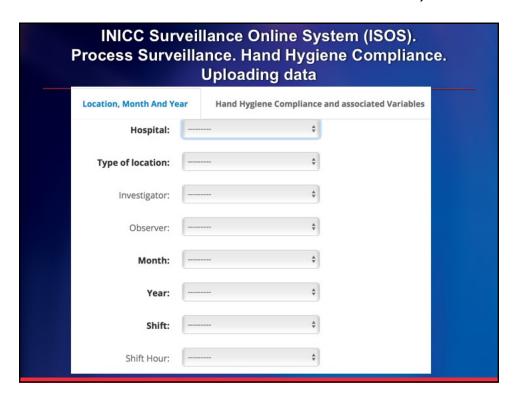


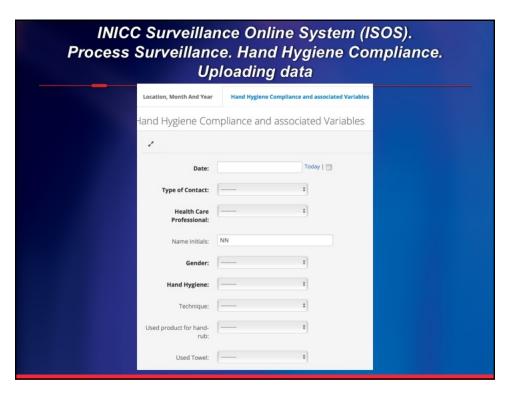
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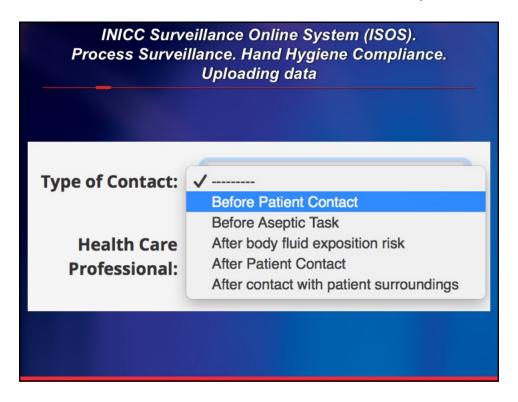


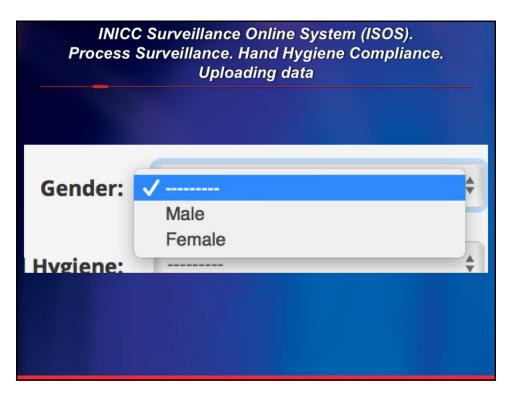
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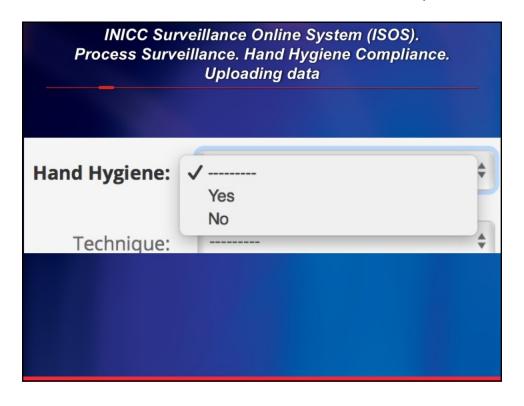


