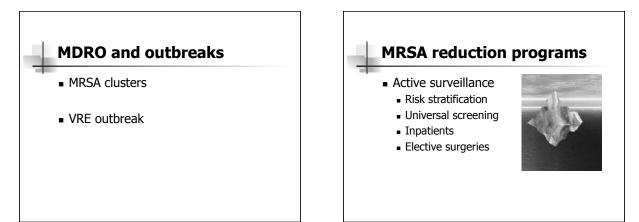
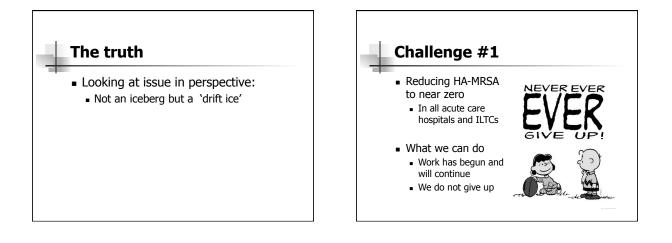
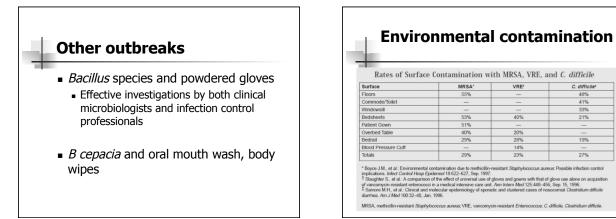
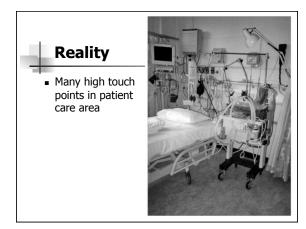


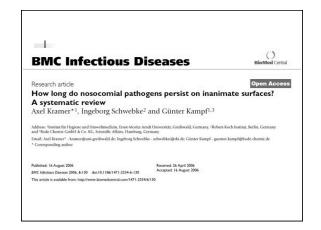
E	SBL (esti	mat	es				
		r			afaat Dia	2005 4.	52(1).	222.0
		L	nagn Mie	2100101	nfect Dis.	2005 AU	$g_{7,52}(4)$:	525-9
Percentage of organisms expre	essing an ESBL p	henotype in the	SENTRY Anti	microbial Surv	eillance Program	in the Asia-Paci	fic region, 1998	8-2002
Organism, country, or region	No. (%) of isol	ates with presur	nptive ESBL ph	enotype	No. (%) of isol	ates with confirm	ned ESBL phe	notype
(number of isolates tested)	All substrates ^a	Ceftazidime ^b	Ceffriatoneb	Aztreonam ^b	All substrates ^e	Ceftazidime ^b	Ceftriaxoneb	Azirconam
K. pneumoniae								
Australia (328)	15 (4.6)	15 (100)	13 (86.7)	11 (73.3)	12 (3.7)	12 (100)	12 (100)	11 (91.7)
(him (76)	28 (37.3)	26 (92.9)	25 (89.3)	28 (100)	23 (30.7)	21 (91.3)	23 (100)	23 (100)
China (75)	37 (16.5)	34 (91.9)	30 (81,1)	33 (89.2)	26 (11.6)	23 (88,5)	24 (92.3)	24 (92.3)
Hong Kong (224)					A1 (10.0)		21 (100)	21 (100)
	23 (11.0)	19 (82.6)	21 (91.3)	21 (91.3)	21 (10.0)	17 (81.0)		
Hong Kong (224) Japan (210)	23 (11.0)	19 (82.6)		21 (91.3) 85 (95.5)	21 (10,0) 70 (21,9)			67 (95.7)
Hong Kong (224) Japan (210) Philippines (319)	23 (11.0) 89 (27.9)	19 (82.6) 89 (100)	21 (91.3) 82 (92.1) 81 (98.8)	· · · ·	70 (21.9)	17 (81.0) 70 (100) 78 (97.5)	67 (95.7)	
Hong Kong (224) Japan (210)	23 (11.0)	19 (82.6)	82 (92.1)	85 (95.5)		70 (100)		67 (95.7) 78 (97.5) 36 (94.7)
Hong Kong (224) Japan (210) Philippines (319) Singapore (225)	23 (11.0) 89 (27.9) 82 (36.4)	19 (82.6) 89 (100) 80 (97.6)	82 (92.1) 81 (98.8)	85 (95.5) 79 (96.3)	70 (21.9) 80 (35.6)	70 (100) 78 (97.5)	67 (95.7) 80 (100)	78 (97.5)



