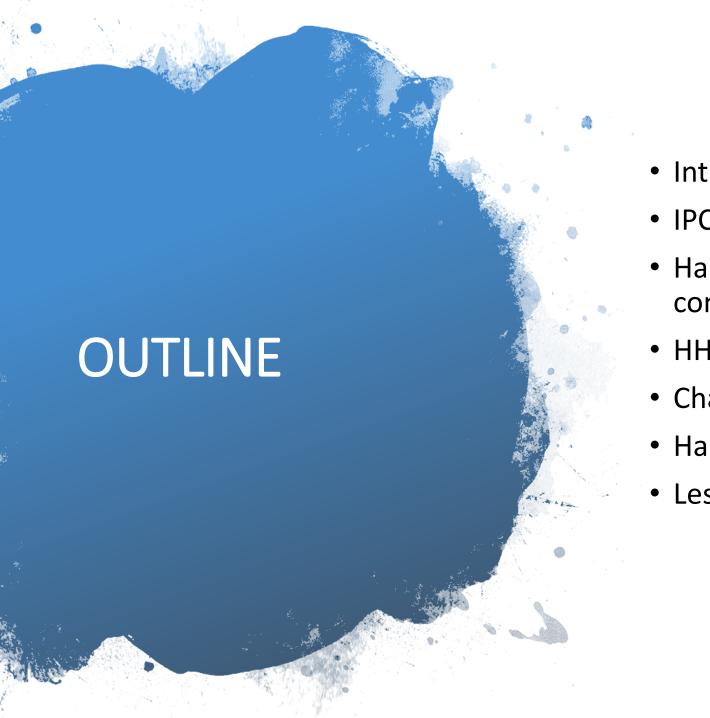


Perspectives of Hand Hygiene practices during Covid 19 Buyiswa Lizzie Mazibuko- ICAN

Preventing and controlling transmission of COVID 19 infection

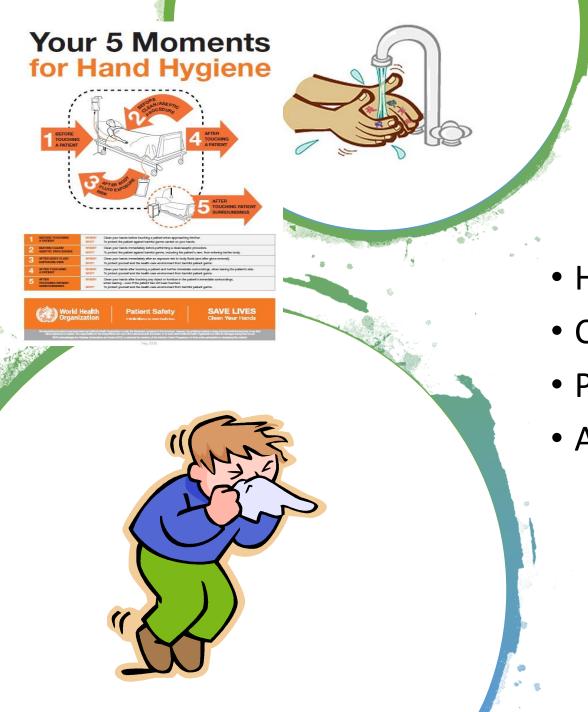


- Introduction
- IPC Bundle
- Hand transmission dynamics in the context of Covid19
- HH in the Community
- Challenges
- Hand hygiene for All Global Initiative
- Lessons learnt



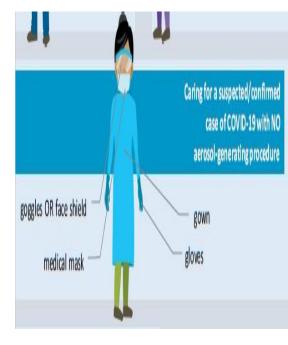
Introduction

- Hand hygiene, use of PPE and cleaning and disinfection of medical equipment and environment — are some of the critical IPC practices at the forefront of COVID-19
- Essential to protect both patients and health workers from infection.
- I perceive Infection Control awareness in Africa has seemingly improved because of fear of transmission of Covid-19 to self
- This has seen an increase in the uptake and use of ABHR and hand washing soap
- The role IPC plays in HCFs and Communities has been strengthened
- Multiple partners supporting training
- platforms used in Africa e.g ACDC, AU, ICAN Webinars (English and French), RTSL



