



MedTech20[®]

When the patient is the user; measuring the impact of medical devices on patient's everyday life

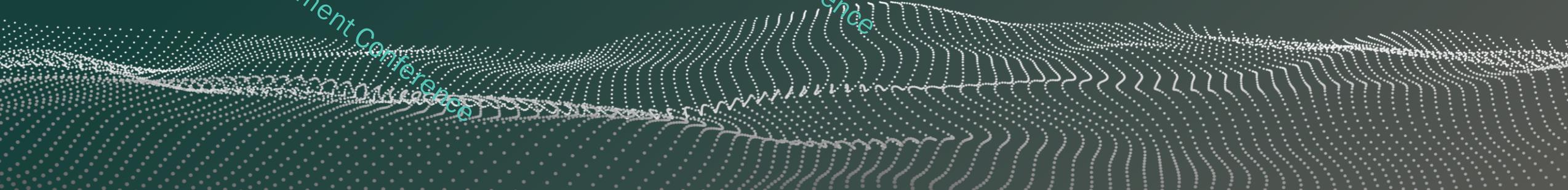
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5th Value-Based Procurement Conference

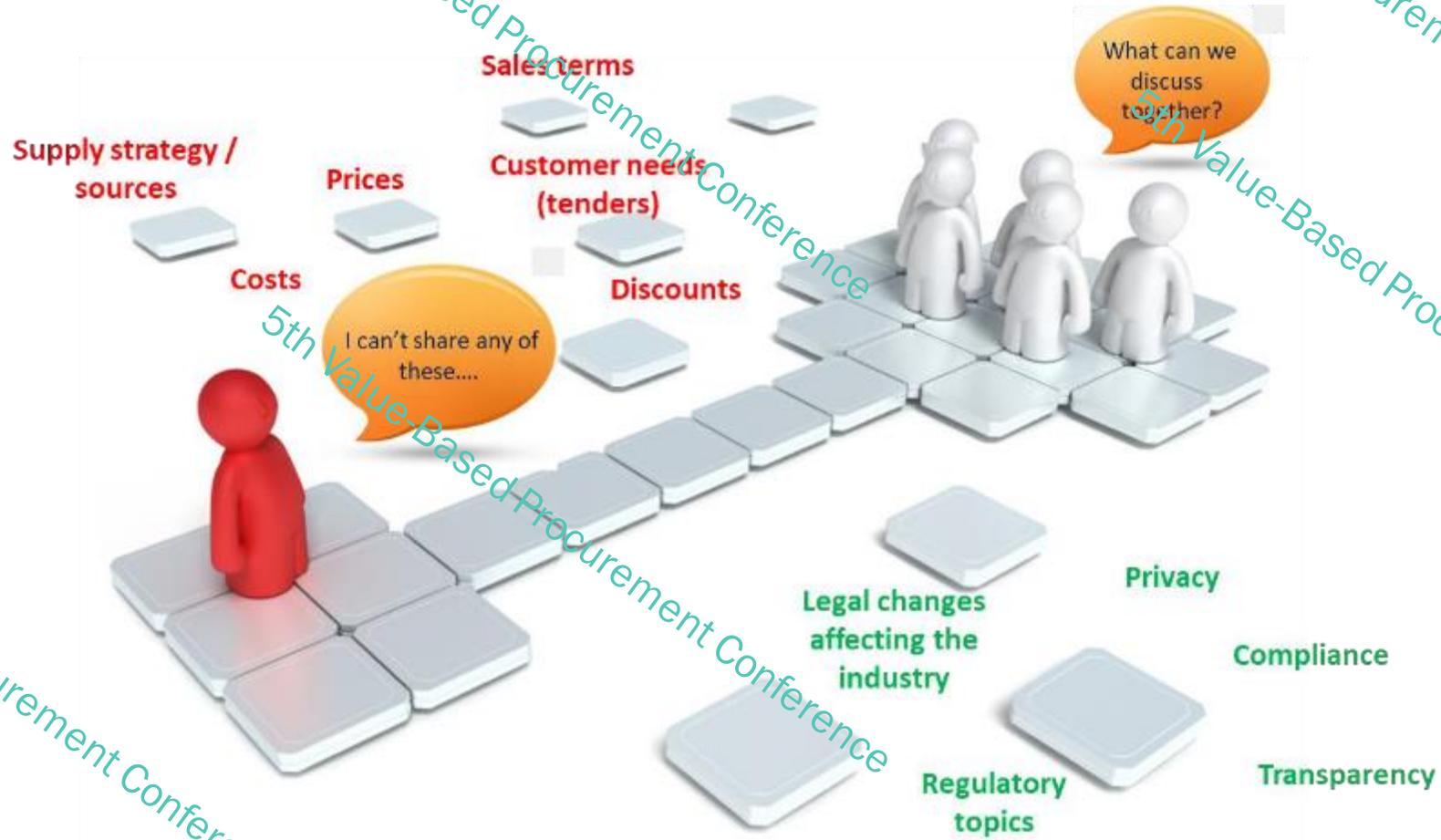
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Competition law reminder