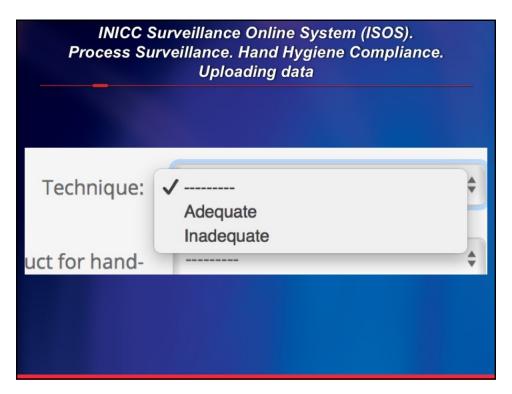
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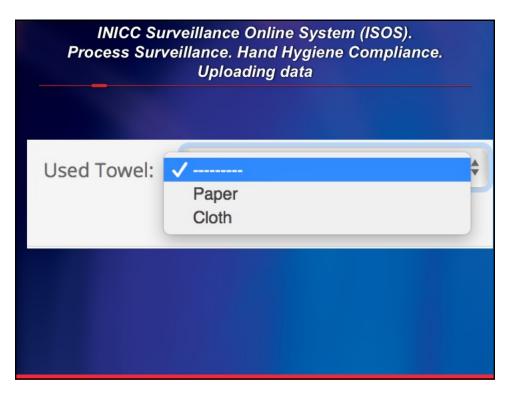
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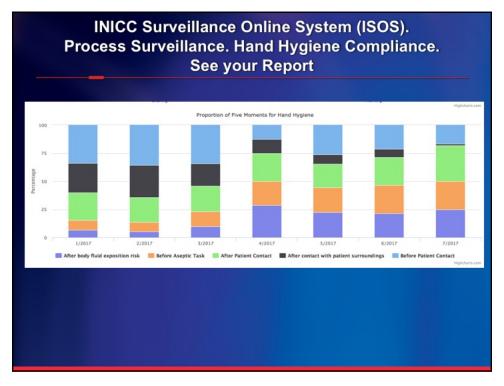
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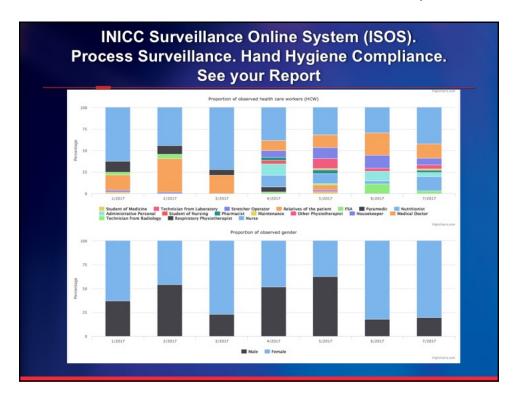


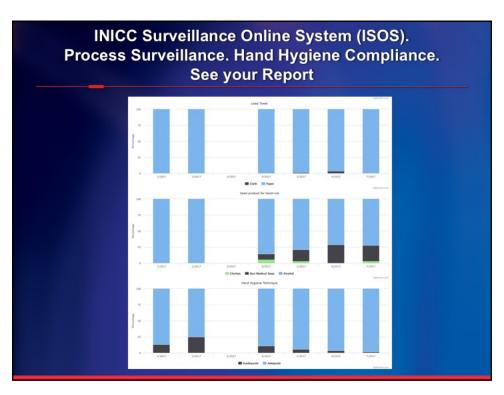


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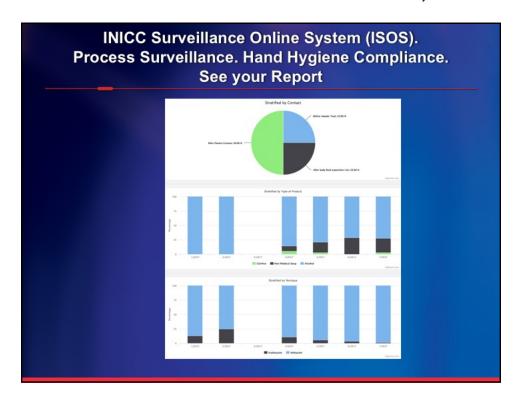
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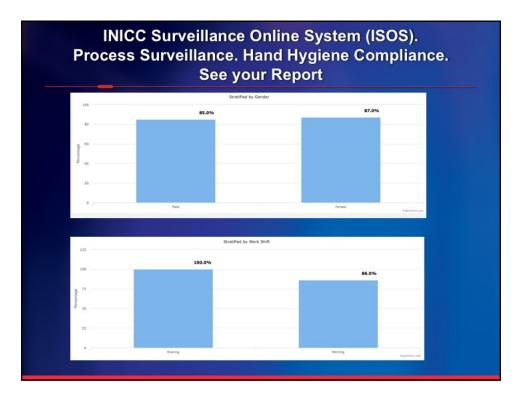


