity of some attribute labels and definitions.