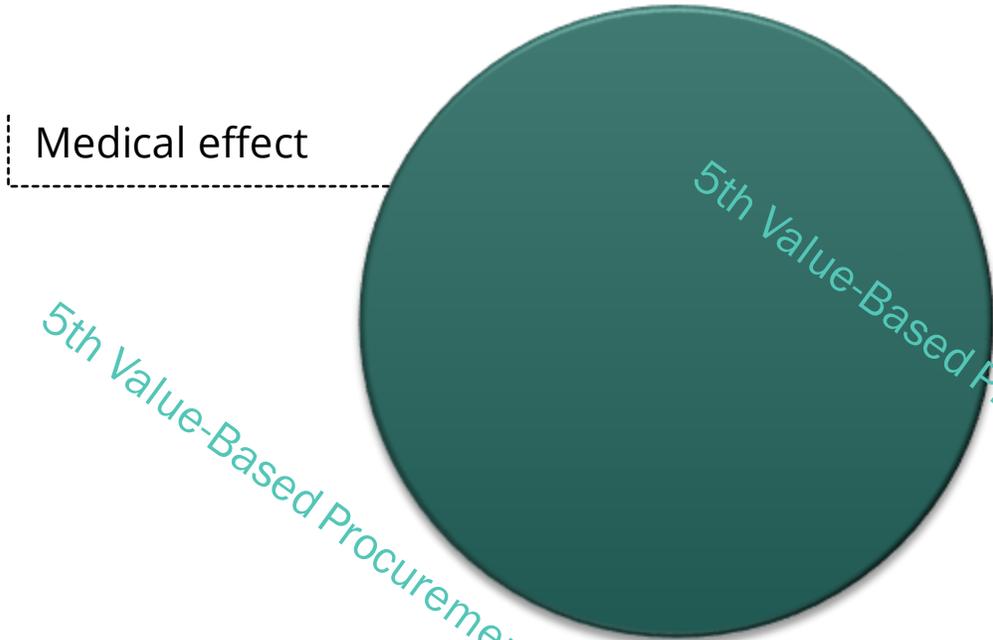
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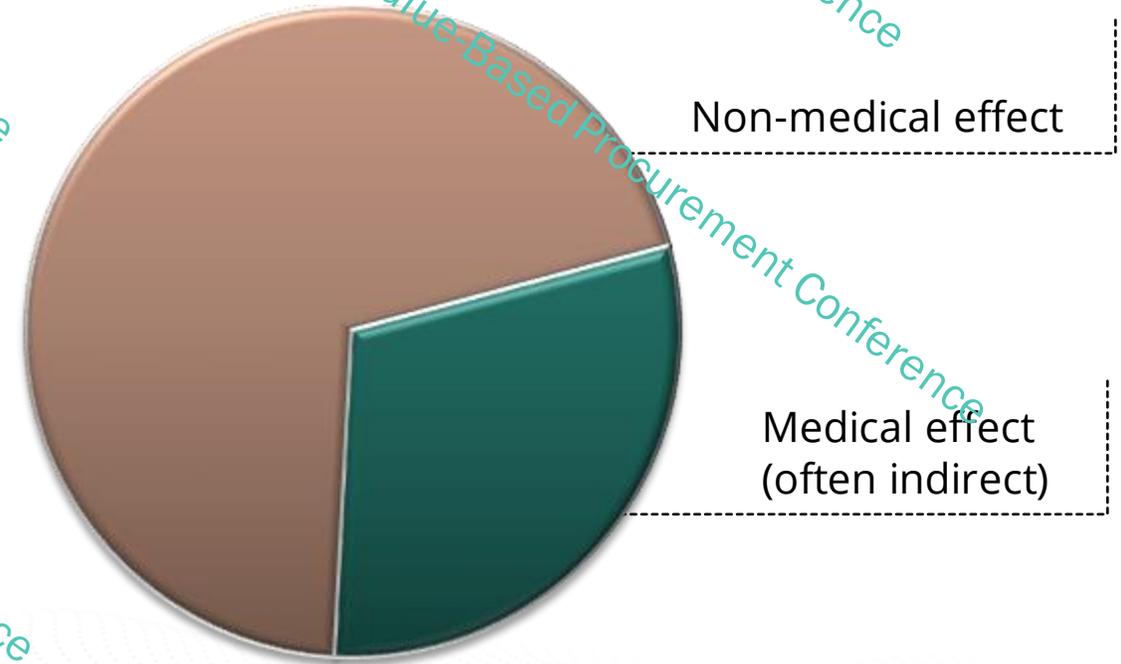
Perceived patient benefits

