

• S/10/252 & S/14/719

Response magazine. Cardiac care(photo) 2009;36(4):43

# Methodology - Philosophical Approach The question

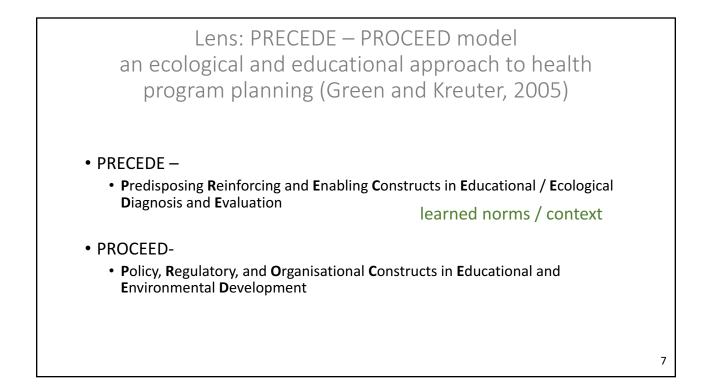
What are the behaviours, knowledge and perceptions of Australian paramedics in relation to infection control practices in paramedic-led healthcare, and how do these relate to a paramedic's experience and formal education?



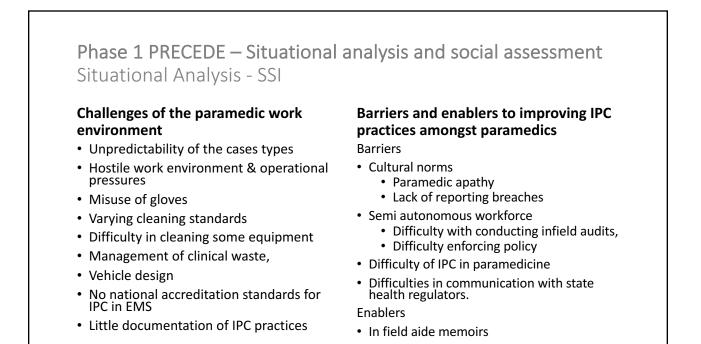
Hosted by Jane Barnett jane@webbertraining.com www.webbertraining.com Δ

Document	Four jurisdictions from the 8 CAA members
analysis	NHMRC (2010) Australian Guidelines for the Prevention and Control of
	Infection in Healthcare. Commonwealth of Australia.
Semi- structured	14 experts interviewed - 10 Male & 4 Female
interviews	ambulance managers (n=5), public health specialists (n=3), infection control practitioners (n=4) and university academics (n=2)
SoPIC	Paramedic PA members – convenience sample, open 1 month, 4 reminders
	823 incomplete surveys, 417 surveys analysed (17% response rate)
Focus groups	Held prior to CPD events
	FG1 included 1 male and 5 females, FG2 included 5 males and 1 female

Global results – SoPIC	participants	
Characteristic	Value	
Age median group	35 to 44 years	
Gender	291M & 126F	
Clinical practice level	Range PTO – paramedic – ICP - retrieval	
Paramedic training type	Post employment 75%	
Highest level of education	30% diploma, 35% degree, 35% post grad	
Other health discipline	18.9% Nursing	
Years post qualification	54% 1-10, 31% 11-20, 15% > 20	
State or territory	All – range 3.1% to 26.1%	e



Literature review	1. A discipline in transition
	<ol><li>Education models moving to a pre- employment training</li></ol>
	3. Rapid expansion in their scope of practice
	4. DoHA rescinded $ ightarrow$ NHMRC late 2010
	5. ACSQIHC standards 2013

