Additional file 6 Salient domains matrix

COM-B		Сара	bilities		Opportunities		Motivation					
	Phy	Psychological			Social	Physical	Reflexive				Auto	
TDF	SK	Knowledge	MAD	Behavioural regulation	Social influence	Environment	Capabilities	Consequences	Social and professional role, identity	МІ	EM	
RECORD RISK Current practice: D: 82% M: 84% A: 48%						S-D,M; CS F – computerized records and recall systems; development and use of custom screens (CS) F – time (S) B/F – practice management (CS) B – record and IT systems (CS)	S-D,M; CS F – capabilities scale (not difficult; confident) (S) B/F – record high risk but not low or moderate risk, know should record all risk levels but don't (CS) B – uncertain in ability to ascribe risk (CS) B – not confident ascribing risk (CS)	S-M; CS F – improves quality of care (S) B – no perceived benefit/point if cannot see pts in <6mo intervals (closely linked to RBR) (CS)				
RISK BASED RECALL Current practice: D: 71% M: 73% A: 62%		Note: Domain excluded as not an intervention target but lack of evidence base cited as key barrier		S-All; CS F – Usually do (S) B/F – most use routine 6 mo recall, unable to tell if risk based or not due to NB (CS)	S-All; CS F – supported by colleagues (S) B – patients suspicious of shorter interval B – patients only presenting in pain/problem (CS)	S-All; CS F – environment scale (sufficient time; is not difficult to schedule) (S) B –only reimbursed for 6mo recall interval (CS) B/F – IT systems (CS)		S-All; CS F – consequences scale (improves quality of care; improves patient OH) (S) F – seeing pts frequently important even if not paid (CS) B – no perceived benefit/point if not paid for <6mo interval in adults (CS)				
APPLY FLUORIDE VARNISH Current practice: D: 81% M: 67% A: 18%		S-All; CS; PFB F – knowledge scale (supported by evidence; advocated in guidance) (S) B – frequency of application (CS) B – patients do not know about FV (PFB)			S-D,A; CS F – social influence scale (supported by colleagues; parents want for children) (S) F – parents/pts request FV (CS) F – Childsmile makes FV more familiar (CS) B – parents/pts do not want (CS) B – do not need to apply FV in GDP as done through Childsmile (CS) B – parents/children do not attend Childsmile sessions, scheduling conflicts (CS)			S-All; CS F – consequences scale (does not have negative consequences; benefits > costs; improves patient OH; prevents caries) (S) F – belief that FC provides protection from decay (CS) F – associated fee (CS) B – perceived benefits insufficient to warrant use (CS)	S-All; CS F – social and professional identity scale (important part of dentist's role; important part of dental team members' roles; dentist's responsibility) (S) B – DCPs trained but do not have opportunity to do (CS)			

Current practice: Guidance recommended behaviours are in **bold**

Abbreviations: **A** – Adult dentition; **B** – Barrier; **BWR** – Bitewing radiographs; **CS** – Case studies; **D** – Deciduous dentition; **DCPs** – Dental care professionals; **DIT** – Data integration team; **DOHM** – Demonstration of oral health maintenance; **EM** – Emotion; **F** – Facilitator; **FS** – Fissure sealants; **FV** – Fluoride varnish; **GDP** – General dental practice; **IT** – Information technology; **M** – Mixed dentition; **MAD** – Memory, attention, decision making; **MI** – Motivation, goals, intent; **OHA** – Oral health advice; **PFB** – Patient feedback; **S** – Survey; **SK** – Skills