Pharmaceuticals



Medical devices

(used by the patients themselves)

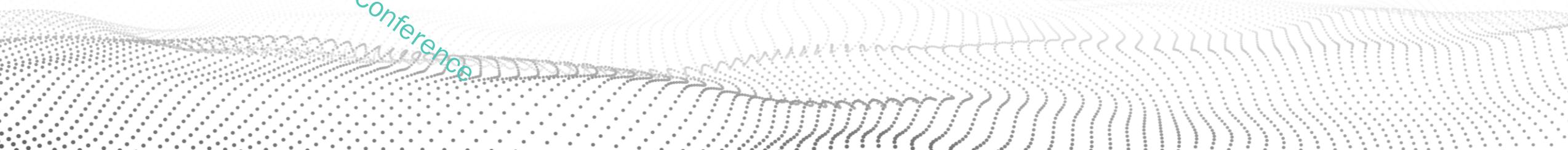


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The development - Part 1

Face-to-face interviews with health-care professionals

(≈ 45000 patient-contacts)

Tests

- No. of respondents = 119
- No. of respondents = 260

Reference groups

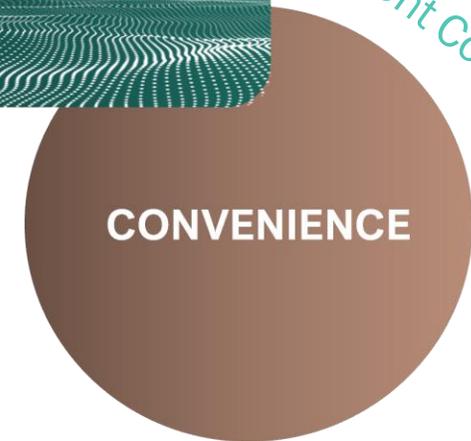
- Health-care sector
- Companies
- Patient organisations

Cognitive interviews

We received input from the Swedish Benefits Board (TLV) during the development process

MedTech20[®] Questionnaire

- 4 areas
 - 20 scientifically validated product features
 - How well does it correspond to the product you use?
 - Results in a product profile





MedTech20[®] does not measure health effects

- It DOESN'T ask how the PATIENT is feeling
- It asks "How does your MEDICAL DEVICE affect your everyday life?"
- Not a replacement, it's a complement
 - Health effects do not provide the full picture - the impact is multidimensional
 - The design and function of the medical device → Possibility and willingness to use the device
 - Do you understand it?
 - Does it create unwanted attention?
 - Does it affect your sleep, leisure activities or any other area?

Part 2: Ranking of the product properties – a population study

Mapping the public's preferences

Population study in Sweden

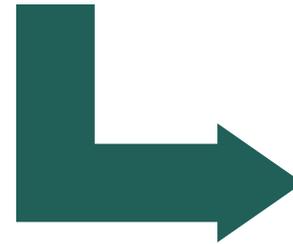
- Invited: 15,000 individuals \geq 18 years or older,
Response rate: 37%
(n=5,546)
- N= 3,802 after adjustment for age, gender & region

Statistical analysis

- Calculation of how the product properties are valued in relation to each other
- The result was a relative weight for each product property

MedTech20[®] Index

Patients' responses from MedTech20[®] Questionnaire are given numeric values and combined with the relative weights of the product properties from the population study.



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a value between 0 and 1

- An estimate of the impact of the device on everyday life
- A point of reference for comparison between products

Some characteristics of the study population*)

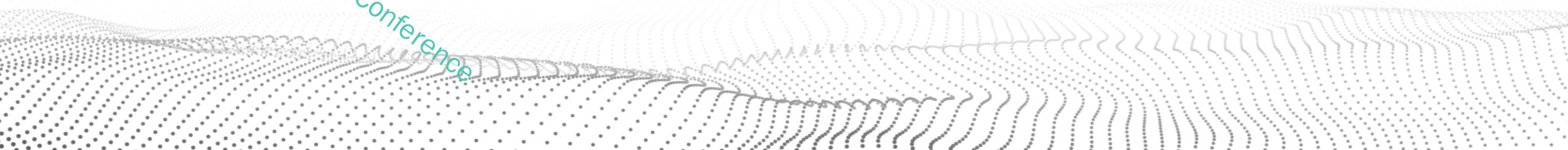
Characteristics of respondents	Yes n (%)	No n (%)	Missing, n
Personal experience from a long-lasting disease	1,169 (31.6)	2,535 (68.4)	98
Personal experience from a long-lasting disability	744 (19.9)	2,995 (80.1)	63
Personal experience from use of a medical device	1,227 (33.3)	2,462 (66.7)	113

