

Additional file 5

Associated TDF domains identified in individual study components

Additional file 5.1 – Diagnostic questionnaire, domain scales associated with best practice (p≤0.05)

Record risk (N=60)	K	S	CA	CO	MI	MAD	E	SPI	SI	EM	BR
Primary				✓	✓		✓	✓	✓		✓*
Mixed			✓	✓	✓*		✓	✓	✓		✓*
Adult	✓			✓	✓		✓	✓	✓		✓*
Risk-based recall (N=73)	K	S	CA	CO	MI	MAD	E	SPI	SI	EM	BR
Primary	✓		✓		✓	✓	✓				✓*
Mixed	✓		✓	✓	✓	✓	✓*		✓		
Adult											
Apply fluoride varnish (N=60)	K	S	CA	CO	MI	MAD	E	SPI	SI	EM	BR
Primary	✓			✓				✓	✓*		
Mixed	✓			✓				✓*			
Adult†	✓			✓	✓			✓*	✓		
Place fissure sealants (N=73)	K	S	CA	CO	MI	MAD	E	SPI	SI	EM	BR
Primary†							✓				
Mixed											
Adult†											
Demonstrate OH maint. (N=63)	K	S	CA	CO	MI	MAD	E	SPI	SI	EM	BR
Primary											
Mixed					✓					✓	
Adult					✓				✓*		
Bitewing radiographs (N=63)	K	S	CA	CO	MI	MAD	E	SPI	SI	EM	BR
Primary		✓			✓		✓			✓	
Mixed			✓*	✓	✓*				✓		
Adult									✓		

* Predictive of best practice in logistic regression (p≤0.05)

† No agreed guidance recommendations about best practice

K – knowledge; SPI – social professional role and identity; CA – beliefs about capabilities; CO – beliefs about consequences; MI – motivation, goals, and intent; MAD – memory, attention, and decision making; E – environmental context and resources; SI – social influence; EM – emotion; BR – behavioural regulation

Additional file 5

Associated TDF domains identified in individual study components

Additional file 5.2 – Dental practice case studies, domains associated with PMC behaviours

	K	S	CA	CO	MI	MAD	E	SPI	SI	EM	BR
Record risk	✓		✓	✓*	✓		✓*	✓	✓*		✓
Risk-based recall intervals	✓		✓*	✓*			✓*	✓			✓
Apply fluoride varnish	✓		✓	✓*		✓	✓	✓*	✓*	✓	✓
Place fissure sealants	✓*		✓	✓*	✓			✓	✓*		✓
Demonstrate OH maintenance	✓		✓	✓*			✓*	✓	✓*	✓	✓
Take bitewing radiographs			✓	✓*			✓	✓	✓*		✓*
General preventive care			✓	✓*			✓*	✓	✓*	✓	✓

*Three most frequently coded domains for each behaviour

K – knowledge; SPI – social professional role and identity; CA – beliefs about capabilities; CO – beliefs about consequences; MI – motivation, goals, and intent; MAD – memory, attention, and decision making; E – environmental context and resources; SI – social influence; EM – emotion; BR – behavioural regulation

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Associated TDF domains identified in individual study components

Additional file 5.3 – Patient feedback, domains associated with PMC behaviours

	K	S	CA	CO	MI	MAD	E	SPI	SI	EM	BR
Apply fluoride varnish											
Adult†	✓*										
Child	✓*										
Place fissure sealants											
Adult†											
Child											
Demonstrate OH maintenance											
Adult				✓*							
Child				✓*							
Take bitewing radiographs											
Adult											
Child											
Oral health advice											
Adult			✓*	✓*			✓			✓*	
Child	✓*			✓*			✓			✓*	✓
Oral health maintenance											
Adult	✓		✓*	✓*	✓	✓	✓			✓*	✓
Child	✓		✓*	✓*	✓*		✓			✓	✓

* Three most frequently indexed domains for each behaviour

† No agreed guidance recommendations about best practice

K – knowledge; SPI – social professional role and identity; CA – beliefs about capabilities; CO – beliefs about consequences; MI – motivation, goals, and intent; MAD – memory, attention, and decision making; E – environmental context and resources; SI – social influence; EM – emotion; BR – behavioural regulation

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Associated TDF domains identified in individual study components

Additional file 5.4 – System level informant interviews, behavioural influences on PMC by COM-B

	Scottish Government		Postgraduate dental education		Professional association/Practice		Professional association	
Capability	Facilitator	Barrier	Facilitator	Barrier	Facilitator	Barrier	Facilitator	Barrier
Guidance	✓	✓	✓			✓		
Integrating prevention in Care planning					✓		✓	
Oral health messages					✓			
Audit, Section 63			✓		✓			
Undergraduate training			✓					
Transition from training to								✓
Opportunity	Facilitator	Barrier	Facilitator	Barrier	Facilitator	Barrier	Facilitator	Barrier
Capacity				✓		✓		
Patient context						✓		✓
Environment						✓		✓
Data systems		✓			✓	✓		✓
Oral health initiatives	✓						✓	✓
Targeted fluoride varnish	✓	✓						
Dental care	✓				✓		✓	
Service division				✓		✓		✓
Motivation	Facilitator	Barrier	Facilitator	Barrier	Facilitator	Barrier	Facilitator	Barrier
Remuneration/finances	✓	✓		✓		✓		✓
Caries as priority issue				✓				
Prevention in general		✓			✓	✓		✓