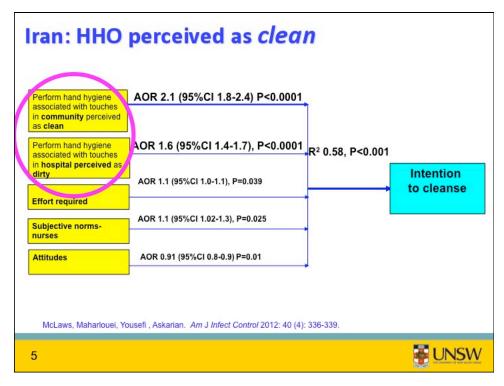
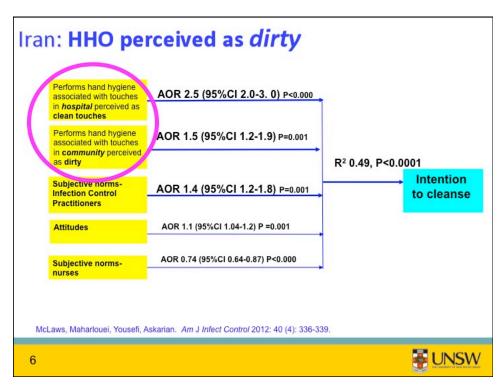


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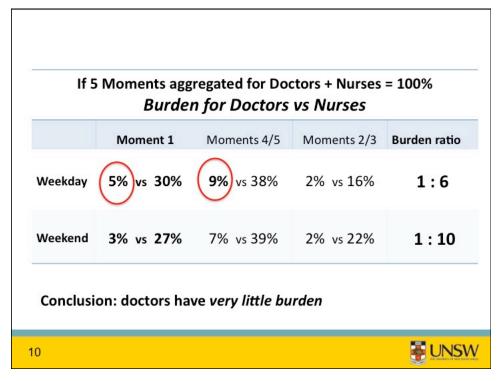
UNSW HE LANGESTY OF NEW MALES MAKES

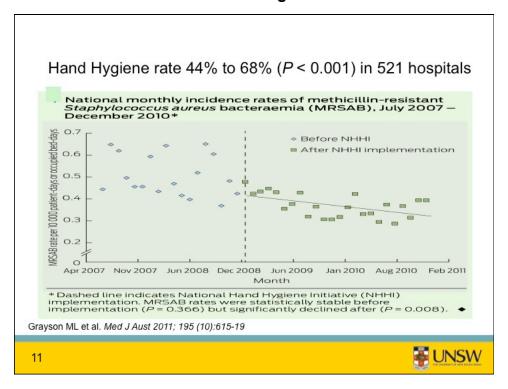
UNSW

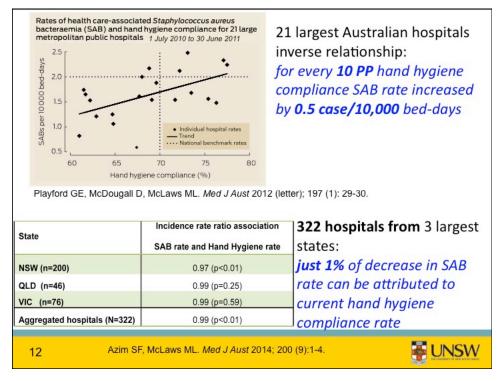
Hand hygiene opportunities required to be observed per quarter for rates ≥60% to give reliable estimate i.e. (95CI 58%-63%)

pro	ofessio	า	5 moments
Physicians	1750	+	1750
Nurses	1750	+	1750
Medical students	1750	+	1750
Nursing students	1750	+	1750
Allied health	1750	+	1750
Total	8750	+	8750 = 7,500
Azim SF, McLaws ML. Med J Aust 2014; 200) (9):1-4.		