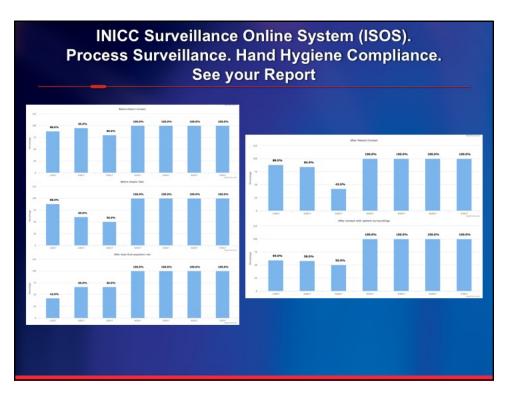
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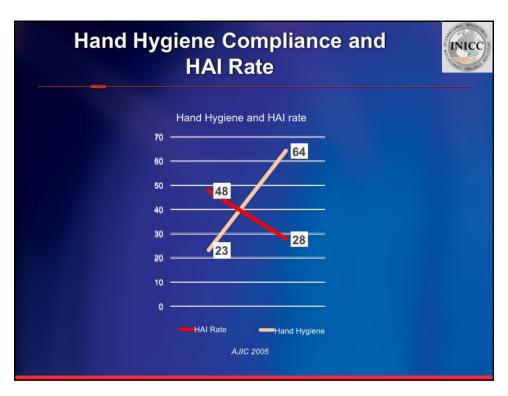
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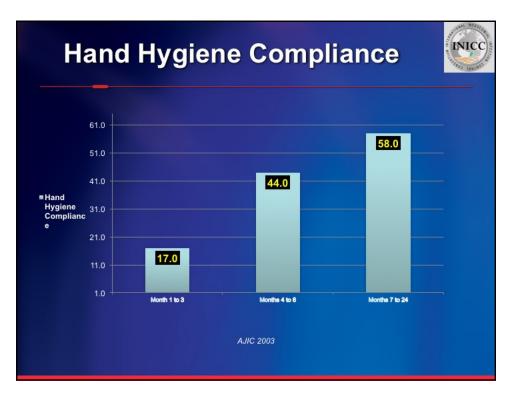
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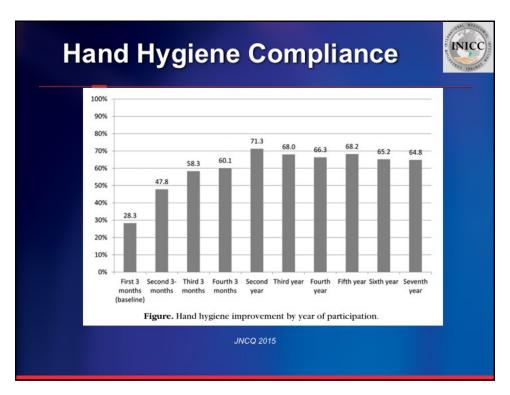


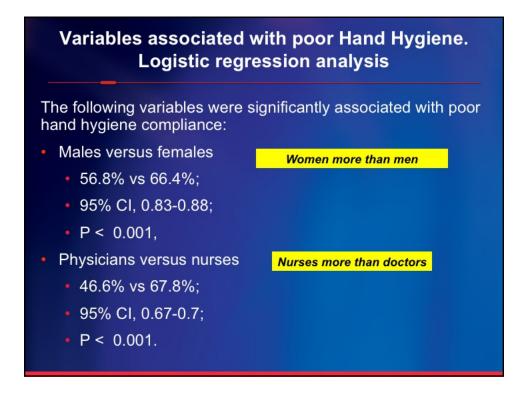


A B	Public		(compliance/criteria)	Total beds	ICU beds	Initial ratio sink:beds	Final rati sink:bed
		Yes	0/9	250	20	1:10	1:10
	Private Private	No Yes	9/9 7/9	150 180	32 20	1:10	1:2
needed,	rt for insta		ditional sinks as whe	en indicated, willingness t	o pay for se	ntimal perform	
infection o	control poli	approval of s icies in time ropriate han	ly manner, (9)	demiologist a		es and succes	ee of th

