Handwashing with soap:
Why it works and how to do it

Why focus on handwashing with soap?

- Diarrhoea causes 1.4 million preventable child deaths worldwide per year. These deaths could be avoided with access to adequate hygiene, sanitation and water (Prüss-Üstün et al. 2008).
- Around 73% of the mortality due to infectious diarrhoea in this age group occurs in 15 developing countries (Prüss-Üstün et al. 2008).
- HWWS can reduce the incidence of diarrhoea by 47% (Curtis & Cairncross 2003) and respiratory diseases by 23% (Rabie & Curtis 2006).
- Some evidence suggests HWWS by birth attendants and mothers can reduce neonatal mortality caused by infections. Improving HWWS practice also reduces the risk of diarrhoeal diseases and its associated complications among those living with HIV/AIDS.
- Most diarrhoea is caused by human faeces spread from the stool of one person to the mouth of another. Hands act as a vector by which pathogens are transmitted to food, drink, and directly to mouths. Similarly, many infections are transmitted by hands.
- With the potential to save one million lives a year, hygiene promotion has been suggested to be the most cost-effective way of reducing the global infectious disease burden (World Bank 2006).

When should hands be washed with soap?

Handwashing, with or without soap, reduces childhood diarrhoea. Recent evidence suggests that handwashing with water alone might be seen as a stepping stone: “handwashing with water is good; handwashing with soap is better” (Luby et al. 2011). Handwashing with soap is seldom practised at times when it could have the most significant public health impact. To interrupt disease transmission, HWWS should be promoted at critical times:

- After contact with faeces, e.g. after going to the toilet or cleaning a child’s bottom.
- Before handling food or eating, especially before feeding a child.

The ‘f-diagram above shows faecal-oral transmission routes. The long red bar represents sanitation barriers, the short red bar at the top of the diagram represents water, and the short red bar at the bottom represents hygiene.
Whose behaviour should change?

- Mothers and caregivers are the usual target of behaviour change campaigns because their actions have the greatest implications for a child’s health.
- Schoolchildren are another common target group. Handwashing with soap can have a positive impact on a child’s education by reducing school absenteeism (Bowen et al. 2007).
- Schoolchildren can also be used as an instrument of change in their household. To be effective, school programmes need to have adequate handwashing facilities and provide soap.

Behaviour change: Why it’s difficult and how to do it

- **Changing behaviour has never been easy:** It is determined by many factors, including habits and motivations.
- **Raising germ awareness is not enough:** Hygiene promotion campaigns have traditionally focussed on educating people about germs and the value of soap. Evidence suggests that such approaches may raise germ awareness, but are unlikely to lead to substantial behaviour change.
- **A “bottom-up” approach is necessary:** An understanding of the current habits, motivations and factors constraining handwashing practice are essential. Formative research conducted by Curtis and colleagues (2009) in 11 developing countries has shown that key triggers for handwashing with soap are unrelated to health; people are typically motivated by feelings of disgust (due to presence of visible dirt or other contamination of their hands), affiliation (desire to conform and belong), nurture (desire to care for children) and comfort (desire to remove sticky/smelly substances from hands). Other factors affecting handwashing behaviour include how habitual the practice is, environmental constraints such as lack of water, and access to handwashing facilities.
- **Tailor-made messages are needed:** Appropriate, effective, and context-specific behaviour change messages need to be developed for the target population.
- **Simple messages work:** Research suggests that delivering single messages is easier and can have a bigger impact than multiple behaviour change approaches.
How to promote handwashing with soap

- Conduct formative research to understand the interests, needs, opportunities and motivations of your target group – one size does not fit all. Consider using a range of methods to investigate, e.g. interviews, questionnaires and focus group discussions.

Keep messages simple and tailored to the needs and motivations of your target group.

*E.g. Elicit feelings of DISGUST*

**Make people feel everyone is doing it - SOCIAL NORM**

**Remind mothers to teach children good manners - NURTURE**

Could depict contamination or use graphic images, e.g. use a *glow germ demo kit*

Could also include *pledging* in public, giving households *badges*: “this is a handwashing household”

Headteacher could send home *letter* asking mothers to support a school campaign to ingrain habits early

- Visit [www.choosesoap.org](http://www.choosesoap.org) for more details on the posters above and the rest of the Choose Soap handwashing toolkit, including information on family pledging, an animated film and village signage. The activities can be carried out in households, schools, communities and by the mass media.

- Minimise environmental barriers by ensuring convenient access to water and soap, e.g. by providing handwashing stations and cues such as soap dishes. Consider acceptability of design.

- Monitor campaign for effectiveness. Pay particular attention if the campaign is integrated in other programmes. Are stakeholders and key players on board?
Case Studies

• Ghana: A hygiene promotion success story
  • Multiple channels used to communicate message: Mass media (TV and radio ads), billboards, materials for district programme, road shows
  • Impact: 71% know TV ad (69% can sing song), reported HWWS increased by 13% after defecation and by 41% before eating

• Global Handwashing Day: A fast-growing campaign
  • GHD was created by the Global Public-Private Partnership for Handwashing in 2008
  • Each year, over 200 million people are involved in celebrations in over 100 countries around the world
  • Bangladesh made history on GHD in 2009 when 52,970 schoolchildren washed their hands with soap and water

Want to know more?

• Choose Soap handwashing toolkit: www.choosesoap.org
• Global Handwashing Day: www.globalhandwashingday.org

These guidelines were written by Katie Greenland, Research Fellow at the Hygiene Centre, and edited by Guy Collender, Policy and Communications Officer at SHARE. The Hygiene Centre at LSHTM is devoted to developing a better understanding of hygiene and sanitation practices to inform public health policy. SHARE is a research consortium led by LSHTM and funded by the UK’s Department for International Development. SHARE synthesises existing knowledge and generates new knowledge for improved policy and practice in the sanitation and hygiene sectors.