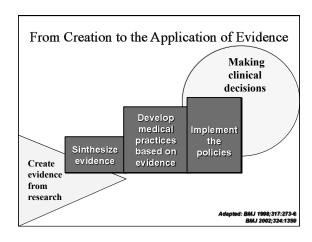


Disclosure of Conflicts of Interest • Nothing to declare

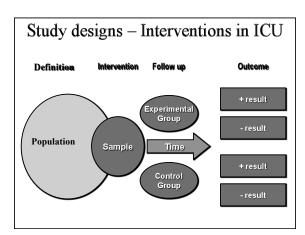
My Outlines Are:

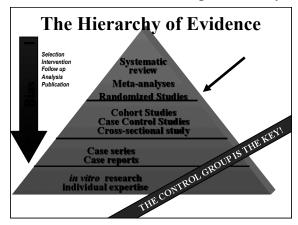
- The intersection of ICU and Hospital Epidemiology
- Discussing about hand hygiene (HH) considering study designs
- Strategies for improving HH compliance
- · Positive Deviance
- From lab to clinic battle

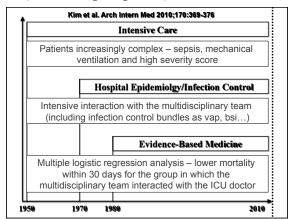


The evidence does not make decisions, people do

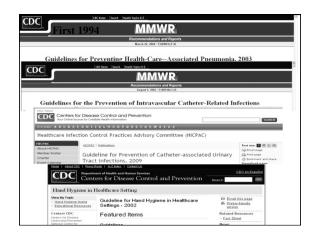
Hagnes RB, Devenaux PJ, Guyaff GH BMJ 3000,5224-1539











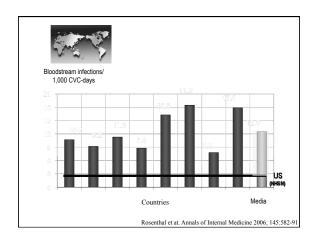
Category HAND H	Recomendation YGIENE!	Study design
IA	Strongly recommended for implementation	Well-designed randomized studies
	Strongly recommended for implementation	Well-designed non- randomized studies
IC HAND HY		Cohort or case-control studies
п	Suggested for implementation	Historical cohort
No recommendat unresolved issue	ion; Practices for which insufficient evidence or consensus regarding efficacy exists	Individual expertise



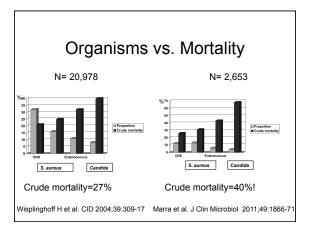
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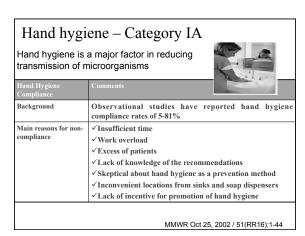


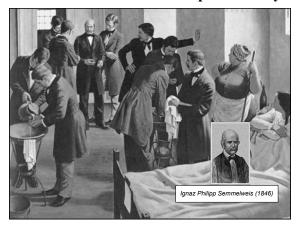


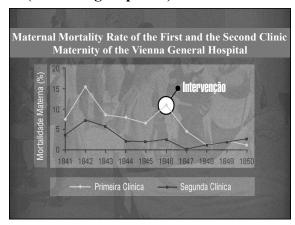


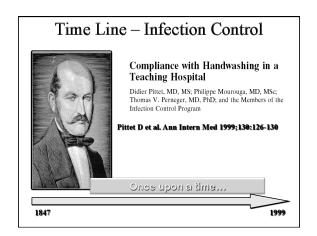


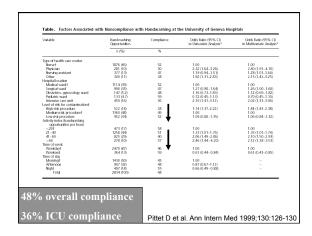


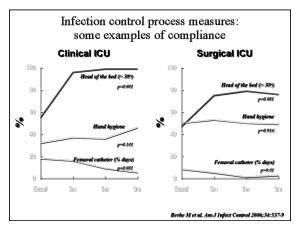








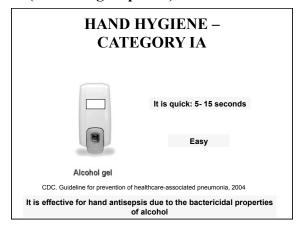


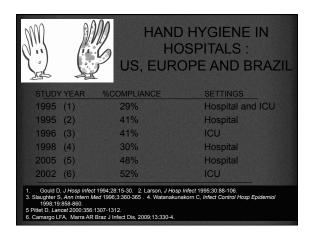




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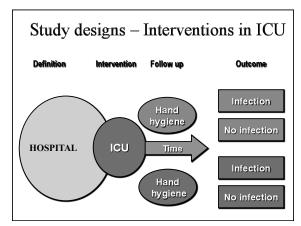