Variable	OR	(95% CI)	P value
Administrative support	5.57	(5.25-6.31)	.0000
Sex	0.79	(0.73-0.86)	.0000
Days	0.89	(0.79-1.00)	.058
Procedure	0.84	(0.78-0.90)	.0000
Unit	1.43	(1.30-1.59)	.0000
Work shift	0.98	(0.93-1.03)	.519
HCW	0.66	(0.63-0.70)	.000

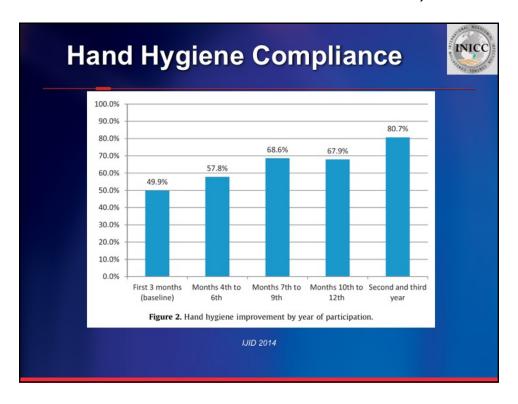








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09.	suc regressi	on analysis	
Hand hygiene com analysis	pliance by type of varia	able: logistic regression,	multivari
Variable		Adjusted OR (95% CI)	p-Valu
Type of hospital ( Private Sex (baseline: Fer	111.11	1 0.65 (0.54–0.80) 1	0.001
Male	Women more than men nal (baseline: Nurses)	0.88 (0.79-0.98) 1	0.024
Physicians Ancillary staff	Nurses more than doctors	0.41 (0.36–0.47) 0.92 (0.84–1.01)	0.001 0.092
Type of contact (b Non-invasive Type of ICU (base	Daseline: Invasive)	1 0.42 (0.38–0.47)	0.001
Adult ICU Pediatric ICU	ille. Adult)	0.56 (0.46–0.69) 0.28 (0.22–0.37)	0.001 0.001
Work shift (baseli Afternoon	ine: Morning)	1 0.77 (0.71–0.85)	0.001
Night		0.70 (0.63-0.78)	0.001



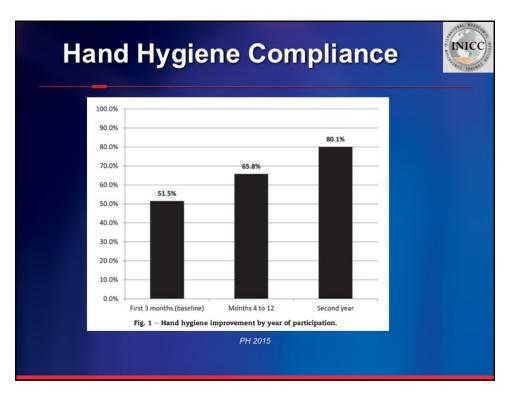
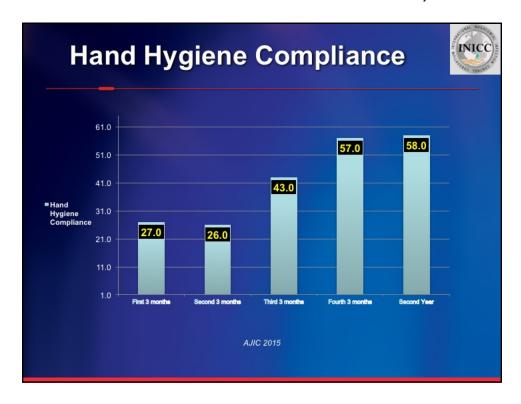
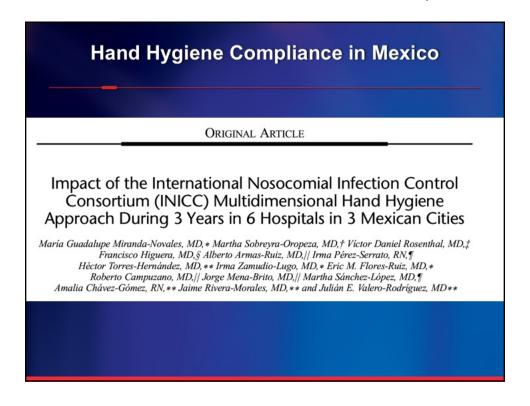


