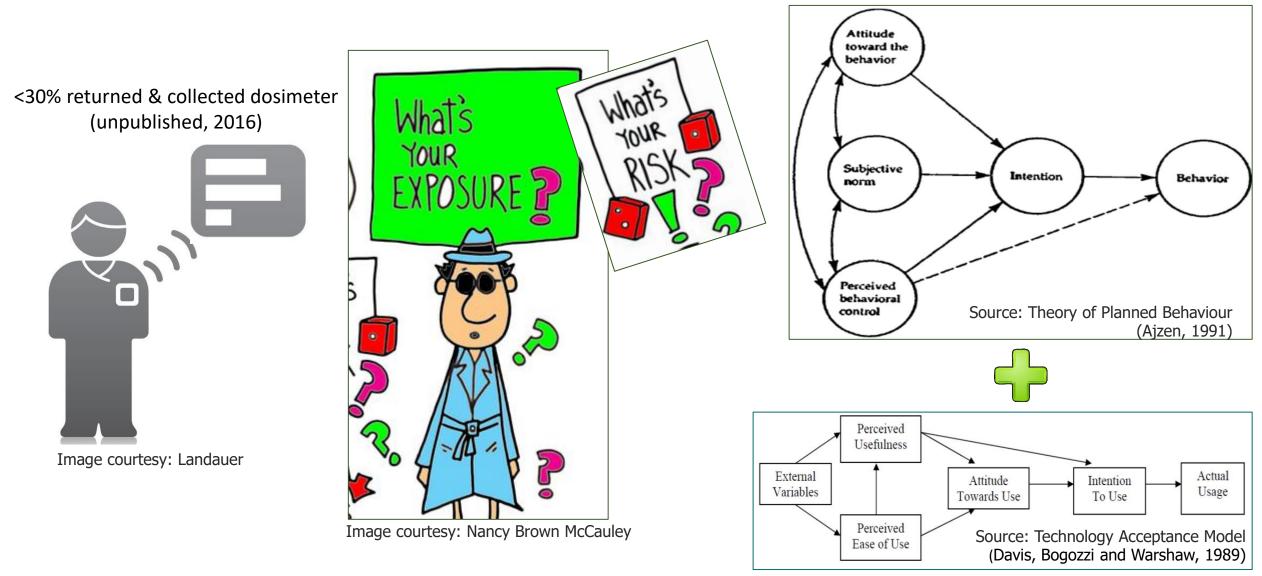
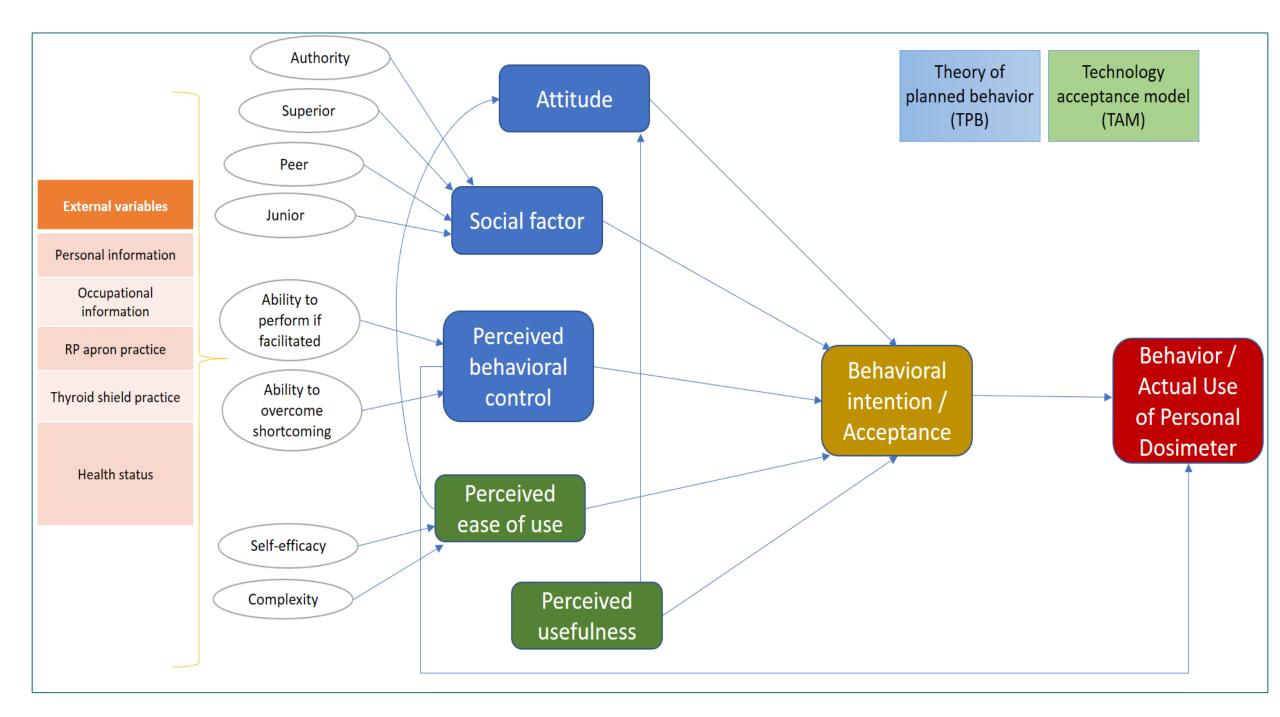
Development and validation of a web-based survey to asses medical radiation workers' behaviour of using personal dosimeter for occupational radiation monitoring