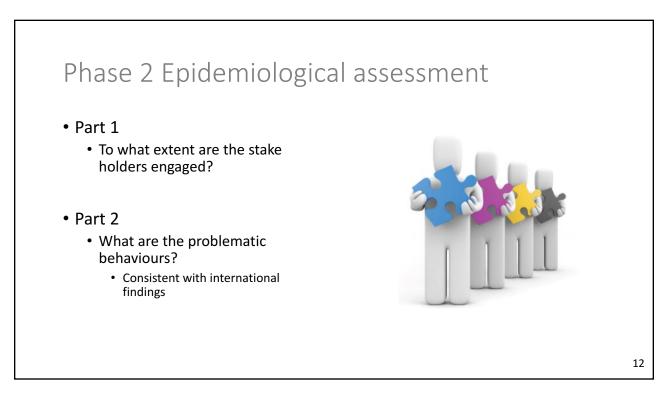


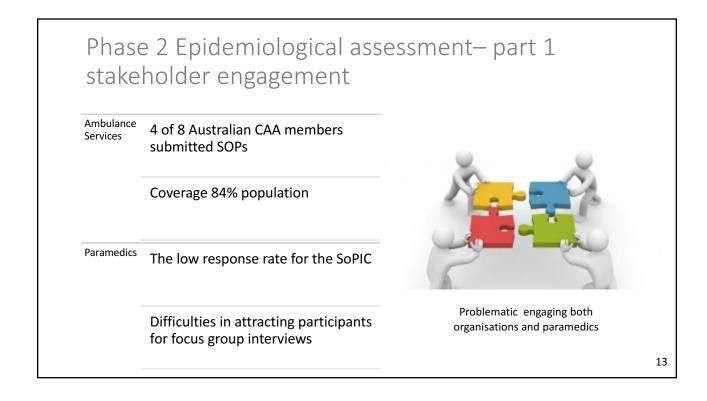
Phase 1 Pl Social Asse	RECEDE – Situational analysis and social assessment essment					
Social diagnosis	Views the individual's perceptions in the context of the culture of the group					
The	Felt confident with their IPC practices					
paramedic participants	Perceived IPC as being important					
participarits	Perceived that IPC was undervalued by peers and managers.					
	Described perceived barriers to the application of IPC in the field*					
	Unlikely to report breaches	10				

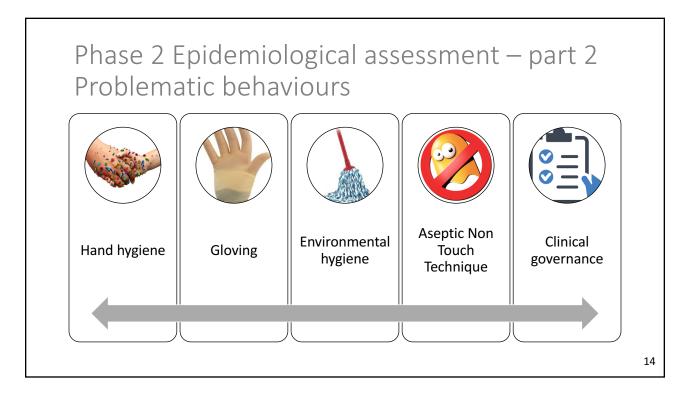
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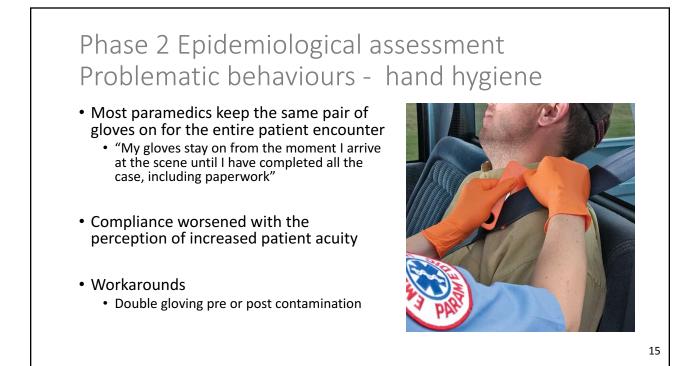
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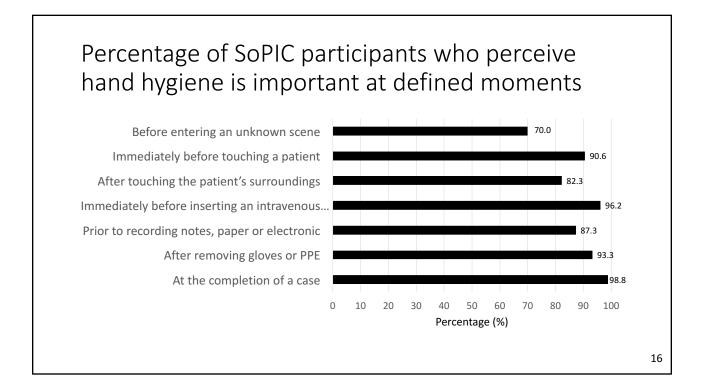
Phase 1 PRECEDE – Situational analysis and social assessment Social Assessment - Perceived Barriers to IPC							
Perceived Barrier	HH+G	EH	CG	ANTT	SSI		
Insufficient time (operational pressure & scene time limits)	х	х	х	х	х		
Cultural norms and attitudes	x	x	х		x		
Access to products	x	х		x			
Appropriateness of products	x	х	х				
Difficulty	x	х		x			
Training	х	х	х	х	x		
Knowledge		х					
Challenging environment	x			Х	х		