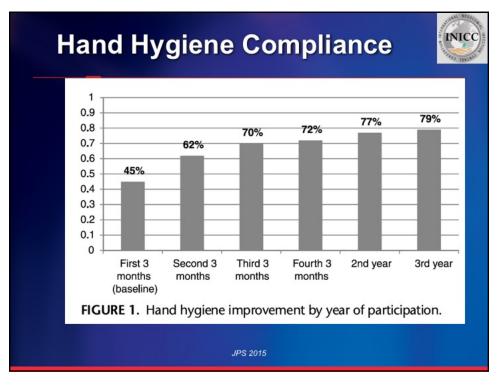
Table 4 — Hand hygi- Logistic regression, 1			variable.	
Variable	Adjusted OR	95% CI	P-value	
Sex (baseline: female)	1.0			
Male	0.76	0.6-0.98	0.04 W	omen more than me
Type of professional (baseline: nurses)	1.0			
Physicians	0.82	0.63-1.1	0.13 Nur	ses more than doct
Ancillary staff	0.57	0.32-1.0	0.06	
Type of contact (baseline: invasive)	1.0			
Non-invasive	0.98	0.8 - 1.22	0.9	
Type of ICU (baseline: adult)	1.0			
Work shift (baseline: morning)	1.0			
Afternoon	0.54	0.42-0.7	0.0001	





	Logis	tic regression	an	aıys	IS			
IH compliance by	type of variable							
		Univariate analysis				Mult	ivariate anal	ysis
Variable	% (no. of HH/no. of opportunities)	Comparison	Relative risk	95% CI	P value	Adjusted OR	95% CI	OR P value
Type of hospital								
Academic	42 (911/2,159)	Academic vs private	.94	0.87-1.01	.041	1.0	0010	07
Private Sex	40 (1,061/2,678)					0.9	0.8-1.0	.07
Female	38 (1,451/3,769)	Female vs male	.80	0.7-0.9	.0001	0.72	0.62-0.84	.0001
Male	49 (521/1,068)	Telline 15 marc	.00	0.7-0.5	.0001	1.0	0.02-0.04	.0001
HCWs	45 (521)1,000)	Women less than men				1.0		
Nurses	55 (406/738)	Nurses vs physicians	.86	0.76-0.98	.02	1.0		
Physicians	48 (272/572)	Nurses vs ancillary staff	.70	0.6-0.76	.0001	0.64	0.51-0.8	.0001
Ancillary staff	37 (1,294/3,527)	Physicians vs ancillary staff	.77	0.7-0.9	.0005	0.5	0.4-0.6	.0001
Procedure		Nurses more than doctors						
Noninvasive	41 (1,491/3,653)	Noninvasive vs invasive	.99	0.94-1.1	.90	1.0		
Invasive	41 (481/1,184)					0.99	0.94-1.1	.90
Work shift								
Morning	48 (764/1,604)	Morning work shift vs afternoon work shift	.76	0.7-0.83	.0001	1.0		
Afternoon	36 (570/1,579)	Morning work shift vs night work shift	.81	0.74-0.9	.0001	0.65	0.6-0.75	.0001
Night	39 (638/1,654)	Afternoon work shift vs night work shift	.94	0.85-1.0	.16	0.73	0.63-0.84	.0001

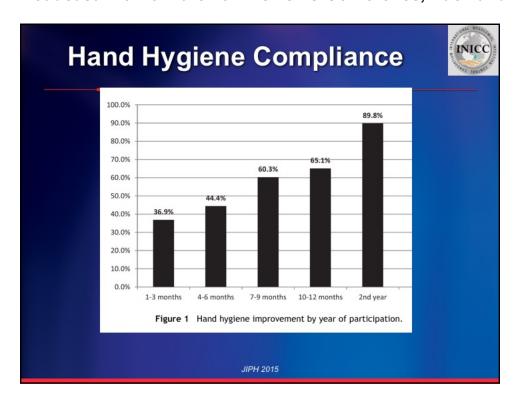




Logistic reg				
TABLE 4. Hand Hygiene ( Logistic Regression, Multiv		ype of Varial	ole.	
Variable	Adjusted OR	95% CI	P	
Type of hospital (baseline: public)	1.0			
Academic	0.36	0.33-0.40	0.0001	
Sex (baseline: male)	1.0			
Female	0.98	0.89 - 1.1	0.8	Women similar to me
Type of professional (baseline: ancillary staff)	1.0			
Physicians	0.76	0.68-0.85	0.0001	
Nurses	0.51	0.44-0.6	0.0001	Nurses less than doc
Type of contact (baseline: invasive)	1.0			
Noninvasive	0.58	0.53-0.62	0.0001	
Type of ICU (baseline: adult)	1.0			
Newborn	0.53	0.48-0.6	0.0001	
Pediatric	0.87	0.75 - 1.0	0.048	
Work shift (baseline: morning)	1.0			
Afternoon	0.91	0.84-1.0	0.04	
Night	0.74	0.67-0.82	0.0001	