*After adjustment for Age, gender and residential region

Difference in preferences between subgroups (p<0,001)

Women > Men	Young (18-59) > Old (60-95)	Old (60-95) > Young (18-59)
<ul style="list-style-type: none"> <input type="checkbox"/> Facilitation of personal hygiene <input type="checkbox"/> Adaptability to personal needs 	<ul style="list-style-type: none"> <input type="checkbox"/> Reduced sense of being ill/having a disability <input type="checkbox"/> Facilitation of closeness or intimacy <input type="checkbox"/> Reduced sense of comprised integrity <input type="checkbox"/> Reduction of unwanted attention from others <input type="checkbox"/> Facilitation of leisure activities <input type="checkbox"/> No discomfort during usage 	<ul style="list-style-type: none"> <input type="checkbox"/> Facilitation of personal hygiene <input type="checkbox"/> Adaptability to personal needs <input type="checkbox"/> Aid to remember tasks <input type="checkbox"/> Feedback on correct/incorrect use

Respondents without personal experience from a long lasting disease perceived that compromised integrity (someone getting to close) was more important than respondent with such experience



Summary

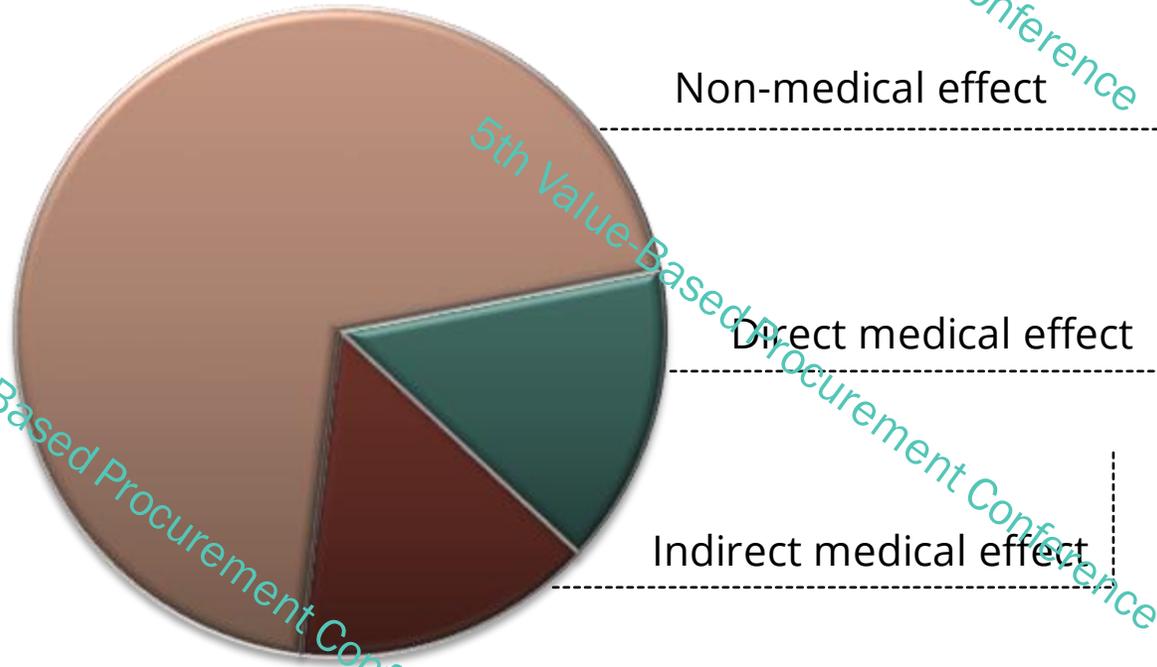
MedTech20® is a standardised tool for evaluating patients' value in everyday life of medical devices, services and solutions.

Can support companies and health-care decision-makers in understanding patients' needs beyond direct medical effects.

Lesén E, Björholt I, Ingelgård A, Olson F. Intl J Technol Assessment in Health care. Exploration and preferential ranking of patient benefits of medical devices: A new and generic instrument for health economic assessments 2017;33(4): 463–471.

Perceived patient benefits of medical devices

Used by the patients themselves



Group work

- How are **indirect medical effects** evaluated in the procurement of medical devices?
 - What additional value could patients' experiences of using such products have in Value Based Procurement?
- Are **non-medical effects** considered in the procurement of medical devices? If yes, how?
 - What additional value could patients' experiences of such effects have in Value Based Procurement?

Indirect medical effect: e.g. monitoring of blood sugar levels, blood pressure etc. Medical effect occur if relevant action is taken by the patient.

Non-medical effect: impact on patient's everyday life



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