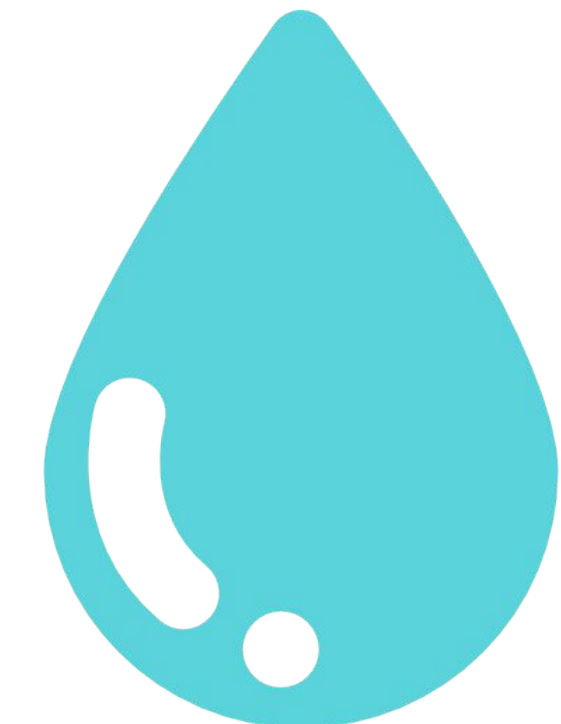


# ASEP™: Safe Hands



## The Story of Semmelweis



- Viennese obstetrician believed doctors were to blame for puerperal fever
- He monitored handwashing and scrubbing with a nail brush.
- The death rate dropped from 20% to 1%

## Our Solution

- ASEP is a device designed to make sure everybody washes their hands before seeing patients
- It attaches to hand-gel dispensers acting like a switch and allowing them to enter the patient's room or onto the ward



£1,000,000,000

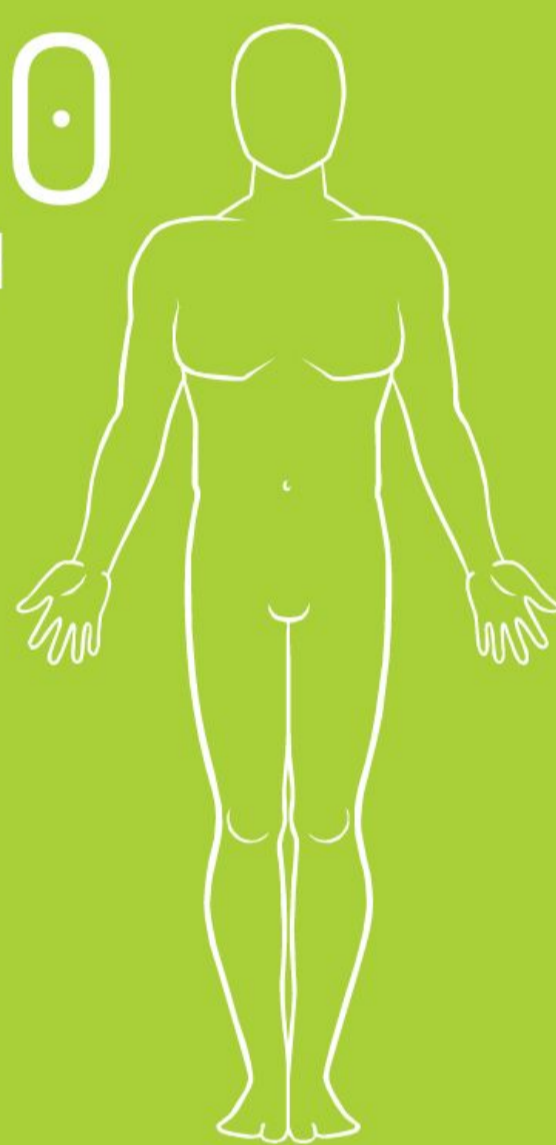
The amount spent on hospital acquired infections each year

300,000

Patients acquire an infection whilst in hospital

9000

Deaths each year



- WHO has introduced a zero tolerance approach.
- Staff wash their hands half to a third as much as they should.
- Our priorities have become distorted, focussing on fear and unrealistic infections.



