

IPDAS Deliverables, Impact, & Next Steps 2003-2017

IPDAS Steering Committee:
Dawn Stacey/Pending (Co-Leads),
M Barry, N Col, A Coulter, M Härter,
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Purpose:

To enhance the quality and effectiveness of patient decision aids by establishing a shared evidence-informed framework for improving their content, development, implementation, and evaluation.



Steering Committee Functions:

- 1. Oversee process for maintaining/revising IPDAS criteria
- 2. Provide guidance to enhance reporting of research on PtDAs
- 3. Facilitate stakeholder involvement in IPDAS
- 4. Disseminate and implement IPDAS criteria by overseeing and setting principles for:
 - use and refinement of the IPDASi instrument
 - production of quality-assured IPDAS training materials
- 5. Monitor progress of IPDAS working groups
- 6. Approve consensus statements and publication of IPDAS



IPDAS@listserv.dartmouth.edu

This IPDAS email list is used:

- as a membership register
- 2) to communicate
- 3) to agree on a process to convene a Steering Group
- 4) for future research / development of the IPDAS criteria

To be added, ask a current member to introduce you by citing your interest and expertise relevant to IPDAS. If you don't know a member, see Who's Involved on the IPDAS website at http://ipdas.ohri.ca



IPDAS Phases

2003-2006 IPDAS Checklist

2006-2009 IPDASi Instrument

2009-2013 IPDAS Minimal Standards

2011-2013 Updated evidence underlying the

IPDAS Checklist

2014-2017 Reporting guidelines



Objective:

To establish internationally approved criteria to determine the quality of <u>patient decision aids</u>. These criteria are helpful to individuals and organizations that use and/or develop patient decision aids:

- Patients
- Practitioners
- Developers
- Researchers
- Policy makers or payers

To learn more, visit: ipdas.ohri.ca

>100 participants from 14 countries



International Patient Decision Aids Standards Collaboration Quality Criteria

12 Dimensions

Essential Content

- Information
- Probabilities
- Values clarification
- Guidance
- Patient Stories

Effectiveness Criteria

- Decision process
- Decision quality

Generic Criteria

- Development process
- Disclosure
- Internet delivery
- Balance
- Plain language
- Up to date evidence

Elwyn, et al., BMJ. 2006 Aug 26; 333(7565):417. http://www.ncbi.nlm.nih.gov/pubmed/16908462



Summarized evidence to inform voters

I. Using a systematic development process

What is this criterion? The logical steps taken to build a patient decision aid. Steps may include:

- To form groups to develop decision aids (decision experts, patient users, practitioner users);
- To identify the needs of potential users;
- To draft, review, field test, and revise the decision aid;
- To have the decision aid reviewed by outside experts who were not involved in its development and field testing.

How might this affect the quality of decision making? In theory, decision aids may lead to poor decisions if they are developed by people who do not have the knowledge and skills to understand the decision situation and to help patients make decisions. Even qualified people may not design a good decision aid, if they do not take the time to develop it to meet the needs of the patients who face the specific decision and the practitioners who counsel them about the options. Outside experts may also help to identify things that were missed during development.

What is the evidence to support including or excluding this criterion? The Cochrane Collaboration review team examined the way 19 decision aids were developed. Of these, 17 reported the credentials of the developers (e.g. MD, RN, PhD), and 11 reported on the steps taken to develop the decision aid. There were no studies comparing different ways of developing patient decision aids.



Modified Delphi Consensus Voting for developing the IPDAS Checklist

(n=83 criteria from 12 dimensions)

Example of a voting screen for one criterion

1. The patient decision aid presents probabilities using event rates in a defined group of patients for a specified time

How important is this criterion in judging the quality of a decision aid?

