# Handwashing behavior change in health facilities

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## **Outline**

- Impact of handwashing in healthcare settings
- Recommended and current practice
- Examples of behavior change approaches and drivers/ barriers





# Impact of handwashing

Handwashing by birth attendants can increase survival rates for newborns by as much as 19%. (Blencowe et al. 2011).







# Impact of poor handwashing

#### **Healthcare-associated infections**

- 15.5% of patients in LMICS experience HCAI (Allegranzi et al. 2011)
- Sepsis leads to 6 million deaths per year (WHO)

#### Maternal and newborn survival

- Handwashing of birth attendants alone up to 19% reduction in mortality, 30% reduction in cord infection and 49% reduction in neonatal tetanus (Blencowe et al. 2011)
- Bacterial infections around the time of childbirth account for about onetenth of maternal deaths globally (Say et al. 2014).

**Quality of care, patient satisfaction and care seeking** (Adekanye et al. 2013; Oyo-lta et al. 2007).

#### Risk to health workers



#### **Recommended Practice**

World Health Organization recommends handwashing with soap or cleaning hands with handrub:

- Before touching a patient
- Before any clean/ aseptic procedure
- After body fluid exposure or risk
- After touching a patient
- After touching patient surroundings (WHO, 2009)

In addition to all critical times for everyone!

Additional recommendations for hand hygiene, such as glove use

#### **Current Practice**

- Average of 61% of health workers do not adhere to WHO – recommended hand hygiene practices (WHO, 2016)
- Handwashing was found to be the least practiced of five IPC behaviors in study of six countries, with handwashing prior to delivery at 37%, with soap available in most facilities (de Graft-Johnson et al, 2017)



Photo: USAID



# Why?

- Multiple complex reasons by context:
  - Access
  - Conscious drivers
  - Unconscious drivers
  - Enabling environment



#### Access

Lack of supplies and place to wash hands form barriers to handwashing.

In LMICS, 39% of health facilities lacked soap for handwashing, and 66% of health facilities lacked soap and piped water (Cronk and Bartram, 2018)

Availability and location of hand hygiene products influence compliance (MCSP, 2017)

66%
OF HEALTH FACILITIES IN LMICS LACK SOAP AND PIPED WATER FOR HANDWASHING.VII



### **Conscious Drivers**

Knowledge- practice gap appears across studies.

Study of Indian nurses showed high knowledge (91%), practice only scored 58% (Guo et al. 2017)

Perception of risk to oneself (Yawson and Hesse 2013, Shobwale et al 2016)

Associated with improved practices: education and feedback, periodic refresher training, multimodal and multi-cadre training



### **Unconscious Drivers**

- Habit and subconscious decision making
- •Caris et al 2017: Nudges increased handrub use at stations with nudges, but not at all stations.
- •Improving convenience of handwashing stations or handrub dispensers (e.g. through workflow assessments);
- •Placement of HW stations provided higher return than volume (Thomas et al 2009).



## **Enabling Environment**

- Facility Level: Leadership & management, staffing, accountability
- Community Level: Demand for behavior
- Policy level: Investment, accountability, strategy



# **Enabling Environment - MCSP Case Study**







# Increasing Motivation and Action through Accountability/Certification Systems

- Standardized, short checklists allow individual staff members to understand their roles and responsibilities and monitor their own performance. They also allow staff to understand which checklist criteria are the most important.
- Certification systems link personal performance to collective performance (pressure/motivation to perform)
- The annual certification process generates data, which can be used for decision making and prioritization at each level of the health system
- Publishing results through media (radio, internet, etc):
  - o increases community awareness and involvement
  - Instills an informal sense of competition among between facilities, managers and districts





## An Example from the MCSP/Haiti Program

WASH criteria	Score
General hygiene	15
Hygiene promotion and communication	10
Water access	20
Excreta management	20
Waste management/wastewate r management	20
Management linen laundry	5
Kitchen and food	5
Treatment of instruments and tools	5



