

### Additional file 3 – Studies aimed at predicting health professionals’ intentions

Study	1. Type of participants	1. Theoretical framework	Measure of intention	Final model	R <sup>2</sup>
	2. Sample size	2. Behaviour studied	Nb of items (PQ) <sup>a</sup>		
Beatty & Beatty [36]	1. Anaesthetists	1. TPB	1	Attitude	0.45
	2. 114	2. Violating safety guidelines (not performing a pre-operative visit)		Subjective norm PBC Habit	
Bernaix [26]	1. Maternal-newborn nurses	1. TRA	3 (0.93)	Attitude	0.72
	2. 49	2. Support of breastfeeding mothers		Subjective norm Ethnicity Level of education	
Bolman et al. [60]	1. Nurses	1. ASE	1	Perceived complexity	0.38
	2. 85	2. Continuing to use a smoking cessation protocol		Perceived advantages	
Bonnetti et al. [37]	1. General practitioners	1. TPB	3 (0.82)	Attitude	0.31
	2. 214	2. Referring for X-ray		PBC	
Bonnetti et al. [83]	1. General dental	1. OLT	3 (0.73)	Anticipated consequences	0.43

	professionals	2. Taking intra-oral radiographs		Evidence of habit	
	2. 214				
Bunce & Birdi [38]	1a. Lower grade doctors	1. TPB	1	a. Attitude	0.43
	1b. Senior doctors	2. Requesting hospital autopsies		Subjective norm	
				PBC	
	2b. 48			b. Attitude	0.65
	2a. 70			Subjective norm	
				Past behaviour	
Busha [39]	1. Family physicians	1. TPB	1	Subjective norm	0.47
	2. 100	2. Educating about pregnancy prevention (among males 15 years old)		PBC	
				Perceived benefices	
Chau & Hu [40]	1. Physicians	1. TAM	2 (0.77)	Attitude	0.40
	2. 408	2. Using telemedicine technology		Perceived usefulness	
Conner & Heywood-Everett [41]	1. General practitioners	1. TPB	1	Subjective norm (SN)	0.32
	2. 65	2. Addressing mental health problems (Asian patients)		Motivation to comply (MC)	

				Past behaviour	
				SN X MC	
Crawford [61]	1. Critical care nurses 2. 225	1. TPB 2. Involvement with families in the intensive care unit	3 (0.85)	Attitude Subjective norm Internal factors Workload Baccalaureate degree	0.56
Croteau & Vieru [42]	1a. Physicians in urban areas 1b. Physicians in rural areas 2a. 85 2b. 42	1. TAM 2. Telemedicine adoption	4 (-)	a. Perceived ease of use Perceived usefulness Perceived voluntariness b. Perceived usefulness	0.60 0.48
Daneault et al. [84]	1. Nurses & dieticians 2. 151	1. TPB 2. Recommending breastfeeding	2 <sup>b</sup>	PBC Perceived professional norm	0.69
Dilorio [62]	1. Neuroscience nurses 2. 368	1. TPB 2. Care for persons with	11 (0.86)	PBC	0.16

HIV+/AIDS

Eccles et al. [20]	1. General practitioners	1. OLT	3 (0.68)	Anticipated consequences	0.43
	2. 230	2. Managing infections without antibiotics		Habitual behaviour	
Edwards et al. [63]	1. Nurses	1. TPB	3 (0.79)	Attitude	0.40
	2. 446	2. Administering opioids for pain relief		Behavioural beliefs Subjective norm PBC	
Farris & Kirkking [85]	1. Community pharmacists	1. TRA (TT)	2 (0.65)	Social norm	0.17
	2. 169	2. Pharmaceutical care		Frequency of past trying	
Faulker & Biddle [86]	1. Mental health professionals	1. TPB	2 (0.84)	Attitude	0.71
	2. 394	2. Promoting physical activity		Subjective norm PBC Past stage of change	
Feug & Wu [64]	1. Nurses	1. TPB	4 (0.62)	Attitude	0.91
	2. 1362	2. Reporting child abuse (severe cases)		Subjective norm PBC	