Additional file 6 Salient domains matrix

COM-B	Capabilities				Opportunity		Motivation					
	Phy	Phy Psychological			Social Physical		Reflexive					
	SK	Knowledge	MAD	Behavioural regulation	Social influence	Environment	Capabilities	Consequences	Social and professional role, identity	MI	EM	
PLACE PREVENTIVE FISSURE SEALANTS Current practice: D: 16% M: 87% A: 23%					CS F – parents/pts request FS (CS)			CS F – associated fee (CS) F – provide protection (CS) B – concern that FS mask underlying decay (CS)				
DEMONSTRATE OH MAINTENANCE Current practice: D: 87% M: 91% A: 71%					S-A; CS F – social influence scale (supported by colleagues; parents want for children; patients want) (S) F – patients seek, actively request OHA (CS) F – some patients in great need of OHA (CS) B – DOHM, OHA makes patients feel patronized (CS) Note: Patients did not share this concern, typically wanted DOHM/OHA though some older adults did not think would influence their behaviour (PFB)	CS B – takes time which is not included/available as part of routine recall appointments (CS) B – do not have models for demonstration (CS) <i>Note:</i> Best practice recommendation is to demonstrate on patient, not a model		CS; PFB F – effective way to encourage good OH (CS) F – benefits of showing > telling patient (CS, PFB) B/F – benefits for children > adults (CS, PFB)	CS F – DCPs consider part of their role (CS) B – DCPs trained but do not have opportunity to do (CS) B – dentists do not feel is their responsibility (CS)			
BITEWING RADIOGRAPHS Current practice: D: 9% M: 63% A: 93%					S-M,A; CS F – social influences scale (parents want for children; patients want) (S) B – cooperation from children (CS) B – patients find BWR uncomfortable (CS)		S-M; CS B – positioning films, quality of films (DIT) B – difficult to do in children (deciduous dentition/young children hardest) (S, CS)	S-M; CS F – consequences scale (does not have negative consequences for dentist; does not have negative consequences for patients) (S) F – BWR show more than can be seen in clinical exam (CS) B – in children and low risk adults, risk of radiation > benefit of BWR (CS)				

Current practice: Guidance recommended behaviours are in **bold**

Abbreviations: **A** – Adult dentition; **B** – Barrier; **BWR** – Bitewing radiographs; **CS** – Case studies; **D** – Deciduous dentition; **DCPs** – Dental care professionals; **DIT** – Data integration team; **DOHM** – Demonstration of oral health maintenance; **EM** – Emotion; **F** – Facilitator; **FS** – Fissure sealants; **FV** – Fluoride varnish; **GDP** – General dental practice; **IT** – Information technology; **M** – Mixed dentition; **MAD** – Memory, attention, decision making; **MI** – Motivation, goals, intent; **OHA** – Oral health advice; **PFB** – Patient feedback; **S** – Survey; **SK** – Skills

Additional file 6 Salient domains matrix

СОМ-В	Capabilities				Opportunity		Motivation					
	Phy	Ps	Psychological			Physical	Reflexive					
TDF	SK	Knowledge	MAD	Behavioural regulation	Social influence	Environment	Capabilities	Consequences	Social and professional role, identity	MI	EM	
					Social influence CS; PFB F - children especially receptive to advice (CS) F - patients motivated to care for their OH (CS) F - greater awareness in general of OH (CS) F - colleagues, dental team members support preventive care (CS) F - personalized, tailored approach (PFB) F - caring, approachable manner in dentist (PFB) F - dentist's OHA helpful, authoritative (PFB) F - patients assume individual responsibility for OH maintenance; for children joint endeavour with dentist (PFB) B - patient attitudes and beliefs limit receptivity to OHA, preventive care (diet/decay link, whether caries is preventable, prioritizing OH) (CS)	Environment CS; PFB F – customized computer screens (CS) F – sufficient staff (CS) F – sufficient resources (e.g. models, mirrors, printed information) (CS)	CS; PFB-A F – have been trained to give preventive care and advice (CS) F – provide a good service to patients (CS) B/F – more recently trained (often younger) dentists give more preventive care and advice (PFB) B – do not have enough training (CS) B – feel lack		role, identity CS F – my responsibility to deliver general preventive	MI	EM	
					B – older patients are set in their ways (CS, PFB) B – dentists' problem > prevention focus (PFB) Note: Patients giving feedback all had reasonably good oral health maintenance practices. The patient level barriers cited in the CS may be patients with different levels of oral health maintenance.							

Current practice: Guidance recommended behaviours are in **bold**

Abbreviations: **A** – Adult dentition; **B** – Barrier; **BWR** – Bitewing radiographs; **CS** – Case studies; **D** – Deciduous dentition; **DCPs** – Dental care professionals; **DIT** – Data integration team; **DOHM** – Demonstration of oral health maintenance; **EM** – Emotion; **F** – Facilitator; **FS** – Fissure sealants; **FV** – Fluoride varnish; **GDP** – General dental practice; **IT** – Information technology; **M** – Mixed dentition; **MAD** – Memory, attention, decision making; **MI** – Motivation, goals, intent; **OHA** – Oral health advice; **PFB** – Patient feedback; **S** – Survey; **SK** – Skills