No	Criteres	OUI	NON	Scores	Sur
i	HYGIENE GENERALE DE L'ETABLISSEMENT			/	1
1	Existence d' une structure de gestion qui prend en compte le volet WASH				
	Existence d' un plan d'amelioration de la qualite des services incluant le volet				
2	WASH				
3	Proprete generale de l'etablissement				
4	Existence et affichage d'un plan de nettoyage en publique				
5	Gestion de l' equipement de nettoyage				
6	Campagne de nettoyage reguliere du site incluant l'exterieur immediat du site				
7	Personnel d'entretien oriente sur leur tache et regulierement supervise				
8	Personnel utilise l'equipement de protection personnelle pour le nettoyage				
ii	PROMOTION D'HYGIENE ET COMMUNICATION POUR LE CHANGEMENT DE COM	PORTE	MENT	/	1
1	Existence d'un plan d'affichage IEC				
2	Existence d'un plan d'education a l'hygiene				
3	Seances d'education realisees pour les patients et accompagnateurs				
4	Disponibilite des materiels IEC dans les zones strategiques				
	Formation de tous les personnels en WASH PI-GD				
6	Les ASCP ont realisee des activites de PH				
7	Orientation sur l'utilisation des infrastructures sanitaires				
iii	EAU			/	2
1	Existence d' infrastructure de stokage d' eau				
2	Existence de reservoir de secours				
	Plan de nettoyage et desinfection du systeme hydraulique et ou du systeme de				
3	stokage				
	Plan preventif de maintenance du systeme de distribution d' eau de l'				
4	etablissements	-	+	_	
	volume d' eau disponible au moment de la visite				g
5	Disponibilite d'intrant (HTH) stoque selon les normes				
6	Existence d'un systeme de suivi de la qualite de l'eau				
7	Rapport mensuel de la qualite de l'eau disponible et affiche				
8	Personnel forme en chloration de l'eau				
	Resultat test Chlore residuel au moment de la visite				mg

Haiti National Clean Clinic Scorecard





## Haiti Clean Clinic Scoring System



Certified Clean Clinic - **GUARANTEED**: clinic scores 80%

+ 100% for the management of excreta



Clinic scores 85% + 100% management of excreta



Clinic scores 95% + 100% for the management of excreta + promotion of sanitation and hygiene in its area of intervention



Clinic scores 100% + promotion of sanitation and hygiene with communities in its area of intervention

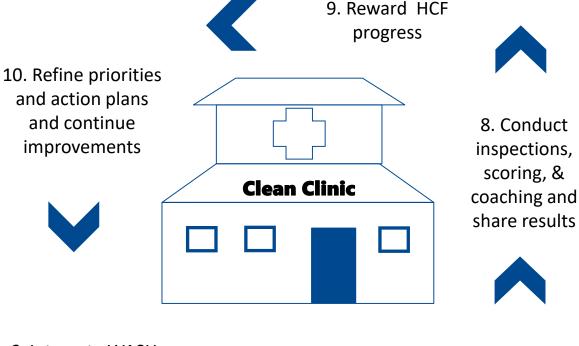




## Clean Clinic Approach (CCA)

(MCSP & Save the Children)

- Conduct health care facility (HCF) assessment
- Establish/refine national minimum WASH standards for HCFs
- Develop program parameters with government
- 4. Train district and HCF leaders
- 5. Introduce CCA programs in target HCFs





6. Integrate WASH actions into annual action/work plans



7. Implement the CCA programs activities

# **Key Considerations**

- •Need for behavior change to respond to drivers in context (knowledge: practice gap)
- Multimodal response
- Enabling environment
- Question of sustained behaviors?



Photo credit: DFID



### **Resources and Thanks**

#### **Recommended Resources:**

- •Phase I Report: WASH for Neonatal and Maternal Sepsis Reduction Study, Maternal Child Survival Program
- •Global Handwashing Partnership 2017 Research Summary

#### Thanks to:

MCSP: Steven Sara and the Phase 1 Report Authors

**GHP Research Summary Authors** 



# Thank you

www.globalhandwashing.org



### **Discussion**

- •What efforts are ongoing?
- •What opportunities are there?
- •What current or potential solutions are there?
- •What barriers exist?
- •What recommendations do you have?