1% 0% 1% 1% 3% 6% 15% 20% 54% Equimedian

1 2 3 4 5 6 7 8 9

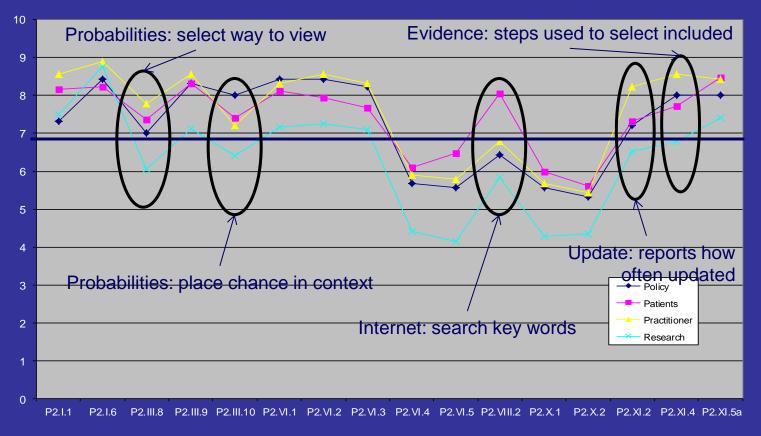
Not important

Very Unable to evaluate



Results

Only 5/16 criteria with differences between stakeholders, had medians that straddled threshold for inclusion





I. Content: Does the patient decision aid ...

IPDAS Checklist

74 items in 11 dimensions checked Yes/No

(based on equimedian rating of 7 to 9 without disagreement)

Table 3. IPDAS Patient Decision Aid Checklist for Users

Provide information about options in sufficient de describe the health condition 2.1 list the options 2.2 list the option of doing nothing 2.3 describe the natural course without options 2.4 describe procedures 2.5 describe positive features [benefits] 2.6 describe negative features of options [harms / side effects / disadvantages] 2.7 include chances of positive / negative outcomes 2.8	tail for decision making? Additional items for tests describe what test is designed to measure 2.9 include chances of true positive, true negative, false positive, false negative test results 2.10 describe possible next steps based on test result 2.11 include chances the disease is found with / without screening 2.12 describe detection / treatment that would never have caused problems if one was not screened 2.13
Present probabilities of outcomes in an unbiased	and understandable way?
$\hfill \square$ use event rates specifying the population and time period $_{3.1}$	 allows the patient to select a way of viewing probabilities [words, numbers, diagrams] 3.8
 compare outcome probabilities using the same denominator, time period, scale 3.2, 3.3, 3.6 	□ allow patient to view probabilities based on their own situation [e.g. age] 3.9
□ describe uncertainty around probabilities 3.4	□ place probabilities in context of other events 3.10

Research



Developing a quality criteria framework for patient decision aids: online international Delphi consensus process

Glyn Elwyn, Annette O'Connor, Dawn Stacey, Robert Volk, Adrian Edwards, Angela Coulter, Richard Thomson, Alexandra Barratt, Michael Barry, Steven Bernstein, Phyllis Butow, Aileen Clarke, Vikki Entwistle, Deb Feldman-Stewart, Margaret Holmes-Rovner, Hilary Llewellyn-Thomas, Nora Moumjid, Al Mulley, Cornelia Ruland, Karen Sepucha, Alan Sykes, Tim Whelan, on behalf of the International Patient Decision Aids Standards (IPDAS) Collaboration

Abstract

Objective To develop a set of quality criteria for patient decision support technologies (decision aids).

Design and setting Two stage web based Delphi process using online rating process to enable international collaboration.

Participants Individuals from four stakeholder groups (researchers, practitioners, patients, policy makers) representing 14 countries reviewed evidence summaries and rated the importance of 80 criteria in 12 quality domains on a 1 to 9 scale. Second round participants received feedback from the

than replace patient-practitioner interaction. They may be leaflets, interactive media, or video or audio tapes. Patients may use them to prepare for talking with a clinician, or a clinician may provide them at the time of a visit to facilitate decision making. At a minimum, patient decision aids provide information about the options and their associated relevant outcomes. These technologies also help patients to personalise this information, to understand that they can be involved in choosing among the various options, to appreciate the scientific uncertainties inherent in that choice, to clarify the personal value or desirability of potential benefits relative to potential harms, to communi-



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Developing the Instrument IPDASi

