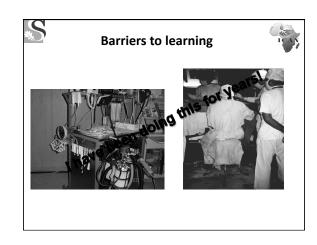
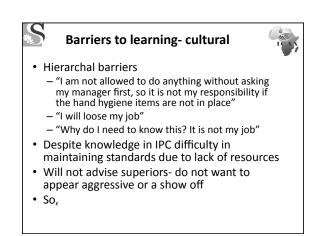
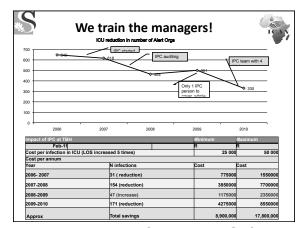


# Why educate and train? The aim of education is to deliver relevant information so that the recipients can make informed decisions, evaluate the risk (in their daily practice) and change behaviour to make practice safe (Mehtar, 2010). Educational interventions are universally accepted as an integral part of programmes aimed at improving HCW practices (Mathai, E et al.

Infection, 2010: 38; 349-358)







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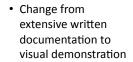
# **Barriers - linguistic**



- · Countries with several languages may require some basic education in all languages BUT there may not be the appropriate words in that language to transfer the information accurately
  - "I use alcohol rub with water when there is no liquid soap. Is that a problem? Both are used for hand hygiene, aren't they?"
  - "I can wash my hands with water, and then rub them with ash because there is no soap. My hands are clean."
- So,



# Change the method of information delivery





Increase face to face discussion to clarify





# **Barriers- literacy (LMIC)**



- Few healthcare workers have access to the internet at work in LMI countries.
- They do not have easy access to libraries or the written word
- They rely on guidelines from national sources which they neither understand nor can they fully implement
- Overworked and do not have time
- Need visual pictorial reminders





# **BEHAVIOUR CHANGE**



Culture is made up of beliefs, habits, attitudes and assumptions shared by the people in a group. Cohn, K. Journal of Healthcare Management (2009); 54, 2



What is required to modify the culture of learning?

# **Education programmes in health**



Within the health care industry, health care professionals must collectively acknowledge that it is no longer acceptable to:

- Accept single health care professions or professionals working in isolation to handle the patients' needs and provide adequate care,
- Accept single health professions or professionals to be trained in silos and isolation.
- Accept the current *lack of leadership* on the part of health care professionals and educators for developing and implementing structured interdisciplinary education, and
- Assume that all health professionals are capable or properly trained to work together in all health care environments starting on the day of graduation.

# **Team focused learning**



- (a) mutual trust between the organization and its employees,
- (b) empowering employees to
- participate in pianning, organizational, and goal-setting activities, and (c) emphasizing to employees that upholding the organization's social and moral responsibilities and accountability are shared responsibilities.
- It also requires proper training and appropriate formal education. Interdisciplinary health professions education must be incorporated into the formal curriculum of all health disciplinary.



A mixed group of students- FIPC

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# Physicians and hand hygiene



- · Autonomy is important and do not like to be told how to manage their patients
- "prefer inspiration to supervision"
- · Barriers to hand hygiene
  - Lack of familiarity
  - Disagreement with the guidelines
  - Expectation that the guidelines will not improve patient outcome
  - View of own effectiveness
  - Motivation
  - External barriers- lack of provision



# **Changing Physician behaviour**



- Start small
- Celebrate benefits and successes
- Bottom up approach
- Improve the practice environment
- Healthy competition
- Champions..... "Health care is however a handson and very personal business. Personal qualities (Reason J; 2008: World Alliance for Patient Safety, WHO)
- Physicians did not agree they were role models for HH, yet medical students viewed them as such (Jang JH et al. 2010: Infect Control Hosp Epidemiol:31, 144-50)

Cohn K; Journ Healthcare Management 2009: 54, 2



# Qualitative study on HH



Eight focus groups across four hospitals and survey of nurses and managers: 230 circulated - 153 (40%) returned

- Four main themes identified related to HH:
  - HCW knowledge and beliefs affected behaviour, which lead to guideline breaches in emergencies and during heavy workload, increased likelihood of non-adherence after interruptions, and variety in knowledge requests:
  - desire to protect self or loved ones led to use of gloves and risk stratification of patients, environment, and types of contact;
  - environment factors, such as access to alcohol hand rub, skin damage, or poor cleaning of equipment viewed as barriers;
  - and discomfort in reminding others about HH

Jang JH et al. 2010: Infect Control Hosp Epidemiol:31, 144-50

# Peer leaders and support



- Student leadership effort that focused on infection control used an appreciative-based approach.
- Discovered a deficit in core knowledge about handhygiene importance among support staff;
- Basic hygiene and health promotion information to employees was provided;
- Link nurse programmes have a similar effect in clinical areas

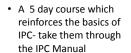


PDIC student (Dr) demonstrating iv

Reid K et al 2011. OJIN; 16 (3)





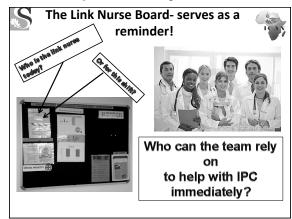


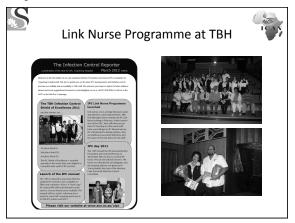
Allows the LN to evaluate the provision and practice for IPC on their wards and offer correct advice.