IPC Bundle for Covid-19

- Hand hygiene
- Cough etiquette
- Physical distancing
- Appropriate use of PPE





Methods of HH practiced in Africa

- Use of ABHR
- Handwashing with soap and water
- Handwashing using chlorine

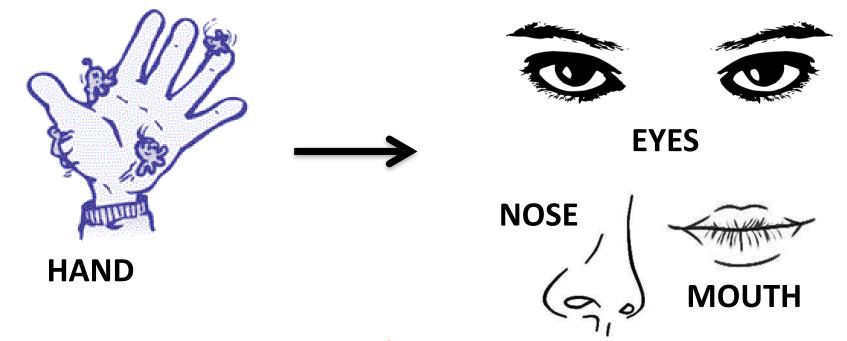
 HH Products must be effective (meet required standards), skin friendly and accepted by the HCWs / Community



Hand hygiene transmission dynamics in the context of Covid 19

Why perform HH?

Hand hygiene reduces the transmission of microorganisms to self and others.



Do not touch your face (eyes, nose, mouth <u>before</u> performing HH if you have to touch it inevitaby but during this COVID-19 avoid touching your face.

-Rings and bracelets increase microbial count on hands.

-Rings also increase the risk of torn or pierced gloves.

-Jewellery should not be worn during patient care (Longtin, Sax, Allegranzi, Schneider, & Pittet, 2011).

- In an instance where a bracelet may not be removed due to religious reasons, the bracelet may be pushed as high as possible above the wrist before performing hand hygiene.



Skin integrity:

- -The condition of the hands can influence the effectiveness of hand hygiene, and proper skin care is essential for infection control (Bissett, 2007).
- Skin cracks, dermatitis, or cuts can trap bacteria and may place patients at an increased risk (CDC, 2007).

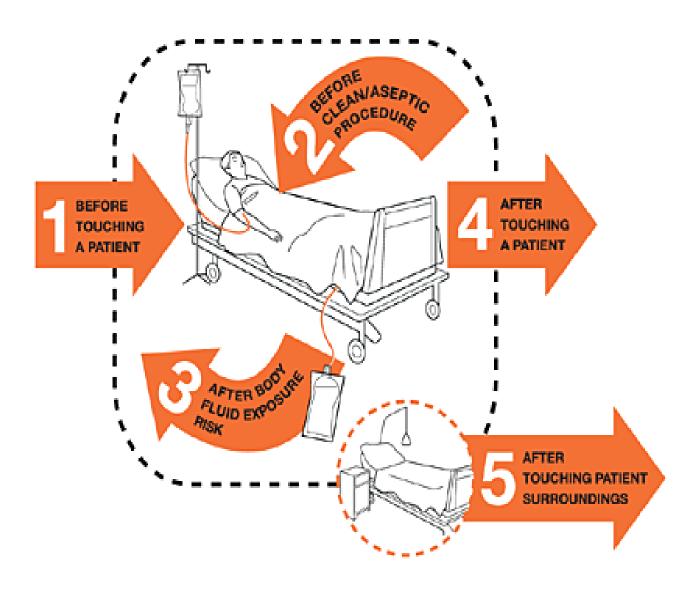


- Artificial nails and nail extenders:
 Artificial nails and nail extenders
 increase the viral load of bacteria up
 to nine times compared with bacteria
 found on hands.
- Nail length: Nails should be a maximum of 1/4-inch long and should not extend past the end of the finger (Patrick & Van Wicklin, 2012).
- Nail polish: Nail polish should be freshly applied and be free from chips or cracks