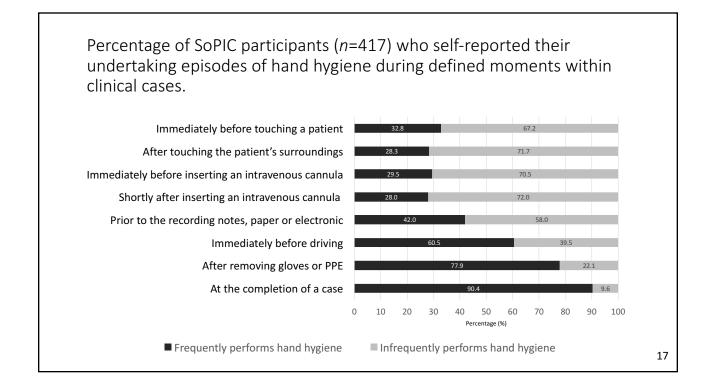






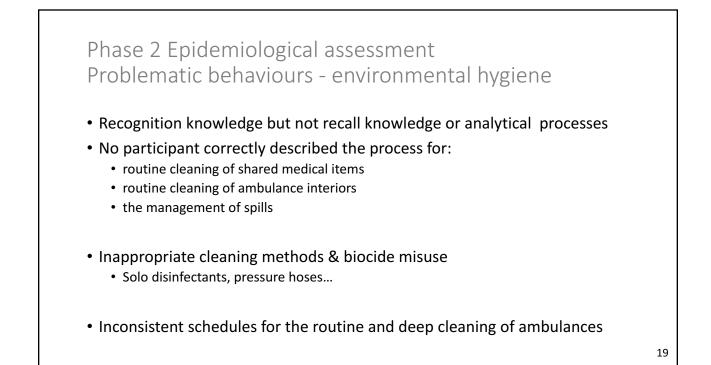






Associations between demographic variables and those who reported performing hand hygiene before IV insertion (29.5% of SoPIC participants) behaviours using Pearson Chi squared tests and Logistic regression (binary logistic model) to adjust P value using all demographic variables in the table.