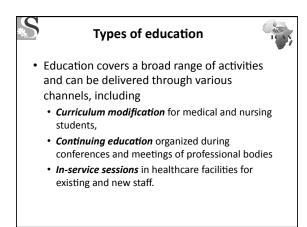


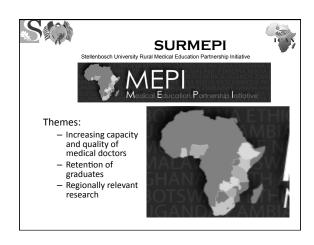


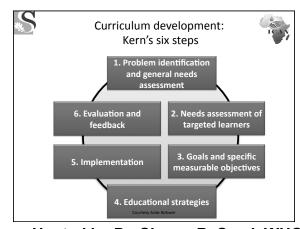
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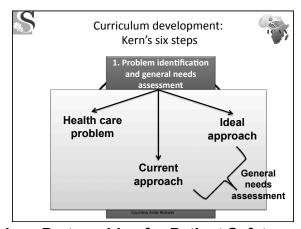






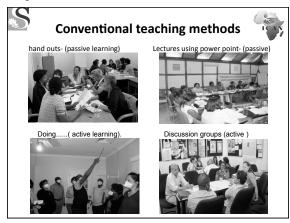


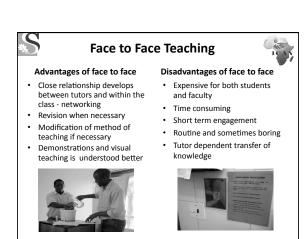


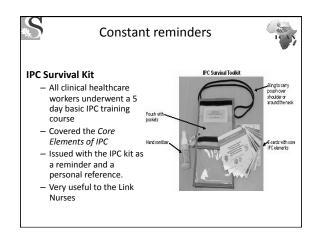


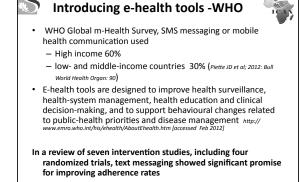
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# Sponsored by the WHO Patie Teaching methods • Methods should be - Innovative - Exciting - Engaging - Unusual - Participatory/ Interactive - Relevant - Culturally sensitive



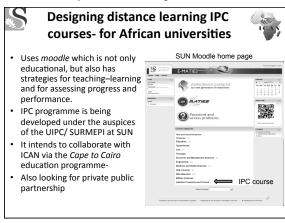


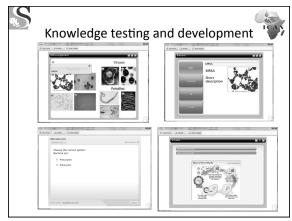


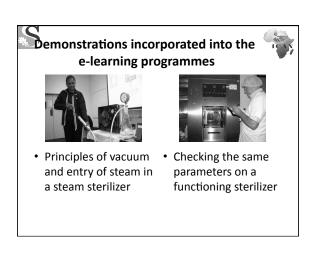


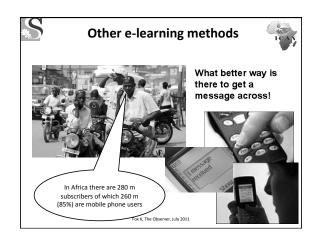


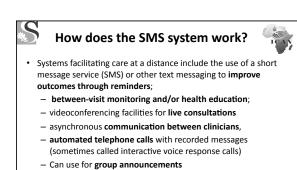
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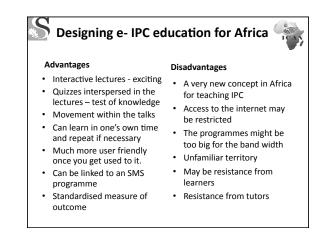






- Running training programmes (Hajo van Beijma, Text to Change, Dutch NGO)

· Given airtime incentive to participants



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# Measuring knowledge improvement

- Pre and post assessment- written
  - Multiple choice questions
  - Pairing of questions and answers
  - True or False
  - Short answers
- · Spots: (2 min each)
  - A child with MDR-TB. Comment on this slide from an IPC point of view.





## Peer Evaluation of TTT lectures Lectures prepared and given by trainers to their peer groups Adult education and have to present innovative means of knowledge transfer Peer evaluated according to set criteria. - Presentation skills - Scientific content Basic Microbiology 15 - Interaction with audience - Answering questions Transmission based 14.3 Risk assessment 14

# Train the Trainer course (SUN)

Pre	Post	Increase in knowledge/speed
50	50	
30	30	NA
30	14.7	15 minutes
31.15	44	13 marks
62.30%	88% (	25.70%
20	20	
13.2	15.8	3 marks (15%)
	50 30 30 31.15 62.30% 20	50 50 30 30 30 14.7 31.15 44 62.30% 88% ( 20 20



# **Clinical Shield of Excellence in IPC**



14.8

- Education in IPC is provided to 2000 employees annually and reinforced via the Link Nurse programme
- Each ward at TBH is evaluated annually using the following criteria

  - Provision for IPC; e.g. hand hygiene,
  - Standard precautions in place;
  - Transmission based precautions in place;
  - Number of staff trained in IPC:
- Link nurse programme Outcome is a reward of proudly
- carrying the shield for a year plus





# What should be incorporated in education for LMI countries



- Good robust guidelines- easy and simple to follow
- Provision- water, hand wash system, alcohol rub
- How to work safely when provisions are not available
- Accountability- Link nurses,
- Surveillance (simple) associated
- · Move towards e-communication





# Finally.....



- "The current approach to educating and training our health care providers has outlived its effectiveness and utility.
- With the growing complexity of health care and the accelerated pace of accumulation of knowledge, significant reform of health professions education is required".
- "For LMI countries we should encourage Multifaceted approaches (which are culturally sensitive to

Educational intervention could be extremely cost effective-Educating healthcare workers to optimal (hand hygiene)

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