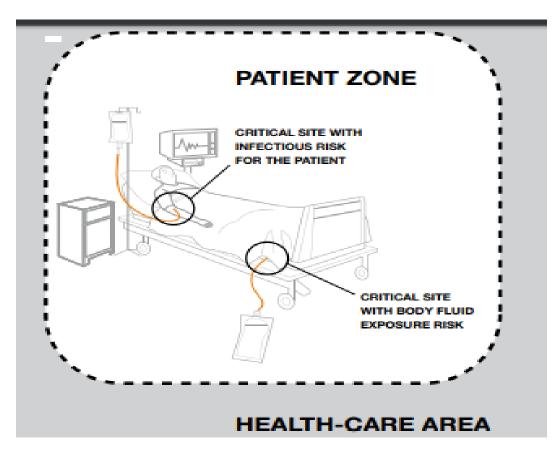


- Water temperature and products:
- -Warm water removes less protective oils than hot water, whereas hot water increases the likelihood of skin damage (WHO, 2009a).
- -To prevent contamination, products must be dispensed in a disposable pump container that is not topped up.
- An adequate amount of soap is required to dissolve fatty materials and oils from hands as water alone is not sufficient to clean soiled hands (WHO, 2009a).

Five moments For hand hygiene



Patient Zone



- Patient +surfaces and items that are temporarily and exclusively dedicated to him
- Two critical sites
 - Clean site
 - Body fluid
- Patient flora predominately contaminates the zone
- Patient zone

Healthcare Area

- Health care area: it contains all surfaces in the healthcare setting outside the patient zone of patient X.
- It includes:
- other patients and their patient zones and the wider healthcare facility environment.
- The healthcare area is characterized by the presence of various and numerous microbial species, including multi-resistant germs.

Definition of "point-of-care" (1)

- Point-of-care refers to the place where three elements occur together: the patient, the health worker, and care or treatment involving patient contact(within the patient zone)
- The concept embraces the need to perform hand hygiene at recommended moments exactly where care delivery takes place
- This requires that a hand hygiene product (e.g. alcohol-based handrub, if available) be easily accessible and as close as possible (e.g. within arm's reach), where patient care or treatment is taking place. Point-of-care products should be accessible without having to leave the patient zone

How to Handrub Technique



- Pour ABHR into a cupped hand
- Dip finger tips in cupped hand
- Pour from one hand to another
- Dip finger tips into cupped hand (2)
- Palm to palm
- Web of fingers
- Back of hands
- Cupped hands
- Thumbs
- Rub till dry

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How to Handwash?

WASH HANDS WHEN VISIBLY SOILED! OTHERWISE, USE HANDRUB





Wet hands with water;



Apply enough soap to cover all hand surfaces;



Rub hands palm to palm;



Right palm over left dorsum with interlaced fingers and vice versa;



Palm to palm with fingers interlaced;



Backs of fingers to opposing palms with fingers interlocked;



Rotational rubbing of left thumb clasped in right palm and vice versa;



Rotational rubbing, backwards and forwards with clasped fingers of right hand in left palm and vice versa;



Rinse hands with water;



Dry hands thoroughly with a single use towel;



Use towel to turn off faucet;