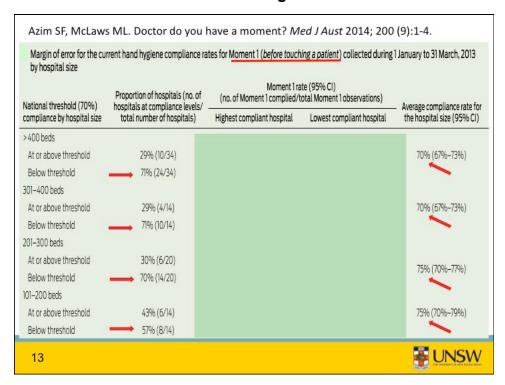
	Nurse	Doctor	ratio
Medical	22	6 Decline	4:1 by 14PP-22PP in 4:1
Surgical	33	8	4:1







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		Complianc	e rate (95% CI)	Percentage point difference	
Hospital size or state	No. of hospitals	Doctors	Nurses	between doctor and nurse compliance	Р
Hospital size (no. of beds)					
>400	34	63% (62%-64%)	80% (80%-80%)	17	< 0.01
301-400	14	62% (61%-64%)	79% (79%–80%)	17	< 0.01
201-300	20	65% (64%-66%)	82% (82%-82%)	17	< 0.01
101-200	14	65% (63%-66%)	83% (82%-83%)	18	< 0.01
State					
New South Wales	30	65% (64%-65%)	84% (83%-84%)	19	< 0.01
Queensland	19	61% (60%-62%)	79% (79%-80%)	18	< 0.01
Victoria	17	68% (67%-70%)	77% (77%-78%)	9	< 0.01

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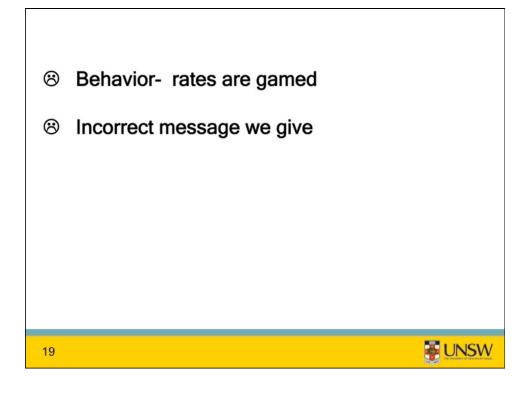
⊗ Incorrect message we give
and
Invalid and unreliable sampling
15 UNSW
Q. Does this mean there is little association between hand hygiene and bacteremia?
A. Yes and No

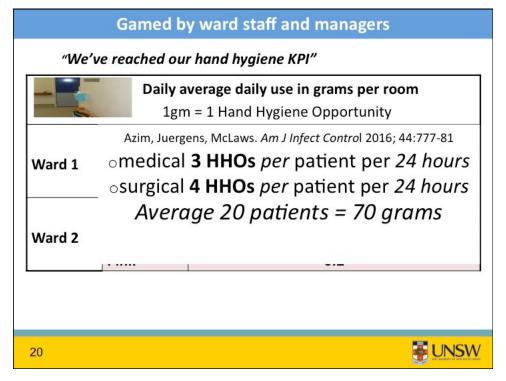
16



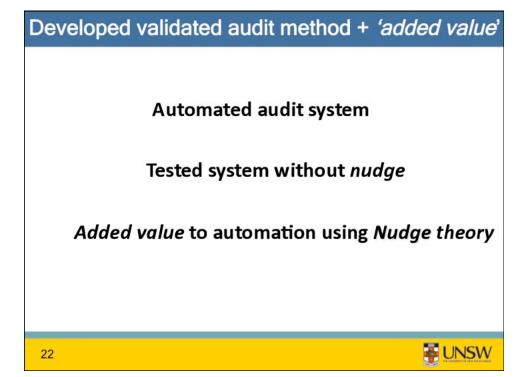








	Gamed b	y ward staff and managers
"We'v	e reached ou	r hand hygiene KPI"
	Barria A District	verage daily use in grams per room n = 1 Hand Hygiene Opportunity
	Clear	1.23
Ward 1	Blue	14.7
	Pink	0.87
	Clear	0.35
Ward 2	Blue	1.25
	Pink	0.2
21		UNSW LANGUES IN THE REAL PLANE.



