## Improving Pre-hospital Infection Control in the ACT

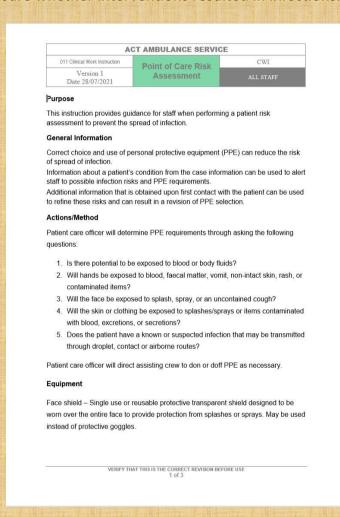
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## Introduction:

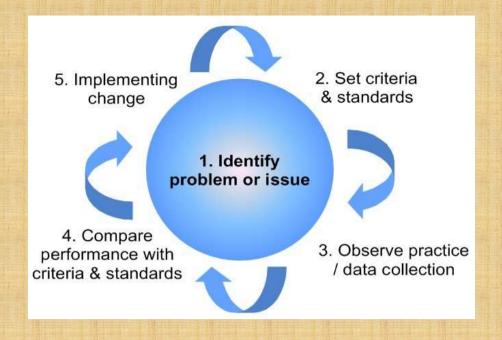
Within the Australian Capital Territory Ambulance Service (ACTAS) the infection control performance of paramedics and monitoring of their practices in the pre-hospital setting is constrained by the lack of appropriate resources, paramedic knowledge and understanding, social pressures, and the care requirements of patient presentations. For the paramedic patient interventions often occur outside of the ambulance in uncontrolled environments. Compliance measuring and monitoring is very difficult owing to the diversity of situations where patient contact occurs. There is also a lack of effective ways to measure whether interventions resulted in infections.



## Findings:

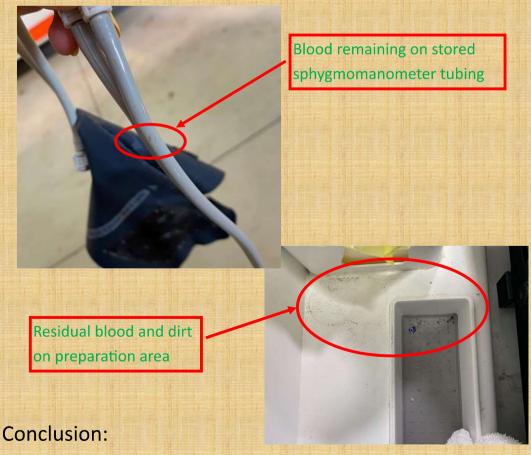
- IP&C policy and CWIs were well received by paramedics.
- Recognition that vehicle cleaning required additional resources.
- Accessibility to CWIs was hindered by the lack of a suitable electronic platform.
- The audit demonstrated inconsistent retention of PPE, cleaning equipment and hand sanitiser across the fleet.
- Fleet cleaning was not performed consistently.
- Introduction of personal carry hand hygiene products was readily accepted.

Evidence	that crews have had training in i Hand hygiene	nrection prevention ar	na contro	procedures (% compliance):
	Standard and Transmission Based Precautions			
	Ambulance cleaning			
-	PPE Selection Donning Doffing			
0	Aseptic technique			
6	Number of BBFE in previous year			
	realises of our can previous year			
	Ambulance No.: Location (Station):		Date: _/_/_ Weeks in location:	
		Assigned crew:  Element to be Assessed		Second uniform availability Findings
spected				Findings
	No. checklist completions in previous week			
-	No. days and nights vehicle in use in previous week			
	No. crews assigned in previous week			
	Date of last Deep Clean:// Check cab		/alass**	ness, no residues)
П	Vehicle controls	(clean, no residues)	(cleanling	ness, no residues)
	MDT screen	(clean, no residues)	□ Yes	□ No
-	MDT screen Seatbelts (incl. clasp buttons)	(clean, no residues) (clean, no residues)		□ No
-	Radios	(clean, no residues)	☐ Yes	□ No
	Door handles (int/external)	(clean, no residues)	☐ Yes	□ No
-	Hand hygiene	accessible	□Yes	□ No
ш	Check patient compartment ar		□Yes	LI No
	Gloves (4 sizes)	available	□Yes	□No
	Gowns	available	□ Yes	□No
-	N95 Respirators	available	□Yes	□No
	Surgical masks	available	□Yes	□No
	Goggles and face shields	available	□Yes	□No
- i	Consumables	in date	□Yes	□No
	Consumables	within stock levels	□Yes	□No
	Railings	(clean, no residues)	□Yes	□No
	Monitor carry handle	(clean, no residues)	□Yes	□No
П	Monitor cables (BP cuff, cables	(clean, no residues)	□Yes	□No
	Assessment equipment	(clean, no residues)	□Yes	□No
	Work benches	(clean, no residues)	□Yes	□No
	Treat seat (including seatbelt)	(clean, no residues)	□Yes	□No
	Wall suction	(clean, no residues)	□Yes	□No
	Sharps container	(below fill line)	□Yes	□No
	Stretcher surfaces	(clean, no residues)	□Yes	□No
	Stretcher seatbelts	(clean, no residues)	□Yes	□No
	Cupboard/Drawer handles	(clean, no residues)	□Yes	□No
	Hand hygiene	accessible	□Yes	□No
	Check of Routine Cleaning (	Daily)		
	Interior surfaces incl. ceiling	(clean, no residues)	□Yes	□No
	interior windows	(clean, no residues)	□Yes	□No
	cab floor	(clean, no residues)	☐ Yes	□No
	patient compartment floor	(clean, no residues)	□Yes	□No



## Process:

An observational audit of infection control policy, procedures and practices was performed. Adoption of an overriding Infection Prevention and Control (IP&C) policy was required so that governance could be clearly defined. A suite of Clinical Work Instructions (CWIs) was developed that aligned with the National Safety and Quality Health Service Standards and Australian Guidelines for the Prevention and Control of Infections in Healthcare (2019). Each CWI was written and formatted in a simple style that was more easily compatible with electronic access platforms. The audit included the provision and use of personal protective equipment (PPE), hand hygiene products and cleaning supplies . A trial of different styles of hand hygiene product was undertaken to gauge acceptability and applicability amongst paramedics.



- Paramedics are aware structural issues inhibit their practices.
- Development of a checklist and an audit tool will allow enhanced auditing.
- ACTAS is now committed to improving fleet cleaning.
- Improvements to the electronic platforms used for communication with paramedics are essential to enhance access to accurate and up-to-date information concerning IP&C.
- Investments in these areas, however, must be matched with a determination to measure compliance