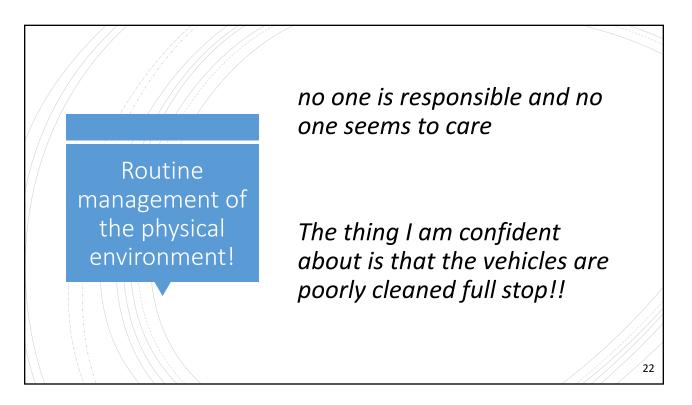
Variables of interest	category	%	Percentage of demographic who frequently perform hand hygiene before IV insertion (%)	raw P / adjusted P <sup>1</sup> value	
Gender (n=417)*	Male	69.8	29.2	P = 0.845 / <b>0.031</b>	
	Female	30.2	30.2	F = 0.843 / 0.031	
	Paramedic (n=208)	49.9	26.9		
Clinical practice level (n=377) <sup>2</sup>	ICP (n=118)	28.3	22.9	P = 0.048 / 0.220	
	RP/GCP (n=51)	12.2	41.2	P = 0.048 / 0.220	
	Excluded (n=40)	9.6			
Competency based training for standard	Yes (n= 295)	70.1	34.2	P = 0.001 / <b>0.002</b>	
precautions (n=417)*	No (n= 122)	29.1	18.0	P = 0.001 / <b>0.002</b>	
Turining (m. 647)	Pre-employment (n=106)	25.4	24.5	D 0 104 / 0 000	
Training type (n=417)	Post-employment (n=311)	74.6	31.2	P= 0.194 / 0.880	
	Certificate or diploma (n= 122)	30.0	38.5		
Highest level of education (n=417)	Bachelor degree (n= 143)	35.2	25.2	P = 0.026 / 0.070	
	Post graduate study (n= 142)	34.8	25.4		
	Paramedic only (n= 308)	79.0	25.0	D 0.001./	
Health training (n=387) <sup>3*</sup>	Paramedic & nursing (n=79)	18.9	45.6	P = 0.001 /	
	Excluded (n=30)	2.1		<0.001	
	1 -10 years (n=194)	46.5	25.8		
Time post qualification (n=417)*	11 - 20 years (n=128)	30.7	25.8	P = 0.009 / 0.006	
	≥ 20 years (n=95)	22.8	42.1		
State or territory*	Range	3 – 26	8.0 - 46.8	P = 0.002 / <b>0.008</b>	

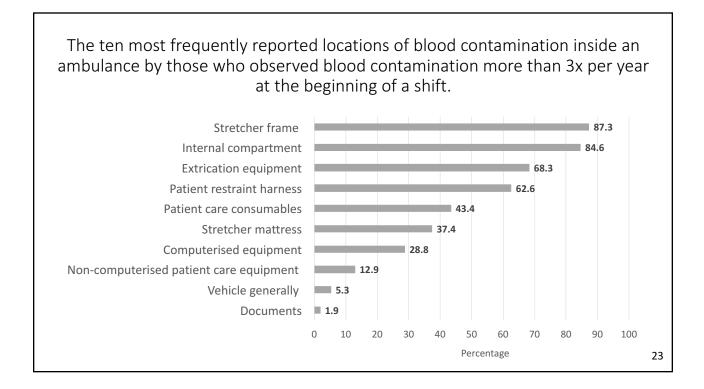


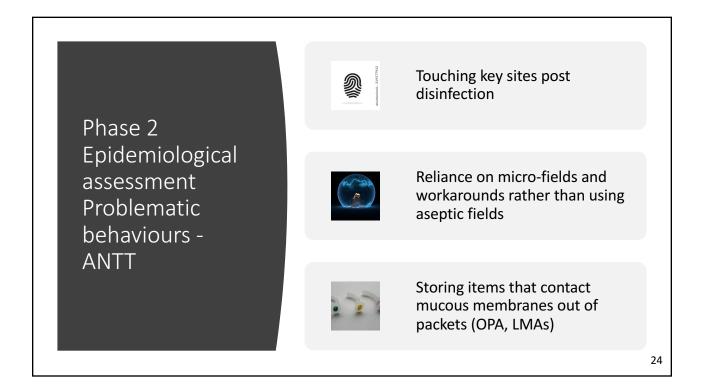
# The frequency of responses aligning to NHMRC advice and the percentage of omitted areas in responses