Developed validated automated method + 'added value'

- Developed a validated automated surveillance system to monitor compliance
- Transformed compliance into peer-lead behaviour change
- Pioneered daily rates + nudge theory
- Sustained behaviour since June 2014
- Adapted nudge theory

Ethics approval: UNSW Australia; Area Health Service- test hospital

23



Developed validated automated system

Installed Wi-Fi

Daily compliance data gathering

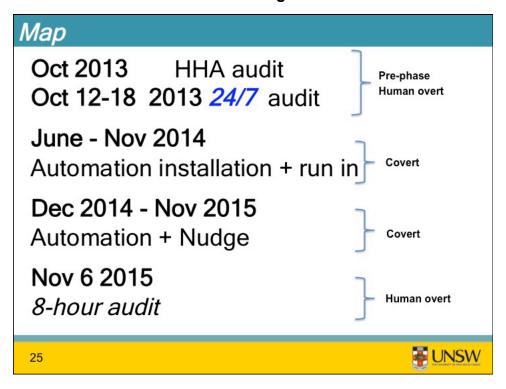
- Automated numerator by depressing hand hygiene dispensers
- Use denominator from 24/7 audits of hand hygiene opportunities

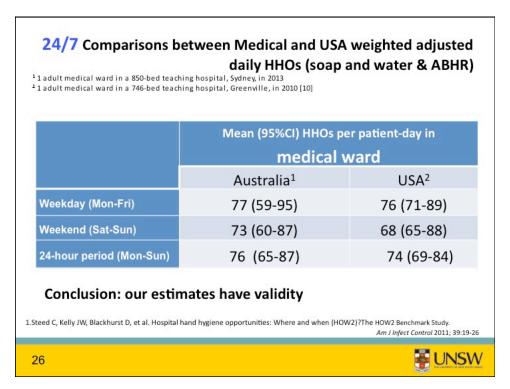
Team compliance rate

Total hand hygiene compliance

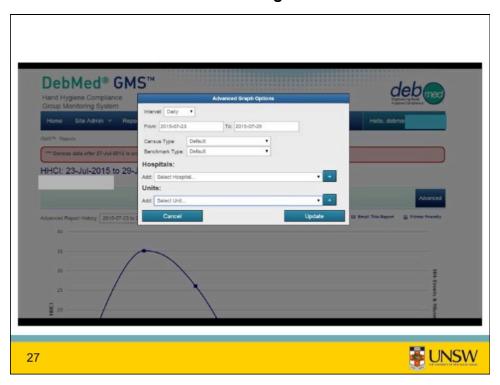
24

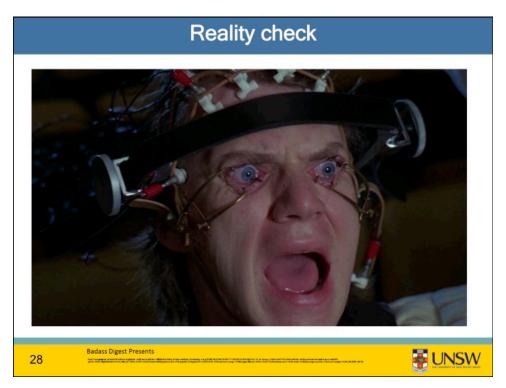






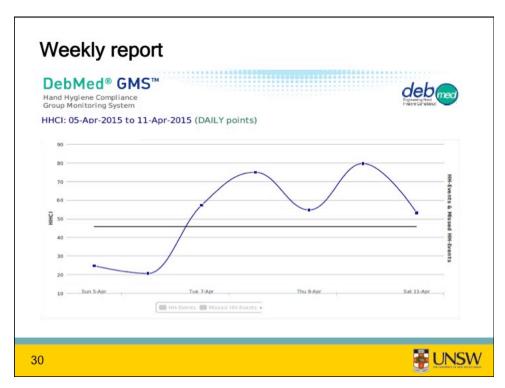
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	Reali	ty check	
	2014	2015	
	Automation Without nudge	Automation plus nudge	
	40%	60%-80%	
20	Badass Digest Presents		INSW/
29	Badass Digest Presents nonneparation of the set of the		JNSW