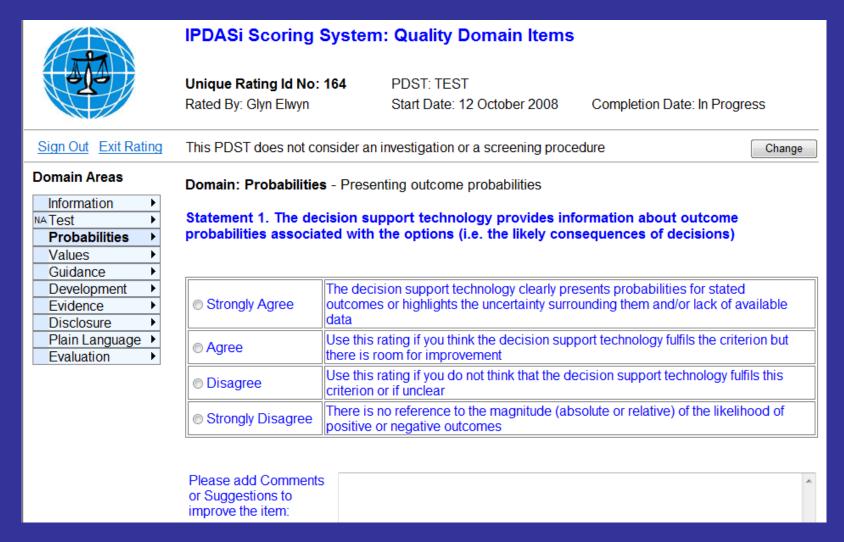
To develop, validate and report the inter-rater reliability of an instrument designed to measure the quality of patient decision support tools

Stage I Refinement and preparation of instrument (version I)

Stage 2 Confirmation of items (version 2)

Stage 3 Validation Study (version 3)

IPDASi uses a 4-point scale with items descriptors (strongly agree to strongly disagree)





IPDASi Validation Study

Methods:

Two trained and calibrated raters independently appraised:

- 15 decision aids from five major producers
 - Healthwise (n=3)
 - Mayo Clinic (n=3)
 - Midwives Information and Resource Service (n=3)
 - Ottawa Patient Decision Aid Research Group (n=3)
 - Informed Medical Decisions Foundation (n=3)
- 15 decision aids randomly selected from Cochrane Inventory

Findings:

After adjusting for hawks/doves IPDASi (47 items)

- 33 to 82 (0-100) averaged scores for decision aids
- 0.80 Intraclass correlation (weighted overall score)
- 0.72-0.93 Cronbach's alpha values for the 8 raters

IPDASi Criteria

IPDASi version	IPDASi v3	IPDASi SF	
# of items	47	19	
Assessors/Raters	Cardiff: MA-D, MS, NJ, SS; North America: SK, ED, AS, MP.	Cardiff: MA-D, MS, NJ, SS; North America: SK, ED, AS, MP.	
# of DSTs evaluated	30	30	
Dimensions			
Information	8	4	
Probabilities	8	3	
Values	4	1	
Decision Guidance	2	-	
Development	6	3	
Evidence	5	2	
Disclosure	2	1	
Plain Language	1	-	
Evaluation	2	2	
Test	9	3	

Elwyn, et al., PLoS One. 2009;4(3):e4705. http://www.ncbi.nlm.nih.gov/pubmed/19259269



Assessing the Quality of Decision Support Technologies Using the International Patient Decision Aid Standards instrument (IPDASi)

Glyn Elwyn¹*, Annette M. O'Connor², Carol Bennett², Robert G. Newcombe¹, Mary Politi⁴, Marie-Anne Durand¹, Elizabeth Drake², Natalie Joseph-Williams¹, Sara Khangura², Anton Saarimaki², Stephanie Sivell¹, Mareike Stiel¹, Steven J. Bernstein⁵, Nananda Col⁶, Angela Coulter⁷, Karen Eden⁸, Martin Härter⁹, Margaret Holmes Rovner¹⁰, Nora Moumjid¹¹, Dawn Stacey³, Richard Thomson¹², Tim Whelan¹³, Trudy van der Weijden¹⁴, Adrian Edwards¹

1 Department of Primary Care and Public Health, School of Medicine and the School of Psychology, Cardiff University, Cardiff, United Kingdom, 2 Ottawa Health Research Institute, University of Ottawa, Ottawa

Abstract

Objectives: To describe the development, validation and inter-rater reliability of an instrument to measure the quality of patient decision support technologies (decision aids).