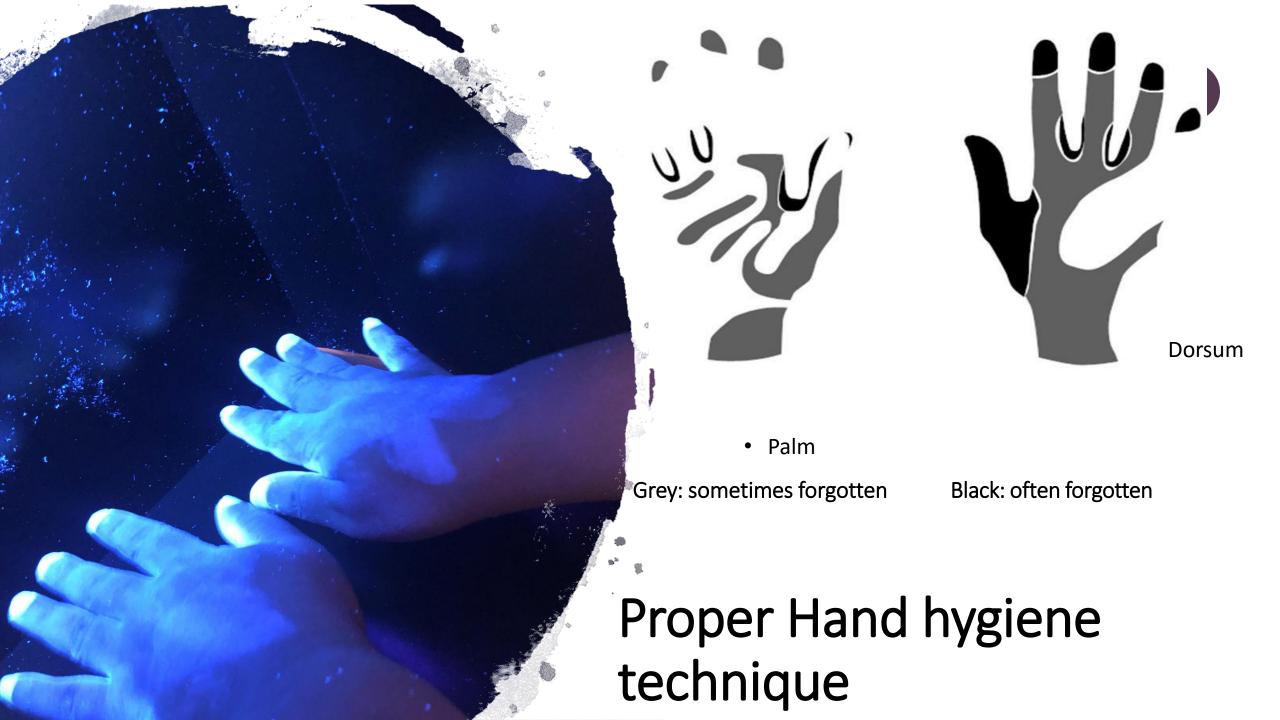
Your hands are now safe.



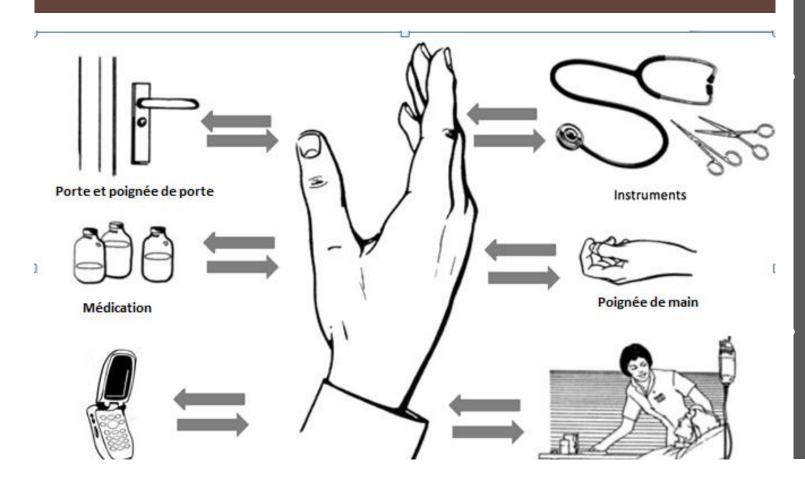
Behaviour change strategies

- Use of Checklite
- Use of SureWash
- HAI audits
- Use of HH Awareness videospoint of care videos
- Refresher trainings e.g
 Cameroon trainings





Hand Hygiene – What is happening in Africa?



Intensified Hand hygiene trainings amongst HCWs

Countries have built capacity to manufacture ABHR using WHO formulations

Despite the availability and increased uptake of ABHR in care activities, there is no documented evidence to suggest an increase in HH Compliance rates amongst HCWs

Confusion on when to use soap or ABHR

Challenges:

- Understanding of the WHO 5 Moments for hand hygiene
- Confusion between patient zone and health care area
- Definition of Point of care
- Adhering to the proper HH technique
- Applying ABHR on gloves –the effects
- Behaviour change- inertia

Caveats regarding washing, decontaminating and reprocessing gloves – WHO Guidelines on Hand Hygiene, section 23.1.6

- Any practice of glove washing, decontamination or reprocessing is not recommended as it may damage the material integrity and jeopardize the glove's protective function
- Some evidence exists that cleansing latex-gloved hands using an alcohol-based handrub solution is effective in removing micro-organisms and shows increasing contamination rates of hands only after 9–10 cycles of cleansing.
- However, cleansing plastic-gloved hands with an ABHR leads to early dissolving of the plastic material.
- It should be noted that this process may be applied only in the framework of contact precautions implementation and as long as gloves are not soiled with blood and other body fluids.