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Transformed evidence of compliance into action using every clinician

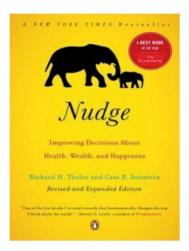
Nudging Steps for co-operation

- 1: using evidence yesterday's rate from new automated system
- 2: continuous improvement "Did we reach our goal rate?"
- 3: group mantra "Hand hygiene is for the benefit of the patient"
- 4: developing trust to ask for help "Nudge me"
- 5: practice nudging "Doctors take a moment"
- 6: be your goal visualise yourself cleansing your hands on entry to first patient's room

31



Nudge theory



- President Barak Obama
- Prime Minster David Cameron
- Donor registration increased 38 to 60% in the US from the drivers license department
- Toilets in Amsterdam's Schipol airport, drawings of black flies, \$spillage 80%
- · Quit smoking rates increased
- · Vaccinations uptake

32





2014	2015
Automation	Automation
without nudge	plus nudge
40%	70%

34

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UNSW

From following to nudging

"Older doctors are very much on board [nudging]....and act as a role model,

2 consultants [1 is head of department] always cleans in and out... the rest of the team follows and do not need to be nudged....."

35



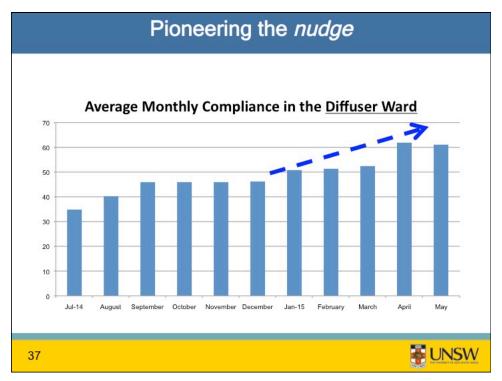
From following to nudging

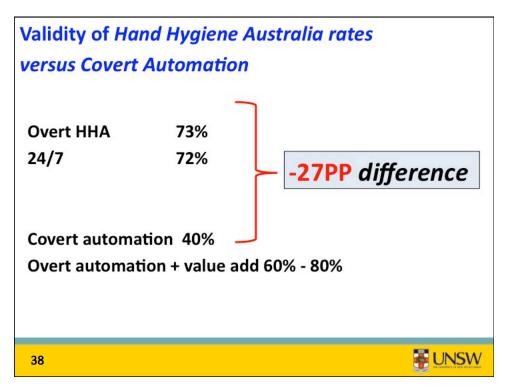
"Yes, daily I remind them [doctors] about the opportunities that they missed, not 7 steps, I don't follow all the 7 steps at the hand over, but give a reminder here and there.

We [all ward staff] are very motivated as a group."

36

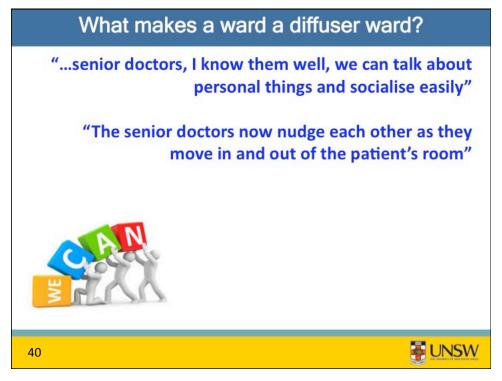




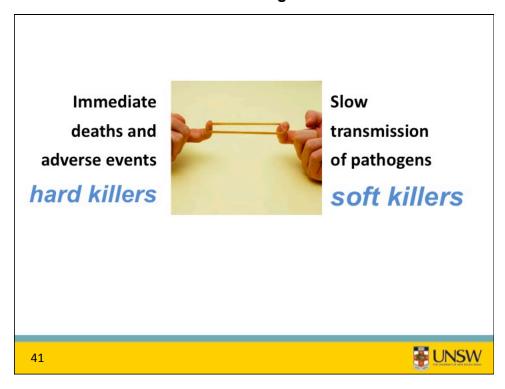


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3-hour a	udit	
,159 HHOs	collected automatic	ally >3 times HHA sa
	Medical	Surgical
Nurses	86% (95%CI 83%-90%)	75% (95%CI 70%-79%)
Doctors	88% (95%CI 76%-94%)	62% (95%CI <mark>52%</mark> -71%)
Moment		
1	74%	79%
2	76%	78%
3	95%	86%
4	92%	82%
5	85%	44%
Total	85%	70%
9		¥:

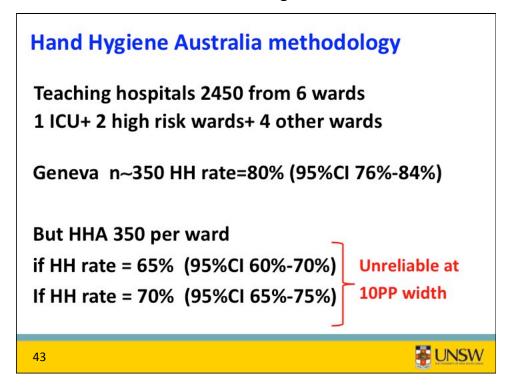


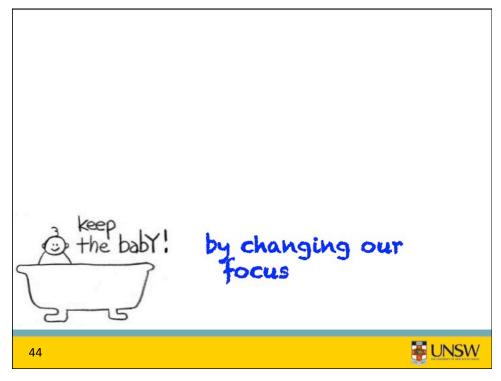
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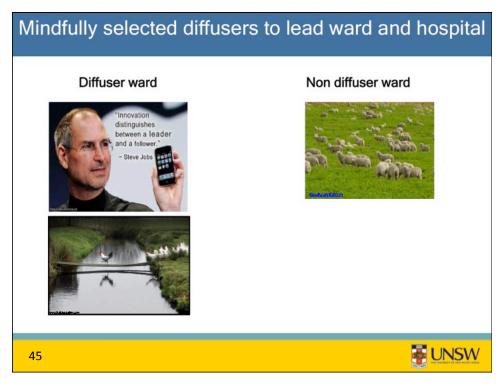


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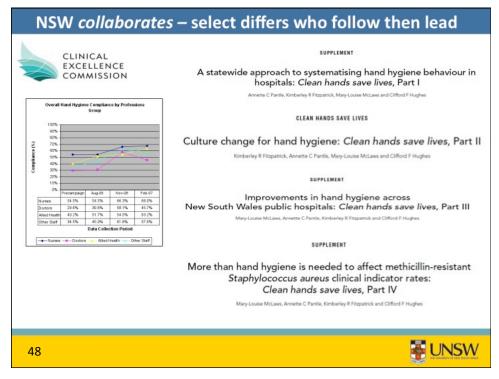
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Conclusions

Automation provides superior data

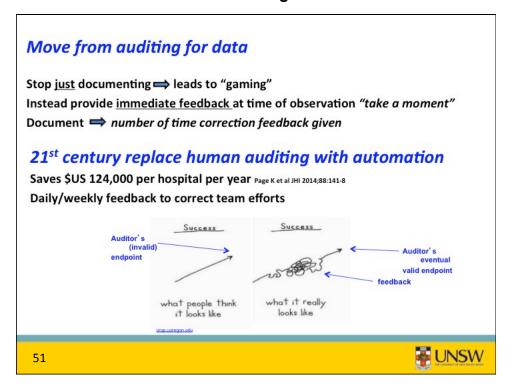
Human auditors - in situ contemporaneous education

"Take a moment" nudging some improvement but more likely proxy for high functioning ward

Diffusers - followers - leaders - improve hand hygiene

50









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