

WP 5

Exploring health preferences of different sub-population groups using EQ-5D

Wolfgang Greiner, Simone Kreimeier,
Juan M. Ramos-Goñi and Valentina Rupel

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Aim & Methodology

Aim:

- WP5 aimed to explore health state preferences on different sub-population groups using EQ-5D-5L and EQ-5D-Y-3L

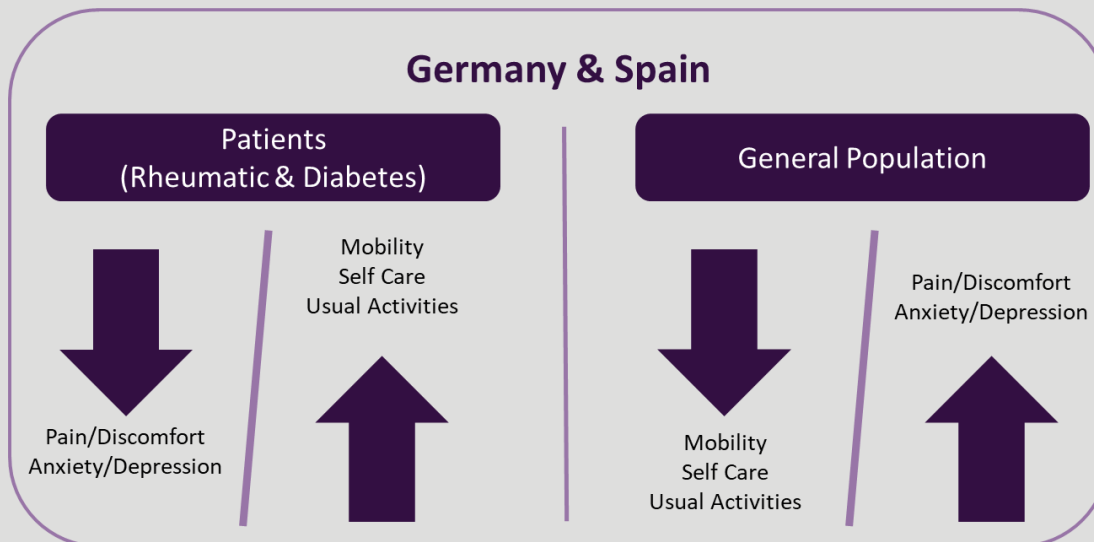
Methods:

- Online discrete choice experiments (DCE) to value health states

	Patient survey	Adolescent survey	Adult survey
Country	Germany, Spain	Germany, Slovenia, Spain	Germany, Slovenia, Spain
Health states described by	EQ-5D-5L	EQ-5D-Y	EQ-5D-Y
Perspective	Valued health states for themselves	Valued health states for themselves	Valued health states for a 10-year old child
Sample size	N=1,700	N=2,129	N=3,109

Main Findings I

Patient vs. General Population Preferences:



- Approach combining patient preferences and the utility scale from national values sets was developed

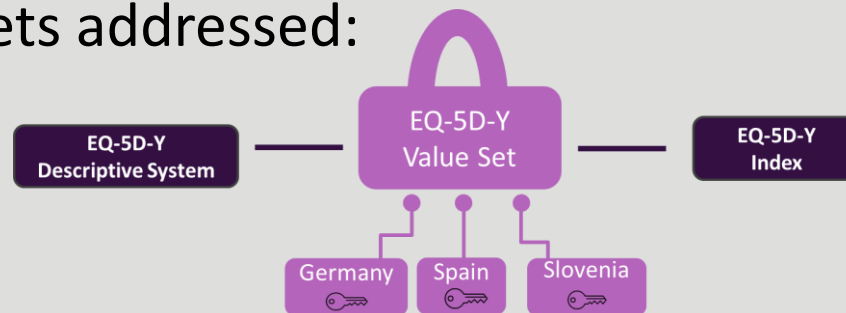
→ Output: Guidance/Methodology

Main Findings II

Adult vs. Adolescent Preferences:

- Relative importance of health dimensions was to a large degree similar between adults and adolescents
 - Slovenia & Spain: adolescents = more importance to mobility and self care than adults
- Rank-order of the dimension level combinations showed slight differences between adults and adolescents in all countries

Gap of EQ-5D-Y value sets addressed:



→ Output: Guidance/Methodology & Value sets

Main Findings III

EQ-5D-Y value set for Slovenia

Table 2 Regression results of mixed logit model and rescaled coefficients using anchor score

	Mixed logit		Rescaled ^a
	Coeff.	Std. dev.	Coeff.
Mobility 2	- 0.562*** (0.070)	0.215 (0.171)	- 0.083*** (0.011)
Mobility 3	- 2.062*** (0.122)	1.346*** (0.156)	- 0.305*** (0.016)
Self-care 2	- 0.314*** (0.067)	0.372** (0.122)	- 0.046*** (0.009)
Self-care 3	- 1.491*** (0.100)	0.923*** (0.129)	- 0.221*** (0.013)
Usual activities 2	- 0.714*** (0.058)	0.502*** (0.101)	- 0.106*** (0.009)
Usual activities 3	- 2.177*** (0.097)	1.275*** (0.109)	- 0.322*** (0.013)
Pain/discomfort 2	- 1.097*** (0.065)	0.890*** (0.0838)	- 0.162*** (0.010)
Pain/discomfort 3	- 3.126*** (0.125)	2.101*** (0.123)	- 0.463*** (0.016)
Anxiety/depression 2	- 0.793*** (0.064)	0.738*** (0.084)	- 0.117*** (0.009)
Anxiety/depression 3	- 2.565*** (0.110)	1.907*** (0.104)	- 0.380*** (0.014)
Log-Likelihood	- 7369.1		
AIC	14868.27		
BIC	15367.93		
Observations	16110		
Respondents	1074		

* $p < 0.001$

^aBootstrapped (10,000,000 simulations)

Rupel V, Ogorevc M, IMPACT HTA HRQoL Group (2021): EQ-5D-Y Value Set for Slovenia; PharmacoEconomics 39:463–471; <https://doi.org/10.1007/s40273-020-00994-4>

Impacts & Future Research

Impacts of WP5 results:

- Raises awareness to HTA institutions: different value sets might lead to different decisions in context of HTA
- Contributes to discussion on whose preferences should be the basis of HRQoL instruments value sets
- Patient preferences and adolescent preferences → use for treatment decisions in clinical settings
- EQ-5D-Y value sets enable instrument's use in economic evaluations, especially cost-utility analysis, for pediatric health care interventions

Future Research:

- Further exploration of approach suggested to combine patient preferences with general population preferences of national value sets
- Stakeholder involvement in discussion on whose preferences to use
- Handling of differences between value sets for adults and children

Thank You For Your Attention!

Team:

Wolfgang Greiner

Mail: wolfgang.greiner@uni-bielefeld.de

Simone Kreimeier

Mail: simone.kreimeier@uni-bielefeld.de

Juan M. Ramos Goñi

Mail: juanmanuel.ramosgoni@gmail.com

Valentina Rupel

Mail: katka.rupel@gmail.com