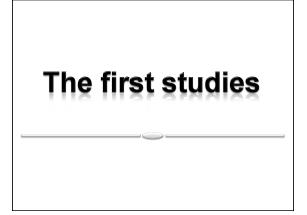


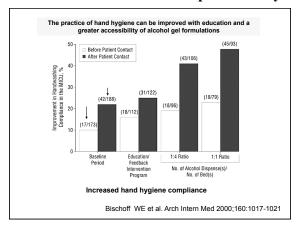


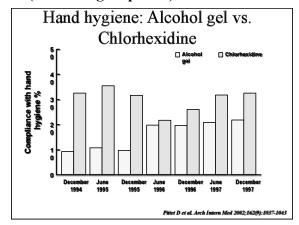
Interventions for improving hand hygiene compliance

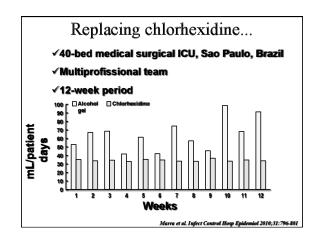
• What is the best evidence?

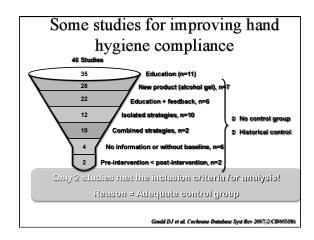












Some studies for improving hand hygiene compliance

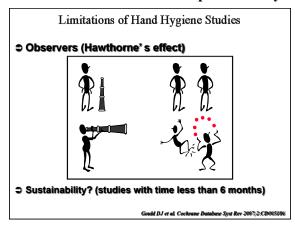
- ⇒ Gould 1997 before/after control study UK nurses (4 surgical wards)
- Intervention: educational sessions + hand hygiene + universal precautions
- ⇒ Outcome: unsuccessful intervention after three months

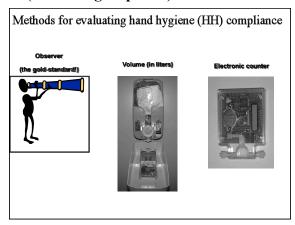
Gould DJ et al. J Clin Nursing 1997;6:55-67

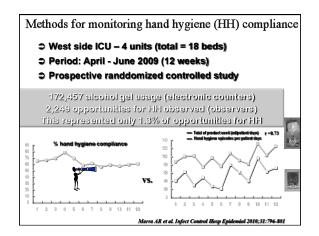
Some studies for improving hand hygiene compliance

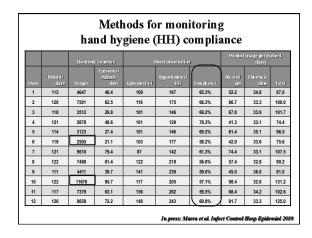
- Huang 2002 (randomized control trial) –
 98 chinese nurses (ward)
- Intervention: educational sessions + universal precautions
- Outcome: successful intervention after three months

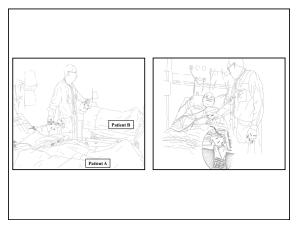
Huang J et al. J Continuing Education in Nursisng 2002;38:217-224