				Knowledge	
Fisher & Pathak [43]	1. Physicians 2. 93	1. TRA 2. Using pharmacists as drug information consultants	1	Attitude	0.23
Foy et al. [87]	1. Mental health professionals 2. 373	1. TPB 2. Disclosing a diagnostic of dementia (Exploring what patients already knows)	2 (0.85)	Attitude Emotional attitude Subjective norm PBC	0.29
Foy et al. [44]	1. Gynaecologists 2. 151	1. TPB 2. Guideline compliance (Assessing an appointment within 5 days of referral)	3 (>0.70)	Subjective norm	0.27
Gagnon et al. [46]	1. General practitioners 2. 519	1. TIB 2. Acceptance of telemedicine	3 (0.84)	Normative factors Self identity	0.81
Gagnon et al. [45]	1a. Ophthalmologists 1b. Orthopaedic surgeons	1. TIB 2. Using the Health Technology Assessment recommendations	3 (0.85)	a. Attitudinal beliefs Personal normative beliefs	0.87

	2a. 35			Social normative beliefs	0.65
	2b. 61			b. Facilitating conditions	
				Personal normative beliefs	
				Habit	
Gaither et al. [47]	1. Physicians	1. TRA	1	Attitude	0.14
	2. 87	2. Utilization of drug information sources (physicians, colleagues)			
Gilomen-Study [21]	1. Physicians	1. TPB	1	Attitude	0.59
	2. 45	2. Prescribing			
Godin et al. [48]	1a. General practitioners	1. TPB	2 <sup>c</sup>	a. Attitude	0.83
	1b. Residents	2. Recommending complementary and alternative medicine		PBC	
	2a. 201			Moral norm	
	2b. 144			Descriptive norm	
				b. Attitude	0.66
				PBC	
				Moral norm	

Godin et al. [49]	1. Physicians 2. 852	1. TPB 2. Examining an HIV+/AIDS patient	1	Attitude Perceived norm Self-efficacy Tests Sex X age Risk X attitude	0.50
Godin et al.[95]	1. Dentists 2. 771	1. TPB 2. Providing dental care to HIV+/AIDS patients	2 (0.90)	PBC Personal normative beliefs Habit	0.71
Godin et al. [50]	1. Physicians 2. 667	1. TPB 2. Wearing gloves	1	Attitude PBC Perceived social norm Perceived risk Habit Age	O/S
Godin et al. [27]	1. Nurses	1. TPB	4 (0.82)	Barriers	0.68

	2. 156	2. Adherence to universal precautions for venipuncture		Subjective norm Personal normative beliefs	
Herbert & Benbasat [65]	1. Nurses	1. TRA	4 (-)	Relative advantages	0.77
	2. 151	2. Adoption of information technology		Result demonstrability Compatibility Normative beliefs	
Herbert et al. [88]	1. Pharmacists	1. TPB	6 (0.88)	Attitude	0.63
	2. 203	2. Providing therapy management services		Subjective norm PBC	
Hoppe [31]	1. Nurses	1. TPB	6 (0.94)	Attitude	0.60
	2. 102	2. Obesity management		Subjective norm Self-efficacy Self-identity Past behaviour	
Hu et al. [51]	1. Physicians	1. TAM	6 (0.86)	Attitude	0.44
	2. 408	2. Adoption of telemedicine		Perceived usefulness	
Jenner et al. [89]	1. Health professionals	1. TPB	4 (0.78)	Attitude	O/S



