

MAKE SAFE



from Dread Diseases

Eliminate Deadly Health Hazards

 HyperHygiene

Hands for Africa



It starts with hands, like every major health issue. Hands that should be washed, careful and clean, free from germs that can cause infection. Like a surgeon does before an operation. Like a mother, before cooking the evening meal.

Hands are critical, because Ebola is a contact disease. The slightest touch of anything infected and the disease takes hold. It's that virulent, that dangerous.

The Ebola Handshake

Because of that, Ebola even has its own handshake, its own non-greeting. Friends make a big show of holding their hands out – and then NOT CLASPING in trust and friendship. Closer relationships have NON-HUGS, NON-KISSES and other gestures that emphasise no contact.

West Africa is a hands-on region and holding back is killing these people. But contact – even momentary - is killing them too. So in Sierra Leone, Liberia, Nigeria, Guinea and Mali, they've learned not to. Hands off and live – a terrible lesson among such close families.



But hands have a special significance too. Though the disease is deadly and Ebola's toll is frightful, there are miracles in which people survive.



We shall overcome

Their hands become a symbol that others can too. On big display boards set up by *Médecins Sans Frontières* at Ebola treatment centres throughout West Africa, brightly coloured palm-prints of patients who've reached the all-clear proclaim their victory over death.

The medical teams too are another kind of hands. Selfless helping hand expertise by professionals from more than twenty countries.

Back home, more hands send money, equipment, food and medicines. Others dig deep into pockets around the world, funding clothes, buildings, vehicles and specialised care.

Helping hands, worldwide

We should put our own hands together to applaud them. A big hand for the biggest humanitarian gesture in the world right now. They deserve it.

Alongside support for all the other vital issues. Other diseases: TB, cholera, malaria, diabetes, AIDS. Other suffering: war, famine, drought.

Because, quite rightly, it ends with hands too. Stop, halt, enough already.

Too many people have suffered too long for hardship to go any further.



3 Ways to Stop Killers

Against a killer like Ebola, ANY kind of hygiene is better than nothing.

Some methods though, are definitely superior to others. But in the war against germs, every procedure is good. Especially in faraway places, where all there is to fight with is soap and water.

Sanitise

Even against Ebola, a proper clean with soap and water removes 90% of germs. For hands, that means a proper scrub of course, going at it for at least thirty seconds – or with alcohol gel if there's no water.



It's the same with all surfaces. Tables, counters, floors. If before you started there were a million germs to a square

inch – harmful pathogens, viruses or bacteria – you've now pulled them down to 100,000, a reduction of 90%.



Professionals call this a Sterility Assurance Level of Log 1. Or if you scrub for five minutes or so, like hospital operating-room staff do, you get rid of 99% - a Sterility Assurance Level of Log 2.

But not all germs are gone – fatal against Ebola. Remaining viruses and bacteria can divide and multiply. Warm, moist conditions accelerate this, the germs will be racing to replace themselves. In less than two hours, they could be back to full strength.

Disinfect

Soap and water doesn't kill germs. But there are plenty of things that do, again some better than others. The action of a disinfectant is to kill germs, usually by chemical action such as with alcohol or formaldehyde.

More effective is the wide range of oxidising agents, familiar to most of us as bleach. These are all powerful and often hazardous substances, effective at killing germs by destroying their cell structure, but often with side effects that can damage surfaces or cause illness to the user.

Depending on the strength and preparation of the stuff you're using, you'll reduce germ levels – the number of colony forming units (CFUs) of viruses or bacteria – by anything from 99.9% – 99.999%.

That's a Sterility Assurance Level from Log 3 to Log 5.



Ultra violet light is a low-effort, almost instant alternative, very effective at killing germs in direct line of sight, attacking their cell DNA and 99.999% effective.

Sterilise

This is the full Monty, complete annihilation of germs altogether – all bacteria, all viruses – including deadly Ebola. The most effective sterilising agents are all powerful oxidisers in various strengths and combinations.

Effectively they reduce the million CFUs down to just one, or 99.9999% - as it is nearly impossible to prove that something so microscopically small is totally removed – which puts us at a Sterility Assurance Level of Log 6.

The big difference is delivery. Most oxidisers are only available as hard surface cleaners or surfactants. They kill the germs all right, but only on flat surfaces. But any room however is almost 80% air space. For a steriliser to work properly, the oxidiser must be airborne and fine enough to attack microscopic pathogens as they float freely throughout the room.



Only one method successfully propels the oxidiser to disperse far and finely enough, in a low non-hazardous 6% concentration that leaves no residue – ionised hydrogen peroxide generated by our all-automatic mobile Hypersteriliser.

Colloidal silver boosts this performance still further, achieving a totally sterile room throughout the entire airspace - as well as on all surfaces, under and behind objects, and deep into any recesses. The dry mist decomposes to just oxygen and water, which evaporates – safe for sensitive electrical installations.

The Hypersteriliser and Ebola

The active preparation in our Hypersteriliser system is a solution called S010, a potent combination of hydrogen peroxide and silver. It is used undiluted on previously cleaned surfaces, to kill 99.9999% of all pathogens, particularly bacteria, viruses, yeasts and fungi.



Meets CDC and EPA Guidances

In the war against Ebola, SO10 satisfies the stringent demands of the US Centers for Disease Control and Prevention (CDC) Guidance for Environmental Infection Control in Hospitals for Ebola Virus. It is also registered with the US Environmental Protection Agency (EPA) as meeting criteria specifically for use against the Ebola virus, Reg No 84526-1.

Fast, low cost, easy

Six Hypersteriliser dispersal units have already been shipped to Nigeria to fight the Ebola outbreak – a vital tactical choice. The Hypersteriliser system is low cost and completely mobile, ready for action in minutes using the simplest of instructions. In less than an hour, depending on the size of the room, the environment is completely sterilised and ready for use – faster and less

complicated than other procedures.

In just minutes, it does what hours of spraying and wiping will do AND sterilises the total room space.

Protects hygiene chain

It's not the answer to Ebola. But it is the answer to hospitals and health facilities hard-pressed to ensure the highest hygiene levels everywhere.

Frontline medics wear personal protective equipment for direct handling of patients – safe as long as hygiene protection is not breached.

Zero germ threshold

The Hypersteriliser does the same thing for care areas – reduces the germ threshold to zero so that staff and medics are safe as long as direct contact is avoided.

The Hypersteriliser System

Total Room Sterilisation

We wish all medical teams and patients the very best of luck and good fortune in combating this terrible disease.





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