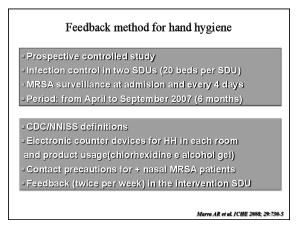


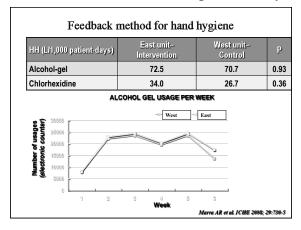


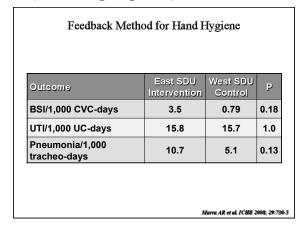


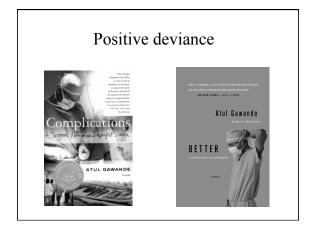


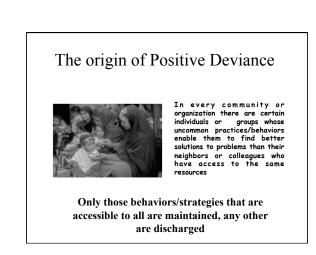


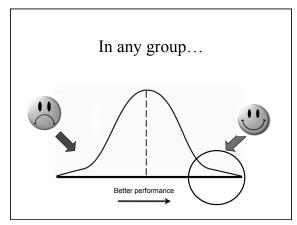






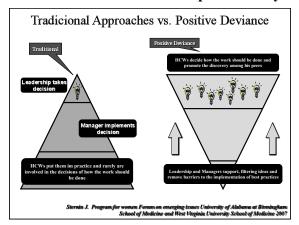








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Positive deviance: A new strategy for improving hand hygiene compliance

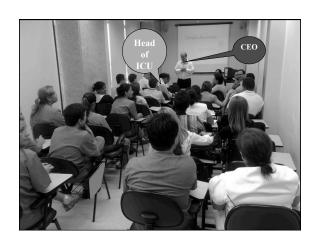
- 2 (20 bed each) step-down units (E & W):
 9 mo period (3 phases)
 - 1st: Pre-intervention: counted hand hygiene episodes (electronic counters)
 - 2nd: implemented PD strategy in E unit
 - 3rd: PD applied in both units
- HAIs surveillance: performed by trained ICNs

Marra et al. ICHE 2010, 31:12-20

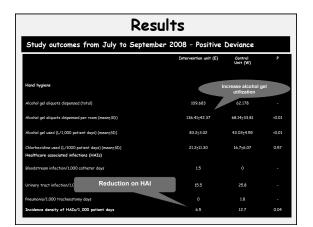
Positive deviance Approach

- Meeting of all HCWs (2x/mo).
- · Opportunities to express their feelings about hand hygiene.
- Needs to improve (changing experiences).
- · Monthly HAI rates were shown to HCW.
- Identified "positive deviants*" HCWs. They identified others and so forth... (*Are those who wanted to change and develop new ideas for improving hand hygiene and who stimulated other HCWs).

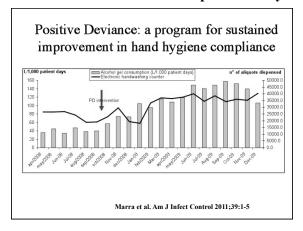
Marra et al. ICHE 2010, 31:12-20

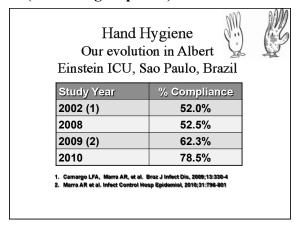




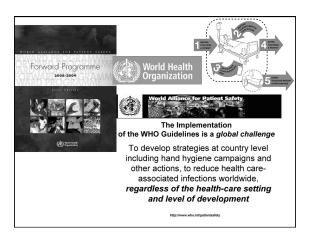


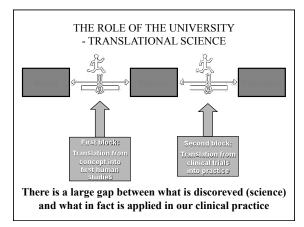
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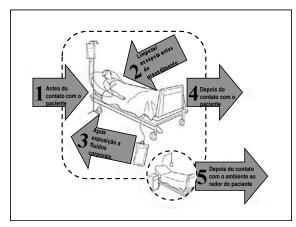




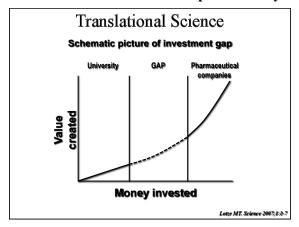








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TRANSLATIONAL SCIENCE

- "it comprises a meaning that should be considered science and academic activity with the development of strategies and tools that actually lead to discoveries that will benefit both patient and society"
- "Considerable gap between basic acquired science and its application: long period between initial experimental results and their transformation into new technologies for health purposes"