	2. 100	2. Hand hygiene practice		Personal responsibility	
Jones et al. [52]	1. Oncologists	1. TPB	1	Attitude	0.22
	2. 281	2. Recommending to exercise		Subjective norm	
				PBC	
Jurgens [66]	1. Nurses	1. TPB	2 (0.69)	Attitude	0.63
	2. 149	2. administering morphine for postoperative pain		PBC	
				Control beliefs	
Kittisopee [90]	1. Pharmacists	1. TPB	3 (0.76)	Attitude	0.78
	2. 269	2. Pharmaceutical care		Subjective norm	
				PBC	
				Agreeableness	
Klaybor [91]	1. Social workers	1. TPB	2 (-)	Attitude	0.25
	2. 249	2. Using the DSM-IV for treatment planning		Norm	
				PBC	
Lambert et al. [23]	1. Physicians	1. TRA	-	Attitude	0.62
	2. 19	2. Prescribing		Subjective norm	
Laschinger &	1. Nurses	1. TRA	1	Attitude	0.19

Goldenberg [67]	2. 141	2. Care for HIV+ patients			
Laschinger et al. [68]	1. Community health nurses	1. TRA	1	Attitude	0.19
	2. 145	2. Care for HIV+ patients			
Lavoie et al. [69]	1. Nurses	1. TPB	4 (0.82)	Attitude (cognitive)	0.86
	2. 119	2. Selecting a given level of care		Perceived professional norm Living will	
Légaré et al. [53]	1a. General practitioners (France)	1. TPB	2 (0.84) <sup>d</sup>	a. Role beliefs	O/S
	1b. Gynaecologists (France)	2. Prescribing hormone replacement therapy		PBC	
	1c. General practitioners (Québec)			Control beliefs	
	1d. Gynaecologists (Québec)			Cessation of menses	
	2a. 419			b. Role beliefs	
	2b. 577			Moral norm	
	2c. 333			Control beliefs	
				Lipid profile	
				c. Moral norm	
				Control beliefs	

	2d. 129			Cytology	
				Hormonal dosage	
				d. Moral norm	
				Control beliefs	
Légaré et al. [54]	1. Physicians and residents 2. 121	1. TPB 2. Screening for decisional conflict	3 (0.79)	Attitude Subjective norm PBC Clinical site	0.70
Levin et al. [92]	1. Nurses & medical laboratory workers 2. 527	1. TPB 2. Wearing gloves	1	Attitude PBC Perceived risk	0.73
Liabsuetrakul et al. [55]	1. Obstetricians 2. 50	1. TPB 2. Administration of antibiotic after cord clamping	- <sup>e</sup>	Subjective norm	0.25
Limbert & Lamb [56]	1a. Hospital doctors 1b. Hospital doctors	1. TPB 2a. Compliance with asthma guidelines	a.1 b. 3 (-)	a. Attitude Subjective norm PBC	0.58

	2a. 223	2b. Compliance with antibiotic		b. Attitude	0.52
	2b. 214	guidelines		Subjective norm	
				PBC	
Maue et al. [24]	1. Physicians & nurse practitioners	1. TPB	2 (>0.60)	Attitude	0.68
	2. 60	2. Compliance with guidelines		PBC	
				Level of difficulty	
McKinlay et al. [70]	1. Nurses	1. TRA	2 (-)	Attitude	0.66
	2. 74	2. Care of self-poisoning patients		Subjective norm	
Milstein [25]	1. Primary care physicians	1. TPB	1	Attitude	0.27
	2. 765	2. Providing education about STD-HIV		Social norm	
				PBC	
Nash et al. [71]	1. Nurses	1. TRA	2 (-)	PBC	0.21
	2. 100	2. Pain assessment			
O'Boyle et al. [28]	1. Nurses	1. TPB	5 (0.74)	Subjective norm	0.56
	2. 120	2. Adherence to hand hygiene recommendations		Control beliefs	
Payant [72]	1. Nurses	1. TPB	3 (0.91)	Subjective norm	0.55

