## handwashingforlife®

## A 10-Point

**Compelling lessons continue with little effect on handwashing compliance** 

430 BCE

For example:

700 BCE

Trivialization of handwashing is as old as

civilization. "People died from a lot of things

however, gives us many examples of epidemics

facilitated by poor handwashing. Empires have

been destroyed by infectious disease, killing

many more than the wars around the world.

but not from poor handwashing..." History,

that were caused by diseases that can be

1755-1760

1847

**Handwashing** 

was proved to be

effective in preventing **infection.** Dr. Ignatz Semmelweis, in 1847, demonstrated that "childbed fever" was contaminated well contagious and that its pump on Broad Street incidence could be reduced from 13% to 2% or less by enforcing appropriate precursor of today's

1854

**The London Cholera** epidemic of 1854 epidemiology. The outbreak, largely confined to Soho. was traced to a by Dr. John Snow, who later mapped the results. The earliest handwashing behavior Weekly Morbidity & by medical caregivers. Mortality Reports, the Weekly Returns of Births and Deaths.

endorsed Snow's

conclusions and germ

foundation for modern

theory becomes the

public health.

1906-1922

"Typhoid Mary" demonstrated gave birth to modern the risk of ill food workers by causing two strings of Salmonella infections in New York between 1906 and 1922. This also raised awareness of the asymptomatic carrier. At least 47 infections and three deaths were traced to Mary Mallon, who in the second half of her career cooked for, and infected, a maternity hospital. However, inspectors focus on the cleanliness of floors, walls and ceilings.

1945-1999

is still limited.

New bacterial risks have Jack-in-the-Box been recognized since World outbreak (1992) War II; at the same time creates a new our culture has been awareness of risk restaurantized. The eating and the importance out trend exploded — in of temperature 1970, Americans spent control. More than 34% of their food dollar eating out; by 1995 this E. coli infections and had grown to 46%. In four children died. The 1958, six major foodfoodservice industry borne pathogens were recognizes the need for food safety recognized; by 1999, the CDC acknowledged training. Awareness of the at-risk 28 major foodborne pathogens and over population grows, 200 diseases that can be but handwashing transmitted through food. compliance remains Food safety interventions low. HACCP begins focus on cooking and to be talked about. cooling. The Centers for Disease Control state. 'Handwashing is the single most important means of preventing the spread of infection," but awareness

1992

**Creation of PulseNet MarlerClark and** (1996) resulted in scientists perform DNA fingerprinting to isolate the source of Increased knowledge again does little to behavior. Positive identification of outbreak organisms and their source specific foodservice establishments and is now possible.

1996

**Viruses join the** the legal principle bacterial enemies: Hepatitis A virus and a newly identified viral pathogen, Norwalk **(\$15.6 million in the virus, later renamed** norovirus – which is and brand damage. 66% of the foodborne illness in the US. CDC's Vessel Sanitation provides a wealth of understanding from data, helping to the cruise industry. The FDA emphasizes **Active Managerial** Control.

hundreds of millions.

Today

**New research** presents compelling data on preventing foodservice norovirus outbreaks through handwashing and hand sanitizing. July, tagged as the agent of 2007, Dr. C.L. Moe of **Emory University and** Lee-Ann Jaykus Ph.D. at North Carolina State publish new research understand the risk of norovirus.

> Will findings motivate foodservice management to raise hand hygiene as an operational priority?

 Ancient Athens was decimated by a plague during the Peloponnesian War in 430 BCE, described by Thucydides, the earliest historian (who survived the plague itself). Pericles, the orator and architect of the Parthenon. was a victim. Recent DNA examination of victims from a mass grave suggests they died of typhus – that is, Salmonella typhi.

 Earlier, the Assyrian siege of Jerusalem (circa 700 BCE) may have been dropped due to cholera.

 George Washington suffered from "the bloody flux [diarrhea]" - possibly shigella - during his service on General Braddock's march to Fort Duquesne (now Pittsburgh, PA) during the French and Indian War – the British (and Washington) lost.

more people looking of strict liability for outbreaks. CDC defines risk in terms of dollars **Jack-in-the-Box** 500 people developed the outbreak. settlement alone) Operators awaken. change handwashing Industry responds with advances in temperature control and increased insurance. Lost opportunity due to brand damage is individual ill workers - estimated in

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