N.B No recommendation exists concerning the washing and reuse of gloves, nor the washing or decontamination of gloved hands followed by reuse on another patient





Strengthening hand hygiene practices in the community

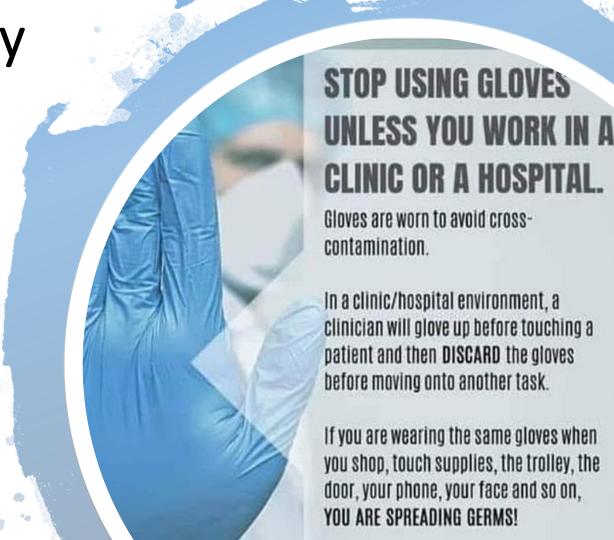
- Running water/alternative systems
- Training in good hand hygiene technique
- Use of Alcohol Based Hand Rub OR use of tippy taps at the entrance of households





Glove use in the community

- Initially community was seen in supermarkets with gloved hands
- Increased awareness on trusting HH and NO USE OF GLOVES IN COMMUNITY
- -Coronavirus can survive in surgical gloves for 8hours



It's better not to wear gloves at all.

wash your hands after being to the shor or having completed a task.

Promotion of HH in communities

- Encourage family members and visitors to do HH at home
- Consider the use of water and soap or alcohol-based hand rub

When?

- ☐ Before and after cooking food
- ☐ Before and after eating
- ☐ After cleaning
- ☐ After handling of waste
- ☐ After using toilet
- ☐ After blowing, touching the nose, sneezing, coughing



Challenges for HH in Communities

- Water shedding
- No clean sources of water
- ABHR Costs- sustainability issues i.e a 100ml pocket sanitizer costs(USD)
- -Cameroon (\$2-\$3)
- -Nigeria (\$2)
- -Sierra Leone (\$2.80)
- -Zimbabwe (\$3-\$5)
- Some hand disinfection products used at entrance of supermarkets causing skin reactions, others too dry, some no name....

