

Multimedia appendix 4: Pool of available Behaviour Change Principles (BCPs) linked to theoretical determinants of condom use

Determinants of condom use	Behaviour Change Principles (BCPs)	
	Behaviour Change Techniques ^a	Behaviour Change Methods
Attitude towards condoms / outcome expectancies	<p>Information about health consequences</p> <p>Information about emotional consequences</p> <p>Information about social and environmental consequences</p> <p>Salience of consequences</p> <p>Pros and cons</p> <p>Framing/re-framing</p> <p>Comparative imagining of future outcomes</p> <p>Incentive (outcome)</p> <p>Reward (outcome)</p>	<p>Classical conditioning</p> <p>Self-re-evaluation</p> <p>Environmental re-evaluation</p> <p>Shifting perspective</p> <p>Arguments</p> <p>Direct experience</p> <p>Elaboration</p> <p>Anticipated regret</p> <p>Repeated exposure</p> <p>Cultural similarity</p>
Perceived norms for condom use	<p>Information about others' approval</p> <p>Social comparison</p>	<p>Information about others' approval</p> <p>Resistance to social pressure</p> <p>Shifting focus</p> <p>Mobilising social support</p>

		Provide opportunities for social comparison
Self-efficacy for condom use (accessing, carrying, negotiating, using)	Set graded tasks Behavioural practice/rehearsal Verbal persuasion about capability Problem solving	Guided practice Enactive mastery experiences Verbal persuasion Improving physical and emotional states Reattribution training Self-monitoring of behaviour Provide contingent rewards Cue altering Public commitment Goal setting Set graded tasks Planning coping responses
Behavioural capability (accessing, carrying, negotiating, using)	Graded tasks Behavioural practice rehearsal Instruction on how to perform the behaviour Habit reversal	As above (self-efficacy)

Resources (accessing & carrying)	Restructuring the physical environment Adding objects to the environment Avoidance/Reducing Exposure to Cues for the Behaviour Prompts/cues Remove aversive stimulus Restructuring the social environment Social support practical	Systems change Participatory problem solving Coercion Advocacy and lobbying Modelling Technical assistance
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^aBCTs where the proportion of experts rating 'definitely yes' is 0.8 or above in expert consensus exercise