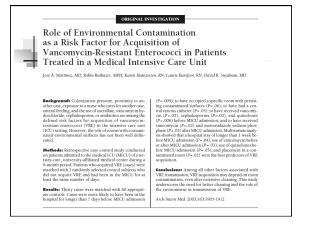


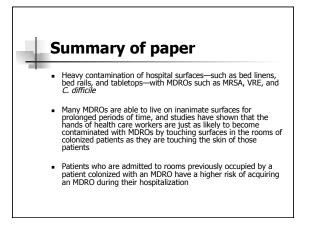


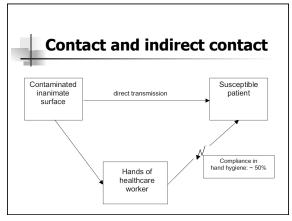




Type of bacterium	Duration of persistence (range)
Acinetobacter spp.	3 days to 5 months
Bordetella pertussis	3 – 5 days
Campylobacter jejuni	up to 6 days
Clostridium difficile (spores)	5 months
Chlamydia pneumoniae, C. trachomatis	≤ 30 hours
Chlamydia psittaci	15 days
Corynebacterium diphtheriae	7 days - 6 months
Corynebacterium pseudotuberculosis	I-8 days
Escherichia coli	1.5 hours - 16 months
Enterococcus spp. including VRE and VSE	5 days – 4 months
Haemophilus influenzae	12 days
Helicobacter pylori	≤ 90 minutes
Klebsiella spp.	2 hours to > 30 months
Listeria spp.	I day - months
Mycobacterium bovis	> 2 months
Mycobacterium tuberculosis	I day – 4 months
Neisseria gonorrhoeae	I – 3 days
Proteus vulgaris	I – 2 days
Pseudomonas aeruginosa	6 hours - 16 months; on dry floor: 5 weeks
Salmonella typhi	6 hours – 4 weeks
Salmonella typhimurium	10 days - 4.2 years
Salmonella spp.	l day
Serratia marcescens	3 days - 2 months; on dry floor: 5 weeks
Shigella spp.	2 days - 5 months
Staphylococcus aureus, including MRSA	7 days - 7 months
Streptococcus pneumoniae	I – 20 days
Streptococcus pyogenes	3 days - 6.5 months
Vibrio cholerae	I – 7 davs





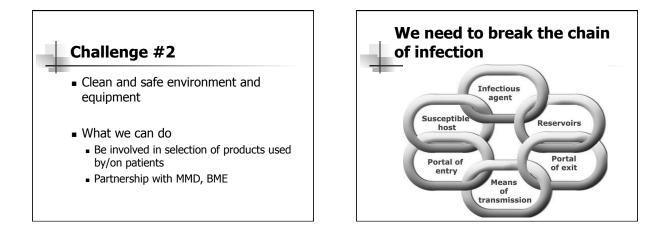


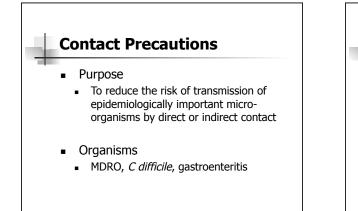


Evaluation of patient area cleaning

- 157 rooms and 1404 targets evaluated in 3 hospitals studied
- 45%, 42%, and 56% of targets were removed by routine terminal cleaning/ disinfecting activities

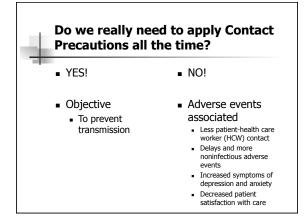
Carling et al, AJIC 2006





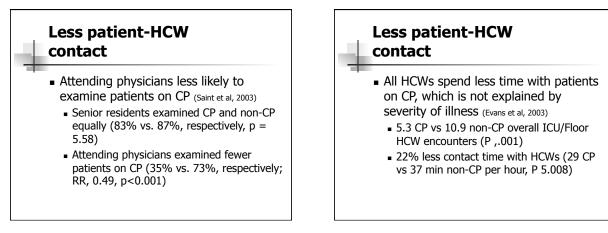
Components

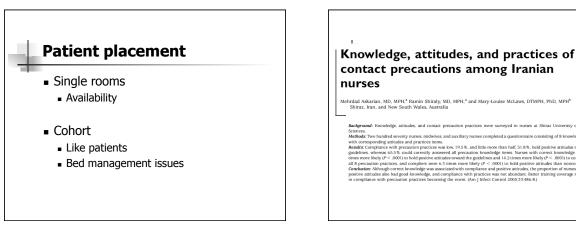
- Patient placementSingle room or cohort
- Gown and gloves
- Hand hygiene
- Patient transport
- Cleaning
- Equipment