The integration of **TPB** and **TAM** constructs was found to be **reliable** and **valid** to explain the **use** of personal **dosimeter** among MRWs **Domains**: Social factor, Usefulness, Facilitator, Barrier, Self-efficacy, Complexity & Attitude

Item			ltem umber	I-CVI	Expe comment/	ert's suggestion	Amendment status for item	Final arrangement of item						
will definitely	my immediat	e supervisor	SF1	0.83	-	-	Accepted	SF1						
use a dosimeter during work, in	an officer/ charge	+ Table 3. Exploratory	Table 3. Exploratory factor analysis for items in the survey to assess the behaviour of using personal dosimeter for radiation monitoring											
the presence of	my colleag	Original domain Domain after EFA Item Cronbach's Alpha for each domain							1	2		actor 4	=	67
	interns/pra													.805.694
	my supervi	Social Factor Social Factor intern/practical students						.900		.050	.0.57	.039	.00.3.09	
	an auditor	(n=6)	(n=6)	actor		supervisee	51115		.940		-	-	-	
DIMENSION/CONSTRUCT: P		(ii-0)	(11-0)		-	•	physicist in charge		937	_	_	_	_	
						colleagues	physicist in charge		.929	-	-	-	-	
ltem						immediate super	visor		.926		-	-	-	
						uditor			.858	-	-	-	-	
or me, to use a Iosimeter at work		Perceived Usefulness (n=4)	Perceiv (n=4)	ed Usefulness		detection of un tice/procedure a		od to investigate any faulty	-	.903	-	-	-	
is	Impossible				Usi	ng a dosimeter e	nables me to detect unusu	al over-exposure at work	-	.835	-	-	-	
	Impossible							e in working safely at work	-	.821	-	-	-	
					Usi	ng a dosimeter e	nables me to keep track of	f my monthly dose exposur	e -	.786	-	-	-	
t is mostly up to		Perceived Behavioura Control (n=10)	l Ability (n=4)	to perform if faci	litated it ha	as a more robust	clip		-	-	.856	-	-	
me whether or						waterproof			-	-	.832		-	
not I use a	Strongly ag						of the result every month	n without fail	-	-	.808		-	
dosimeter at work					som	eone is supervis	ing the use of it		-	-	.723	-	-	
am certain that I could use a	it has a mo easily drop		~	to overcome mings (n=3)		-	ver-exposure procedures		-	-	-	-	-	780
dosimeter	it is waterp						layed monitoring result		-	-	-	-	-	775
consistently if	<u> </u>						work for over-exposure		-	-	-	-	-	763
		Perceived Ease of Us		ficacy		lose my dosimet			-		-			
		(n=6)	(n=3)				ectly (position and directi		-					
	its size is re						osimeter every day at wo	rk	-	-	-	.822	-	
			Comple	exity		a effort			-					.877 -
			(n=3)			ng willingness								.825 -
						a time								.804 -
		Attitude	Attitude	e		urbing during w	ork		-	-	-			
		(n=5)	(n=3)			omfortable			-	-	-			
		Extraction Method: P				icult to practice			-	-	-	-	.766	



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