Supplementary Table 1. Number of Participants. Number of People, HTA Units and Countries Participating in the 2 Projects that Piloted the HTA Core Model

Participants	Pilot Core HTAs			
	Drug Eluting	Multislice Computed		
	Stents (DES)	Tomography (MSCT)		
Investigators	39	51		
– HTA units	16	15		
Countries	11	10		
Reviewers	21	28		
HTA units	11	17		
Countries	10	12		

Supplementary Table 2. Topic Selection. Motivations for the Selection of DES and MSCT as the Topics that Pilot the HTA Core Model.

Multislice Computed Tomography (MSCT) in
Coronary Angiography
MSCT has the potential to reduce the
number of invasive coronary angiographies.
As MSCT is a noninvasive technology, there
is a risk that it will be inappropriately used.
 Information on the cost effectiveness of
MSCT compared to other noninvasive
procedures, e.g., MRI would be useful.
There are several safety and patient issues
of relevance, e.g., radiation, contrast agents,
and beta-blockade.

Supplementary Table 3. Validation Feedback: Challenges. Suggested Improvements from the Validation Feedback of the Pilot Core HTAs on Drug Eluting Stents (DES) and Multislice Computed Tomography (MSCT) in Coronary Angiography.

	DES		MSCT	
Structure of	_	Introduction: poor definition of	_	Introduction: comparison of MSCT
the pilot		DES, names of products would		remains unclear.
Core HTA:		be informative, does not specify	_	Feasible but not useful
		the need /motivation, not	-	The appendices should be collected in the
		focused to DES, too short,		end.
		summary of results	_	Accuracy and effectiveness could be
	_	Overlapping identified,		combined
		repetition in text.	_	The structure makes it hard to provide
				state-of art reporting of economic
				evaluation.
			_	Some answers too lengthy: 20 pages
				concluding that there are no problems.
			_	Overlapping
			_	The order of presentation should follow
				the logic of decision maker: first
				description of technology, then legal
				aspects, then accuracy, then safety.
Adequate	_	Many questions are not	_	Suggestion to move budget impact in
research		relevant, at least in the view of		Costs domain.
questions:		the narrow PICO (BMS vs	_	Too many unanswered issues.
		DES).	_	Harmonization needed across domains:
	-	Safety issues were combined		e.g., in Safety domain number of
		with effectiveness.		alternative technologies (such as MPS;
	_	Was it worth the effort? No		MRI, EBCT) are discussed, but

	relevant question, no new	corresponding information is not provided
	knowledge for decision making.	in the Effectiveness and Costs domains.
	 New issues needed in current 	For balanced decision making all
	use: "does the use of this	information would have been needed.
	technology lead to	 There was no issue called "substitute of
	increased/decreased use of	obsolete technology".
	additional/further	
	treatments/examinations?"	
	Psychological and other patient	
	related issues and time of	
	hospitalization should be	
	included,	
	Some issues are very detailed,	
	some very broad and generic	
Adequate	Justification missing why	 Methods are not always reported. One
quality of	certain methods were used.	respondent suggested combining all
data:	 Quality of research missing. 	methods to one appendix.
	 Search strategy missing or 	 Criticism toward study selection in Costs
	defective.	domain: patient in acute care settings.
	Evidence tables missing	 In ethics domain several issues have no
	More detail needed on meta-	evident connection to an ethical analysis.
	analysis methods.	
	 Better referencing needed. 	
Usefulness	Varying opinions.	 Too stiff and complex for many readers,
in local	Answers are too general.	too extensive for decision makers.
decision	 A summary is needed. 	 A summary is needed for the whole report
making:	The question relevant to	(13 of 16 responses). Summary should be
	decision makers should be	placed first.
	made in front and the rest, e.g.,	 Summary needed for each domain too.

in appendix.	_	Better layout needed.
	_	Tool is needed for creating conclusions
		/recommendation (GRADE).

Supplementary Table 4. Domain specific Validation Results. The number of respondents who agreed with the statement divided by the number of all respondents, in the validation of the pilot Core HTAs on drug eluting stents (DES) and multi-slice computed tomography (MSCT) coronary angiography. Poor agreement (<50%) is highlighted.

	Introduction	Methodology	Answers are	Answers are
	section is	section is	produced through	useful as such in
	adequate	adequate	research of	local decision
			adequate quality.	making
Current use				
DES	4/6 (67%)	4/5 (80%)	5/5 (100%)	3/5 (60%)
MSCT	4/7 (57%)	5/7 (61%)	2/7 (29%)	5/7 (71%)
Description				
DES	6/8 (75%)	5/8 (62%)	5/8 (62%)	5/8 (62%)
MSCT	5/7 (71%)	7/7 (100%)	4/7 (57%)	4/7 (57%)
Safety				
DES	_	_	_	_
MSCT	5/8 (62%)	5/8 (62%)	7/8 (87%)	5/7 (71%)
Effectiveness				
DES	5/6 (83%)	5/6 (83%)	6/6 (100%)	5/6 (83%)
MSCT	6/7 (86%)	6/7 (86%)	5/7 (71%)	6/7 (86%)
Accuracy				
MSCT	4/5 (80%)	6/6 (100%)	5/6 (83%)	5/6 (83%)
Costs				
DES	6/8 (75%)	5/8 (62%)	6/8 (75%)	3/8 (37%)
MSCT	3/5 (60%)	4/5 (80%)	3/5 (60%)	0/5 (00%)
Ethical				
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DES	5/7 (71%)	7/7 (100%)	6/7 (86%)	4/7 (57%)
MSCT	5/8 (62%)	6/8 (75%)	4/8 (50%)	7/8 (87%)
Organizational				
DES	8/8 (100%)	8/8 (100%)	5/8 (62%)	5/8 (62%)
MSCT	5/6 (83%)	4/6 (67%)	6/6 (100%)	4/6 (67%)
Social				
DES	4/7 (57%)	6/6 (100%)	3/6 (100%)	4/5 (80%)
MSCT	3/8 (37%)	8/8 (100%)	5/8 (62%)	6/8 (75%)
Legal				
DES	5/6 (83%)	2/6 (33%)	2/5 (40%)	2/5 (40%)
MSCT	7/7 (100%)	7/7 (100%)	5/7 (71%)	1/6 (17%)