- Less likely to visit ICU patients (Kirkland and Weinstein, 1999)
 - 2.1 vs 4.2 hourly patient contacts by HCW for CP patients vs non-CP (p= 0.03)
 - HCWs more likely to wash hands after seeing CP patients (83% vs 34%, respectively, p <0.001)





1			
Knowledge 7	+ Comn	lianco	•
Kilowieuge 7	- Comp	liance	
	•		
Table 1. Scores for correct knowledge, compliant practic nursing staff	es, and positive attitudes r	regarding contact pre	cautions among
	Correct	Positive	Practice
Contact precaution items	knowledge %	attitud e %	compliant ?
solation of patients needing contact precautions in a private room.	71.8	79.4	33.3
Gloving on entry and removing gloves before leaving patient's room.	93.7	96.6	49.6
Washing hands with antibacterial agent on removal of gloves.	78.6	86.0	38.5
Wearing gown on entry to patient's room.	86.0	89.3	37.4
Notifying ward prior to receiving patient.	72.0	78.7	30.4
Dedicating noncritical patient care equipment to isolated patient.	71.5	85.1	27.0
Cleaning and disinfecting all common equipment between isolated patients.	84.7	90.1	36.7
Double plastic gloving for prevention of transmission of hospital- acquired infections.	57.0	32.9	25.2

A controlled trial of universal gloving versus contact precautions for		
pre	eventing the transmission of	
mu	Iltidrug-resistant organisms	
Gonzalo Adriana	M. L. Bearman, MD, MPH, ^a Alexandre R. Marra, MD, ^{a,b} Curtis N. Sessler, MD, ^a Wally R. Smith, MD, ^a Rosato, PhD, ^a Justin K. Laplante, ^c Richard P. Wenzel, MD, MSc, ^a and Michael B. Edmond, MD, MPH, M	

	Phase I (n = 1220)		Phase 2 (n = 1102)		
	Ν	%	N	%	P value
Hand hygiene before patient contact	228	18.7	126	11.4	<.001
Hand hygiene after patient	704	57.7	578	52.5	.011
contact	387	31.7	959	87.0	<.001
Gloving		27.4	959	87.0	
Gown Total compliance*	<u>335</u> 328	75.7	959	87.0	<u> </u>
Time of observations					
Early morning (12 AM-6 AM)	337	27.6	165	15.0	<.001
Morning (6 AM-12 PM)	280	23.0	222	20.1	.11
Afternoon (12 PM-6 PM)	337	27.6	363	32.9	.006
Night (6 PM-12 AM)	266	21.8	352	31.9	<.001

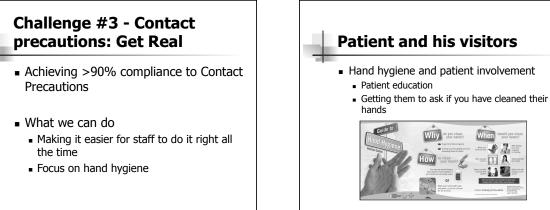
Table 5. Nosocomial infection rates					
Nosocomial infections per 1000 device-days	Phase I	Phase 2	P value		
BSI	6.2	14.1	<.001		
UTI	4.4	7.4	<.001		
VAP	0	2.3	<.001		



- Staff compliance to Contact Precautions about 50%
- Visitors' compliance about 5%

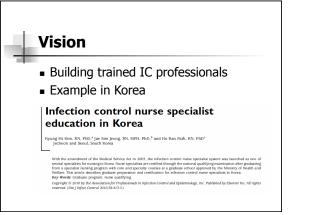
Gown and gloves

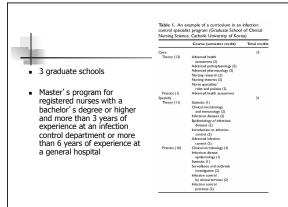
- But I am not touching the patient!
- I am only serving him his food tray!
- I am just talking to the patient!











The changing and expanding roles of the ICPs

- Management
- Engineer
- Educator / facilitator