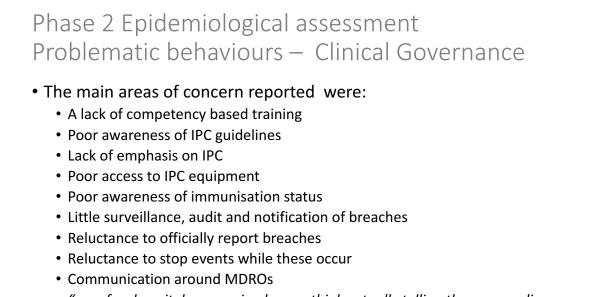
Task and number of responses	er of Comment alignment with NHMRC advice (%)				Comments with omitted steps in responses (%)				
Spills management	Met	Mostly met	Not met	PPE	Remove spill	Deterg	Disinfect	Hand hygiene	
Small (n=330)	0.0	11.8	88.2	95.5	60.0	50.6	21.2	100.0	
Large (n=353)	0.0	3.7#	96.3	95.8	98.3 <sup>*</sup>	52.7	39.4	100.0	

Task and number of responsesComment alignment with NHMRC advice (%)Comments with omitted steps in responses					nses (%)			
Cleaning non critical items	Met	Mostly met	Not met	PPE	Remove soiling	Deterg	Disinfectio n	Hand hygiene
Small items (n=372)	0.0	9.7	90.3	98.7	21.8	46.0	19.1	100.0
Large items <sup>#</sup> (n-360)	0.0	16.1	83.9	99.2	23.6	47.2	22.2	100.0
Response bags <sup>@</sup> (n=339)	0.0	6.8	93.2	99.7	30.1	51.9	33.9	100.0



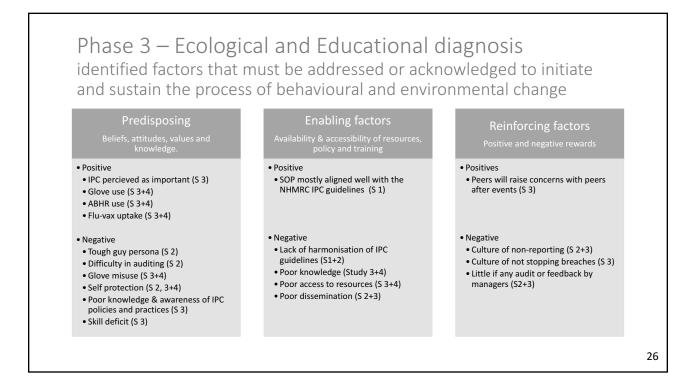


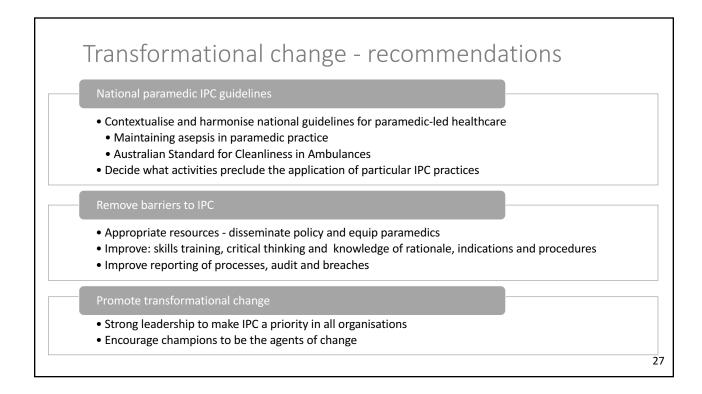




• "very few hospitals or nursing homes think actually telling the paramedics that the pt. has these infections is in anyway important."

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W	ww.webbertraining.com/schedulep1.php
October 24, 2019	INFECTION CONTROL ISSUES IN HEALTHCARE CONSTRUCTION, PART 2 – NEW BUILDS Speaker: Andrew Streifel, University of Minnesota
November 7, 2019	HEALTHCARE-ASSOCIATED PNEUMONIA THAT IS NOT VENTILATOR- ASSOCIATED: BIG PROBLEM, BUT GUIDELINE-FREE ZONE Speaker: Martin Kiernan, University of West London
November 12, 2019	(FREE European Teleclass) THE ROLE OF CLEANERS IN INFECTION PREVENTION - NEGLECTED FRONT LINE WORKERS IN HEALTHCARE FACILITIES Speaker: Prof. Wendy Graham, London School of Hygiene & Tropical Medicine, and Claire Kilpatrick, The Soapbox Collaborative Sponsored by the World Surgical Infection Society