	2. 97	2. Providing continuous labour support		PBC	
				Labour support courses	
Pessoa-silva et al. [93]	1. Healthcare workers	1. TPB	12 (0.81)	Perceived difficulties	O/S
	2. 61	2. Hand hygiene		Subjective norm	
Puffer & Rashidian [73]	1. Nurses	1. TPB	2 (0.62)	Attitude	0.40
	2. 48	2. Using clinical guidelines		PBC	
Renfroe et al. [29]	1. Nurses	1. TRA	2 (-)	Attitude	0.46
	2. 108	2. Documentation		Subjective norm	
Ryu et al. [57]	2. Physicians	1. TPB	5 (0.91)	Attitude	O/S
	3. 286	2. Knowledge sharing		Subjective norm	
				PBC	
Sable et al. [58]	1. Primary care physicians	1. TRA	5 (-)	Attitude	N/A
	2. 96	2. Prescribing		Subjective norm	
Sauls [30]	1. Intrapartum nurses	1. TPB	27 (-)	Attitude	0.67
	2. 39	2. Providing labour support		Subjective norm	
Schottle [74]	1. Obstetrical nurses	1. TPB	1	Attitude	0.52

	2. 26	2. Collaborating with midwives		Subjective norm	
Tessaro & Highriter [75]	1. Nurses	1. TRA	4 (0.86)	Attitude	N/A
	2. 311	2. Working with HIV+/AIDS patients		Subjective norm	
				Prior behaviour	
				Ever cared for patients with HIV/AIDS patients	
				Number of years in public health	
				Supervisory position	
Vermette & Godin [76]	1. Nurses	1. TPB	3 (0.83)	Attitude	0.48
	2. 102	2. Providing care at home to AIDS or leukaemia patients		Personal normative beliefs	
				PBC	
				Homophobia	
Walker et al. [59]	1. General practitioners	1. TPB	1	PBC	0.62
	2. 126	2. Prescribing		Control beliefs	
				Past behaviour	
Walker et al. [94]	1. Community pharmacists	1. TPB	2 (0.85)	Attitude	0.14

	2. 76	2. Treatment of vaginal candidiasis with non-prescription medicines			
Wallace et al. [77]	1. Nurses	1. TRA	4 (0.72)	Attitude	0.39
	2. 85	2. Providing oral care to patients receiving chemotherapy		Subjective norm	
Walsh et al. [78]	1. Pediatric nurses	1. TPB	2 (0.73)	Beliefs-based attitude	0.25
	2. 51	2. Fever management		Subjective norm	
				Indirect control	
Waltman & Corless [79]	1. Nurses	1. TRA	12 (-)	Attitude	0.72
	2. 372	2. Care of the dying		Normative beliefs	
Watson & Myers [80]	1. Nurses	1. TPB	3 (0.75)	Attitude	0.45
	2. 103	2. Clinical glove use		PBC	
				Barriers	
Werner & Mendelsson [81]	1. Nurses	1. TRA	4 (0.70)	Attitude	0.48
	2. 303	2. Using physical restraints with older people		Subjective norm	
				Perceived moral obligation	

Whitby et al. [82]	1. Nurses	1. TPB	-	Attitude	0.64
	2. 754	2. Elective in-hospital hand washing		Subjective norm Perceived peer behaviour Effort required Elective community behaviour	
Wilson [35]	1. School psychologists	1. TPB	10 (0.93)	Attitude	0.46
	2. 284	2. Using a consultation model		Subjective norm PBC	

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ASE: Attitude, Social and Self-Efficacy Model; N/A: Not available; PBC: Perceived behavioral control; PQ: Psychometric qualities; OLT: Operant Learning Theory; O/S: Other statistics; SCT: Social Cognitive Theory; TAM: Technology Acceptance Model; TIB: Theory of Interpersonal Behaviour; TPB: Theory of Planned Behaviour; TRA: Theory of Reasoned Action; TT: Theory of Trying.

<sup>a</sup> Cronbach's Alpha coefficient ( $\alpha$ )

<sup>b</sup> Alpha coefficients were considered sufficient for all variables including intention

<sup>c</sup>  $\alpha$  (0.77 à 0.88) or r (0.55 à .71) for all constructs including intention

<sup>d</sup> Pearson correlation coefficient



<sup>e</sup> Alpha coefficients ranged from 0.64 to 0.85 for all variables including intention