Contact Precautions as a Barrier to Hand Hygiene: PDSA to Improve Compliance with Gloved Hand Hygiene Pamela Bailey DO, MPH, Kaila Cooper RN, MSN, Jo Dee Armstrong-Novak, Michael P. Stevens MD, MPH, Gonzalo Bearman MD, MPH, Michelle Doll MD, MPH

INTRODUCTION

- Contact precautions are used for infection pre
- Prevent horizontal transmission of organisms \bullet
- Full compliance is difficult
- Medical/Respiratory ICU (MRICU) nurses note \bullet with complying with precautions
- PDSA quality improvement project to evaluate \bullet improvement



Figure 1. PDSA (adapted from AHRQ):

• 865-bed tertiary care academic medical center in Richmond, VA with 34 bed unit MRICU

- Plan: observe nursing workflow while in con precaution rooms in the MRICU
- Do: establish a baselin practice
 - Performing the morning tasks
- Study: 2 nurses per mo
- performed observatio \sim 1 month.
 - 6 observations
 - Analyzed the fir
- Act: Recommendation made to MRICU leade regarding the findings observations, completing the first PDSA cycle.

evention	• 6 nurses
	 All performed hand hygiene at
	entry/exit
ed issues	 Variable but low compliance with
ſ	any additional hand hygiene
e for	opportunities
	 Average missed opportunities per
	encounter was 5.2 (range: 2-11).
ntact	 An average of 9.8 tasks were
he	achieved in each room (range: 3-
	18)
ne of	 On average, each visit was 16
	(range: 4-30 minutes) minutes long.
eir	
	Figure 2. Results from Observations
orning,	Nursing Workflow
U,	35
ns over	30
	25
	20
ndings	15
ns were	10
ership	5
s of the	0
ting the	Missed HH Tasks achieved Time spent Opportunities (count) (minutes)

(count)

-Minimum

-Maximum -Average



DISCUSSION

- There is significant opportunity for improved hand hygiene while in contact precautions.
- Wearing gloves appears to eliminate the trigger for hand hygiene.
- Recommend an education campaign to:
 - improve hand sanitizer usage with gloves
 - reminder that the gloves should not remove the 'normal' triggers for hand hygiene.
- Recommend more prominent placement of gloves inside the room.
- A second PDSA cycle could be embarked upon once these changes are made, or after one of the changes.