Option 1: A motion sensor can detect when the gel is used, providing generic data about when usage.

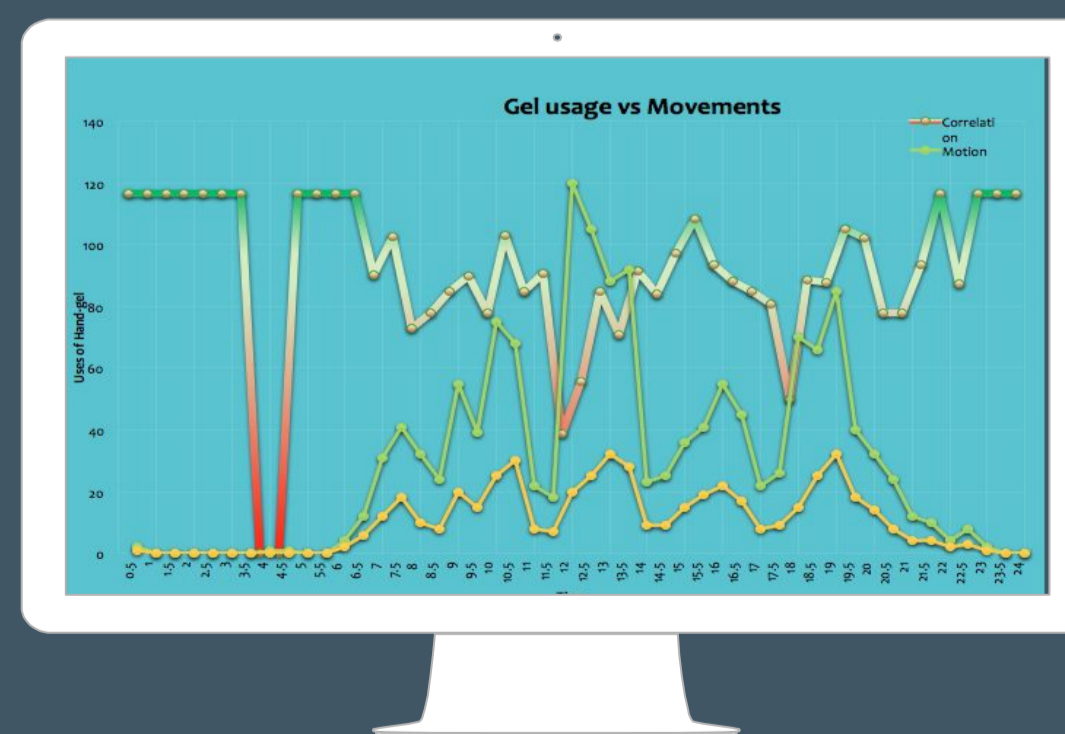
Option 2: Connecting hand gel dispenser to ID badges, monitoring individual handgel usage. Those not using the gel enter behavioural change programmes.



## Our Evidence: Newcastle upon Tyne Hospitals, UK

Observational audit at two hospitals, monitoring who used the hand-gels when entering and leaving the wards

	Doctor	Nurse	Auxiliary Staff	Total
Washed	104	237	184	49.6%
Didn't wash	126	231	176	50.4%



Data Analysis: Linking this data to a computer, provides statistics about when the gel is used, who is using it, and when the dispenser need to be refilled.

## About the Creator

Jonathan Mayes is a 5th year medical student at Newcastle University with an interest in healthcare and technology. He has been working with the RiseUp Entrepreneurial Team to develop this idea. Funding has been received from Innovate UK and RiseUp Start-Up Awards.

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