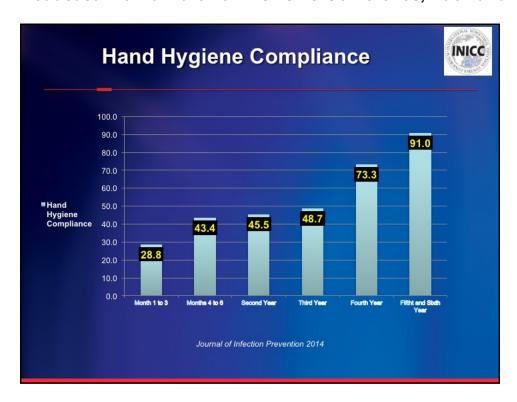
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			n analy		
Variable	% (# HH/# opportunities)	Comparison	Adjusted OR	95% CI	P valu
Type of hospital (bas	seline: private)				
Private	74.2% (1151/1552)		1		
Academic	66.3% (1366/2060)	Ac vs. Pr	0.49	0.42-0.60	0.001
Sex (baseline female	e)				
Female	71.2% (1801/2528)	F vs. M	1	Women similar	to men
Male	66.1% (716/1084)		0.86	0.70-1.07	0.186
Type of professional	(baseline: physicians)			Nurses less than	doctors
Physicians	74.0% (883/1194)	Ph vs. AS	1	Nurses less triali	doctors
Nurses	70.5% (1519/2154)	Ns vs. Ph	0.77	0.62-0.96	0.018
Ancillary staff	43.6% (115/264)	Ns vs. AS	0.23	0.16-0.31	0.001
Type of contact (bas					
Invasive	82.8% (681/822)	NI vs. I	1		
Non-invasive	79.0% (1680/2127)		1.02	0.82-1.3	0.850
Work shift (baseline:					
Afternoon	71.6% (815/1139)	M vs. A	1.0		
Morning	67.2% (968/1440)	M vs. N	0.96	0.79-1.20	0.723
Night	71.1% (734/1033)	A vs. N	0.92	0.74-1.1	0.447



Loç	gistic regress	sion analys	is	INICO
Variable	Adjusted OR	95% CI	P.Value	
Sex (baseline: Female)	1			
Male	0.93	0.86 - 1.00	0.056	Women similar than men
Type of professional (baseline: nurses)	1			
Physicians	1	0.94 - 1.1	0.804	Nurses similar than Doctors
Ancillary Staff	0.69	0.64 - 0.75	0.001	Nurses better
Type of contact (baseline: invasive)	1			than anc staff: 31%
Non-invasive	0.65	0.61 - 0.96	0.001	Invasive better than Non: 35
Type of ICU (baseline: pediatric)	1			
Adult ICU	0.22	0.19 - 0.24	< 0.001	Pediatric better than Adult
Work Shift (baseline: Morning)	1			ICU: 18%
Afternoon	0.97	0.91 - 1.03	0.372	
Night	0.65	0.59 - 0.74	0.001	Morning better than Night: 35