Design: Scale development study, involving construct, item and scale development, validation and reliability testing.

Setting: There has been increasing use of decision support technologies – adjuncts to the discussions clinicians have with patients about difficult decisions. A global interest in developing these interventions exists among both for-profit and not-for-profit organisations. It is therefore essential to have internationally accepted standards to assess the quality of their development, process, content, potential bias and method of field testing and evaluation.



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Toward Minimum Standards for Certifying Patient Decision Aids: A Modified Delphi Consensus Process

Natalie Joseph-Williams, GDipPsych, Robert Newcombe, PhD, Mary Politi, PhD, Marie-Anne Durand, PhD, Stephanie Sivell, MPhil, Dawn Stacey, PhD, Annette O'Connor, PhD, Robert J. Volk, PhD, Adrian Edwards, PhD, Carol Bennett, MSc, Michael Pignone, MPH, Richard Thomson, MD, Glyn Elwyn, PhD

Process:

- 1. Delphi consensus 2-round voting on: "If the criterion was not present or of low quality, there would be a risk of harmful bias and a potential negative impact on patients' decision making (127 with some patient decision aid experience voted from 16 countries)
- 2. Expert committee considered results from
 - Vote on risk of harmful bias
 - Qualitative comments of voters
 - Original IPDAS rating
 - IPDASi trained raters' comments on feasibility



IPDAS v4.0 Items across the 3 Categories

Dimensions	# of Criteria / Category		
	Qualifying	Certification	Quality
Information	5	1	2
Probabilities			6
Values	1		1
Guidance			2
Development			6
Evidence		4	2
Disclosure		1	1
Plain Language			1
Evaluation			2
Test		4	5
Totals	6	10	28

Joseph-Williams, et al., MDM. 2013 Aug 20. https://www.ncbi.nlm.nih.gov/pubmed/23963501



Summary of qualifying criteria

- describes the health condition or problem
- 2. explicitly states the decision that needs to be considered
- 3. describes the options available
- 4. describes the positive features
- 5. describes the negative features
- 6. describes what it is like to experience the consequences



Summary of certifying criteria

- 1. equal detail for negative and positive features of options
- 2. citations to the evidence
- 3. production or publication date
- 4. update policy
- 5. information about uncertainty around probabilities
- 6. funding source used for development

For screening decision aids

- 7. describes what the test is designed to measure
- 8. next steps after positive test result
- 9. next steps after negative test result
- 10. consequences of detecting a benign condition



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2012 Update of the IPDAS Collaboration Background Document



International Patient Decision Aid Standards (IPDAS)
Collaboration

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Resources

2012 Update of the IPDAS Collaboration Background Document

<u>Introduction</u>

Chapter A: Using a Systematic Development Process

Chapter B: Providing Information About Options

Chapter C: Presenting Probabilities

Chapter D: Clarifying and Expressing Values

Chapter E: Using Personal Stories

Chapter F: Guiding / Coaching in Deliberation and Communication

Chapter G: Disclosing Conflicts of Interest

Chapter H: Delivering Decision Aids on the Internet

Chapter I: Balancing The Presentation of Information and Options

Chapter J: Addressing Health Literacy

Chapter K: Basing Information On Comprehensive, Critically Appraised, And Up-To-Date

Syntheses Of The Scientific Evidence

Chapter L: Establishing the Effectiveness

Implementation of Patient Decision Support Interventions into Routine Clinical Practice: A Systematic Review

2013 Peer-reviewed Publications for IPDAS Collaboration's Quality Dimensions



BMC Medical Informatics and Decision Making 2013, 13(Suppl 2). http://www.biomedcentral.com/bmcmedinformdecismak/supplements/13/S2



Summary of 2013 findings

More emphasis on:

- 1. Quality of the evidence
 - For example, use GRADE
- 2. Disclosures of actual/potential conflict of interest
 - For example, report that no funding to develop or exclusively distribute has been received from commercial for profit entities that sell options in the PtDA



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IPDAS Uptake & Impact

Citations

- 994 IPDAS Checklist (Elwyn et al 2006)
- 241 IPDASi (Elwyn et al 2009)
- 76 IPDAS Minimal Standards (Joseph-Williams et al 2014)
- 78 Ten Years of IPDAS Collaboration (Volk et al 2013)

(Google Scholar August 10, 2017)

Decision Aid Summary









Title	La vasectomie: Est-ce le bon choix pour moi? Un outil d'aide a la decision.		
Audience	Men and couples considering vasectomy.		
Options included	Coitus interruptus. Oral contraceptives.	to Z Decision Aid ventory uses IPDAS p://decisionaid.ohri.ca	
Year of last update or review	2016		
Format	Web, paper, PDF		
How to obtain	Click here to view the decision aid on the acceloper website		
Developer	Michel Labrecque		
Where was it developed?	infovasectomie@videotron.ca University of Laval, Quebec City Canada	Note: The OHRI Patient Decision Aids site is not part of IPDAS. It uses the IPDAS	
Health condition	Birth control	criteria to rate aids listed in	
Type of decision aid	Treatment	the Inventory.	
Language	French		

Based on IPDAS criteria (International Patient Decision Aid Standards) this decision aid (and/or supporting materials) meets:

7 out of 7 criteria to be defined as a patient decision aid

5 out of 9 criteria to lower the risk of making a biased decision





Patient Decision Aid Certification Criteria

Does the patient decision aid adequately:

- Describe the health condition or problem
- 2. Explicitly state the decision under consideration
- Identify the eligible or target audience
- 4. Describe the options available for the decision, including non-treatment
- Describe the positive features of each option (benefits)
- Describe the negative features of each option (harms, side effects, disadvantages)
- Help patients clarify their values for outcomes of options by a) asking patients to consider or rate
 which positive and negative features matter most to them AND/OR b) describing each option to help
 patients imagine the physical, social (e.g. impact on personal, family, or work life), and/or psychological
 effects
- 8. Make it possible to compare features of available options
- 9. Show positive and negative features of options with balanced detail



Proposed certification criteria are based on IPDAS





- In December 2016, the Norwegian Health Directorate used the IPDAS standards to establish a set of quality criteria for approving patients decision aids prior to being added to the Norwegian health platform.
- All Norwegians and health care professionals have access to resources on this health platform.

https://helsedirektoratet.no/nasjonale-kvalitetskrav-til-samvalgsverktoy-som-skal-publiseres-pa-helsenorgeno

ipdas.ohri.ca has >16,000 visitors per year generating 60,000 page views and 42,000 downloads



International Patient Decision Aid Standards (IPDAS)
Collaboration

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What's New

What are Patient Decision Aids?

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The International Patient Decision Aid Standards (IPDAS) Collaboration is a group of researchers, practitioners and stakeholders from around the world that was established in 2003. The IPDAS Collaboration is lead by professors Glyn Elwyn in the United Kingdom and Dawn Stacey in Canada.

What is the purpose?

To enhance the quality and effectiveness of patient decision aids by establishing a shared evidence-informed framework with a set of criteria for improving their content, development, implementation, and evaluation. These criteria are helpful to a wide variety of individuals and organizations that use and/or develop patient decision aids. For example:

- Patients or other individuals who are making a health decision;
- Practitioners guiding patients in making health decisions;
- Developers of patient decision aids;
- Researchers or evaluators of patient decision aids;
- Policy makers or payers of patient decision aids.

Why are standards needed?

There are over 500 patient decision aids available or being developed by many different individuals and groups around the world. However, people have difficulty knowing whether or not a decision aid is a source of reliable health information that can help in decision making.

Website requests:

- Translate IPDAS
- Advice on:
 - developing PtDAs
 - reviewing PtDAs
 - Certifying PtDAs
- Pediatric-specific criteria



For discussion

 What suggestions do you have for new IPDAS initiatives?

How might you want to be involved?