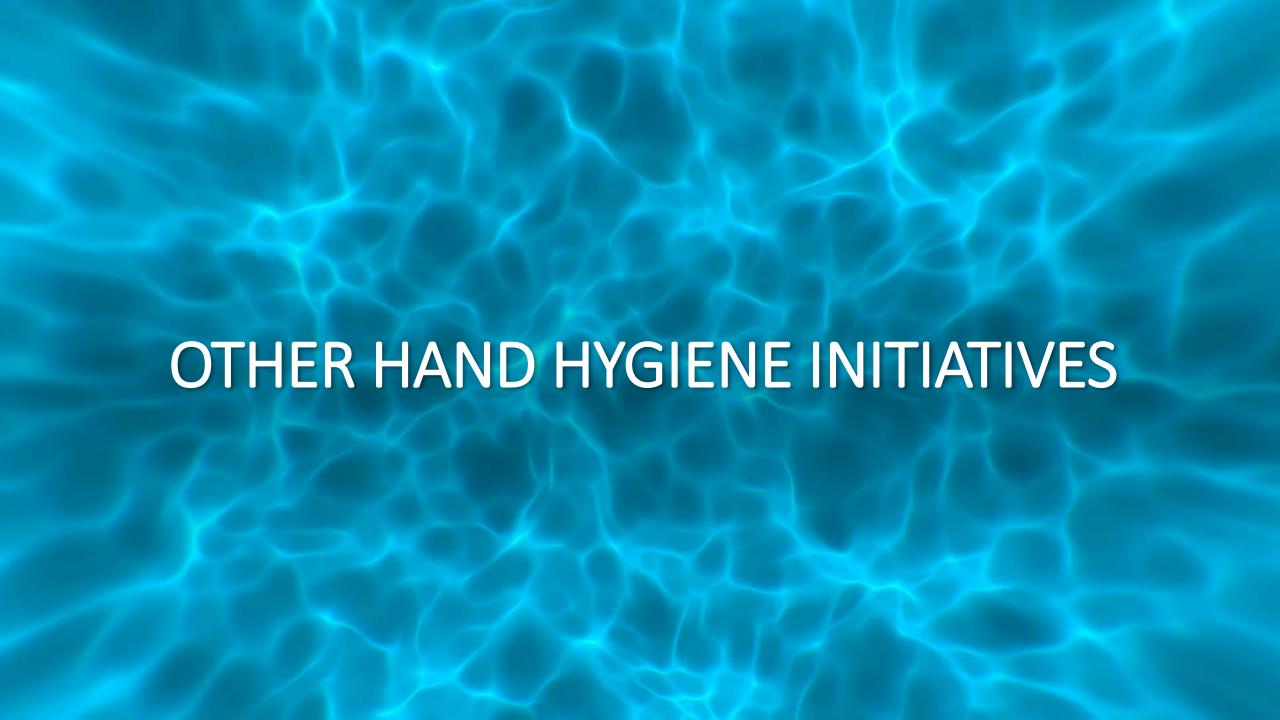
Challenges for HH in Communities (2)

- Shortage of ABHR in supermarkets
- Unverified messages from social media platforms

re noticed that har. are out of stock in narkets and where nable, the prices have more an tripped. A sanitizer that used to cost 250 is now going for 1500. Worry not. Here is a solution. You can make your own hand sanitizers by mixing glycerine with methylated spirit at the ratio of 1:3. One unit of glycerine with three units of methylated spirit. Eg 10 ml of glycerine should be mixed with 30 ml of Methylated spirit. Shake the mixture thoroughly and pack in whatever dispensing container you have and carry with ou in your bag. In fact for those of with school going children pack of for them.

w and Thank me later.

16:00



Hand Hygiene for All

A whole of society approach to achieving universal hand hygiene and stopping the spread of COVID-19

Hand hygiene for all global initiative

- aims to implement WHO's global recommendations on hand hygiene to prevent and control the COVID-19 pandemic and work to ensure lasting infrastructure and behavior.
- WHO and UNICEF-led initiative calls
- -for countries to lay out comprehensive roadmaps that bridge together national COVID-19 preparedness and response plans with mid- and long-term national development plans to ensure hand hygiene is a mainstay beyond the pandemic, as part of infection prevention and control (IPC) and water, sanitation and hygiene (WASH) efforts
- -proposes a framework for coordination and collaboration among global and regional partners, with the primary aim of supporting and growing country-led efforts and investments.

it builds upon and supports existing programmes such as the WHO SAVE LIVES: Clean Your Hands global campaign and the WASH in health care facilities initiatives.

The Global Initiative 3 stages

- Responding to the immediate pandemic,
- Rebuilding infrastructure and services, and
- Reimagining hand hygiene in society



Get involved

- Advocate globally and locally including with civil society and multistakeholder groups
- **Include** hand hygiene progress updates on access, behaviour, country case studies in reports, meetings, events.
- Commit to increasing and streamlining hand hygiene within your organization and programming.
- **Share** joint statement, public brief, and key messages on social media channels.

Lessons Learnt...

An overburdened health system can be overburdened with training

- Training workshops on their own are not sufficient to achieve good IPC practice: need to emphasis on behaviour change strategies
- Multiple partners supporting training, no coordination and lack of standard message resulting in mixed messages and confusion in practices



Recommendations

- Need to scale up co-ordinated IPC trainings with mentorship for HH observers/monitors
- Understanding of Hand Hygiene with emphasis on:
- -WHO 5 Moments (reduce transmission to pts and HCWs)
- -Hand rubbing technique
- -hand washing technique



And finally...

- What if the Coronavirus looked like this?
- Would YOU change YOUR behaviour towards HH?





Acknowledgements

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