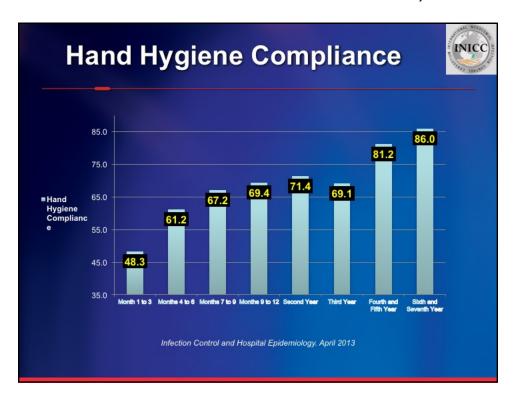




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Characteristics of the Participating Hospitals (from April 1999 to December 2012)				
	ICUs, n	Number of observal		
Country				
Argentina	11	21998		
Brazil	4	4837		
China	5	2079		
Colombia	11	13512		
Costa Rica	1	303		
Cuba	1	434		
Greece	1	2315		
El Salvador	3	1691		
India	18	32869		
Lebanon	1	1728		
Lithuania	1	1565		
Macedonia	1	3418		
Mexico	10	13201		
Pakistan	3	1830		
Panama	1	551		
Peru	5	6610		
Philippines	9	17844		
Poland	1	102		
Turkey	12	22840		
All countries	99	149,727		
Type of ICU, n				
Adult	80 (81%)	131882		
Pediatric	9 (9%)	9081		
New Born	10 (10%)	8764		
All ICUs	99 (100%)	149,727		
Type of hospital, n (%)				
Academic Teaching	27 (42%)	50515		
Public Hospital	16 (25%)	40530		
Private Community	22 (34%)	58682		
All hospitals	65 (100%)	149,727		

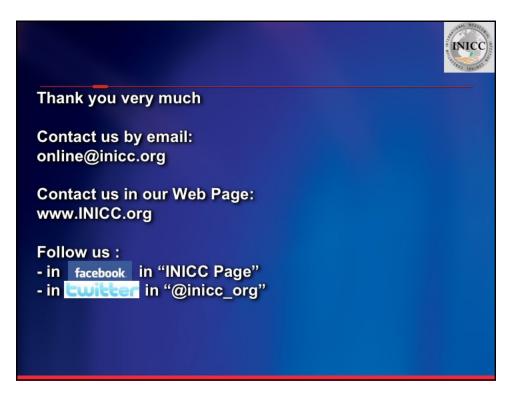
Variables associated with poor Hand Hygiene.  Logistic regression analysis						INIO
Variable			Adjusted OR	95% CI	P. value	
Gender (baseline: Fer	male)	Women	1.0			
Male		better than men: 9%	0.91	0.89 - 0.93	< 0.001	
Type of professional	(baseline:	nurses)	1.0			
Physicians		better than	0.68	0.66 - 0.70	< 0.001	
Ancillary Staff	Doctors: 32%		0.52	0.51 - 0.54	< 0.001	
Type of contact (base	line: inva	sive)	1.0			
Non-invasive			0.95	0.93 - 0.98	< 0.001	
Type of ICU (baselin	e: New E	Born)	1.0			
Adult ICU	Neonatal	better than	0.49	0.47 - 0.52	< 0.001	
Pediatric ICU	Adult I	CU: 51%	0.58	0.54 - 0.62	< 0.001	
Work Shift (baseline:	Night)		1.0			
Afternoon			0.79	0.76 - 0.81	< 0.001	
Morning			0.83	0.81 - 0.86	< 0.001	





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October 26, 2017	INFECTION CONTROL IN PARAMEDIC SERVICES  Speaker: Jennifer Amyotte, City of Greater Sudbury Paramedic Services, Canada
October 31, 2017	(FREE European Teleciass) INFECTION PREVENTION CHALLENGES AMONG HOSPITALIZED CHILDREN AND NEONATES IN AFRICA Speaker: Prof. Dr Angela Dramowski, Stellenbosch University, Cape Town
November 9, 2017	CLEANING THE GREY ZONES OF HOSPITALS: LESSONS FROM A COMMUNITY-BASED TEACHING HOSPITAL Speaker: Prof. Makeda Semret, McGill University, Montreal
November 21, 2017	(European Teleclass) THE ROLE OF RAPID DIAGNOSTICS IN PREVENTING HEALTHCARE INFECTION Speaker: Dr. Hilary Humphreys, The Royal College of Surgeons in Ireland
December 7, 2017	BEYOND HIGH-TOUCH SURFACES: FLOORS, PORTABLE EQUIPMENT, AND OTHER POTENTIAL SOURCES OF HEALTHCARE INFECTION TRANSMISSION Speaker: Prof. Curtis J. Donskey, Case Western Reserve University, Cleveland
December 14, 2017	(FREE Teleclass) ENHANCED PERFORMANCE FEEDBACK AND PATIENT PARTICIPATION TO IMPROVE HAND HYGIENE COMPLIANCE Speaker: Dr. Hugo Sax. University of Zurich Hospitals, and Dr. Andrew

