Appendix 1. Theoretical Domains Framework definitions for coding

TDF Domain	Description
Knowledge	An awareness of the existence of something
	- Awareness of scientific rationale regarding patients at risk of no
	clinically meaningful improvement from surgery
	- Awareness of own percentage of patients who don't respond
	- Awareness of decision aids to assist in identifying surgical candidates
Skills	An ability or proficiency acquired through practice
	- Ability required/acquired through practice/experience to help decide if
	a patient is likely to benefit from surgery or not
	- Use of tool to assist in identifying suitable candidates for surgery
Social/	A coherent set of behaviours and displayed personal qualities of an individual in a
Professional	social or work setting
role/identity	- Surgeons' expressions about their own professional
, ,	identity/job/role/professional boundaries when managing a person at
	high risk of no clinically meaningful improvement
Beliefs about	Acceptance of the truth, reality or validity about an ability, talent or facility that a
capabilities	person can put to constructive use
	- The surgeon's confidence that they can identify patients at risk of no
	clinically meaningful improvement and can employ the skills needed to
	refuse to operate on the patients
Optimism	The confidence that things will happen for the best, of that desired goals will be
	attained
	- The confidence expressed that a decision aid will reduce the rate of
	surgery in patients at high risk of no clinically meaningful improvement
Beliefs about	Acceptance of the truth, reality or validity about outcomes of a behaviour in a
consequences	given situation
	- Perceptions about outcomes, advantages and disadvantages of using a
	decision aid
	- Any legal or ethical concerns about using a decision aid
Reinforcement	Increasing the probability of a response by arranging a dependent relationship, or
	contingency, between the response and a given stimulus
	- What incentives would influence the surgeon using a decision aid
Intentions	A conscious decision to perform a behaviour or a resolve to act in a certain way
	- Intentions to use a decision aid
Goals	Mental representation of outcomes or end states that an individual wants to
	achieve
Memory, attention	The ability to retain information, focus selectively on aspects of the environment
and decision	and choose between two or more alternatives
processes	- The processes involved and factors taken into account when the
	surgeon makes decisions about whether to operate or not
	- If the surgeon surgical decision making will be influenced by the
	decision aid
	- Surgeon's perceptions of acceptable levels of risk
Environmental	Any circumstance of a person's situation or environment that discourage or
context and	encourage the development of skills and abilities, independence, social
resources	competence and adaptive behaviour
	- Availability of, and confidence in, non-operative alternatives

	- Public versus private differences
	- How a decision aid might best be packaged/implemented
	- Attitudes towards mandating use of a decision aid
	- How surgeons can agree on level of acceptable risk with decision aid
Social influences	Those interpersonal processes that can cause an individual to change their
	thoughts, feelings or behaviours
	- The influences that other surgeons have on surgeon decision to
	operate or not
	- The influences patients have on surgeon decision to operate or not
	- How the surgeon believes patients might respond to the use of a
	decision aid
Emotion	A complex reaction pattern, involving experiential, behavioural and physiological
	elements, by which the individual attempts to deal with a personally significant
	matter or event
	- The emotional responses of the surgeon to using a decision aid
Behavioural	Anything aimed at managing or changing objectively observed or measured
regulation	actions
	- Consistency of decisions to operate or not in patients at high risk of not
	responding
	- Processes that help regulate behaviour