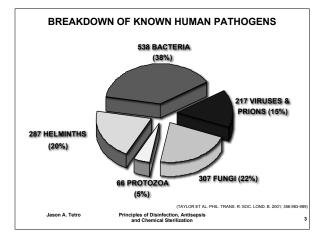
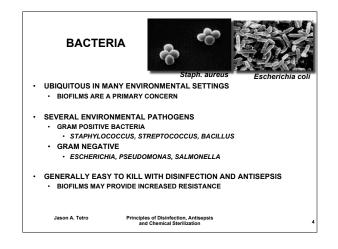
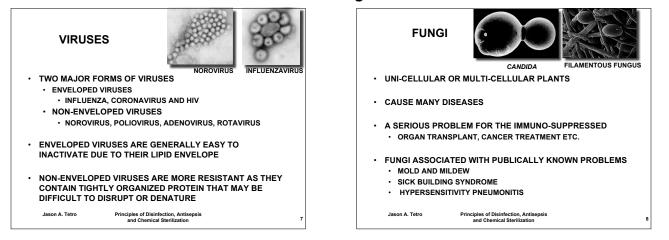
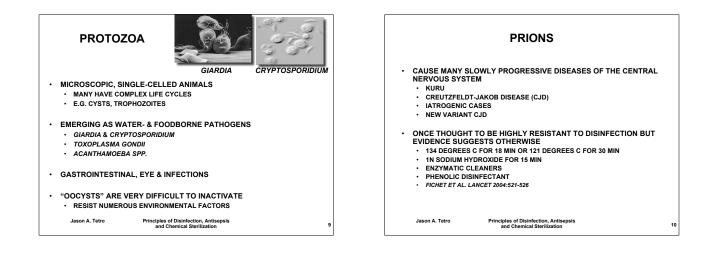
CURRENT STATUS OF PATHOGENS **PRINCIPLES OF DISINFECTION, ANTISEPSIS** OVER 1.400 KNOWN PATHOGENS FOR HUMANS AND CHEMICAL STERILIZATION: SOME 200 PATHOGENS ARE STILL UNCHARACTERIZED CONCEPTS AND CONTROVERSIES IN THE LAST 30 YEARS, SOME 300 NEW AND EMERGING INFECTIOUS DISEASE EVENTS HAVE OCCURRED MANY HAVE HAD IMPLICATIONS ON A GLOBAL SCALE Jason A. Tetro SARS Centre for Research on Environmental Microbiology (CREM) AVIAN INFLUENZA University of Ottawa, Ottawa, ON C. DIFFICILE VRE MDR/XDR TB Hosted by Paul Webber paul@webbertraining.com Jason A. Tetro Principles of Disinfection, Antisepsis and Chemical Sterilization www.webbertraining.com

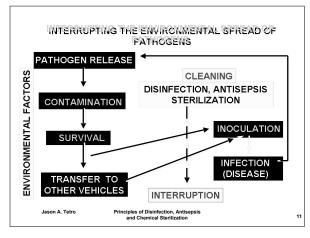


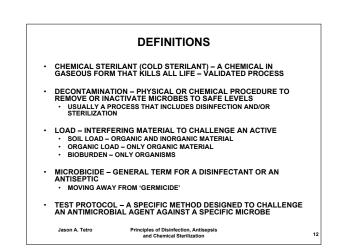


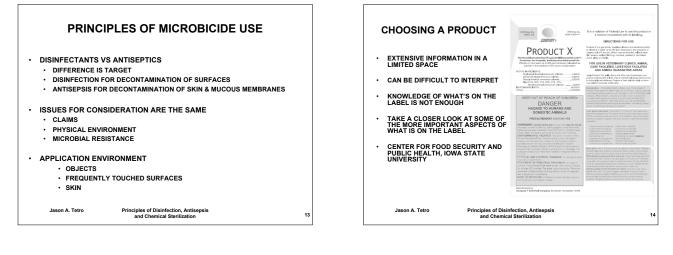
Spore **MYCOBACTERIA BACTERIAL SPORES** Racterial cell with spo PRODUCED BY CERTAIN TYPES OF GRAM-POSITIVE CAUSE DISEASES SUCH AS TUBERCULOSIS BACTERIA (BACILLUS, CLOSTRIDIUM) MANY NON-TUBERCULOUS (ENVIRONMENTAL) TYPES CAUSE DISEASE IN THE IMMUNO-SUPPRESSED SPORES SURVIVE WELL IN THE ENVIRONMENT ABLE TO WITHSTAND pH, HEAT, ACID AND OTHER STRESSORS MANY ARE SLOW & HARD TO GROW IN THE LAB • CLOSTRIDIUM DIFFICILE IS AN IMPORTANT PATHOGEN **EMERGING FOOD- & WATERBORNE PATHOGENS** TETANUS & ANTHRAX ALSO CAUSED BY SPORE-FORMERS **BIOFILMS HARBOUR NUMEROUS MYCOBACTERIAL SPECIES** HIGHER RESISTANCE THAN NORMAL BACTERIA TO INACTIVATION ONE OF THE MOST DIFFICULT MICROBIAL FORMS TO KILL COMMONLY USED AS BIOINDICATORS GOLD STANDARD FOR STERILIZATION TESTING Jason A. Tetro Jason A. Tetro Principles of Disinfection, Antisepsis and Chemical Sterilization Principles of Disinfection, Antisepsis and Chemical Sterilization

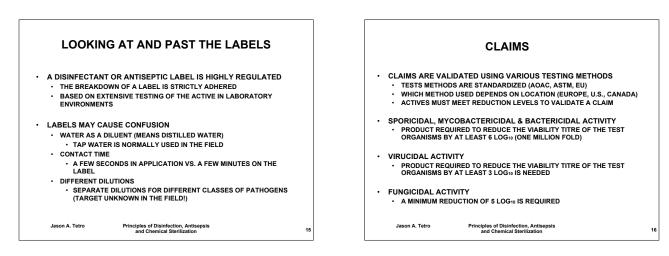


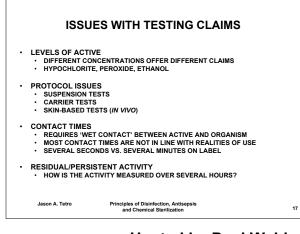


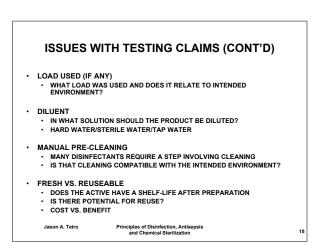


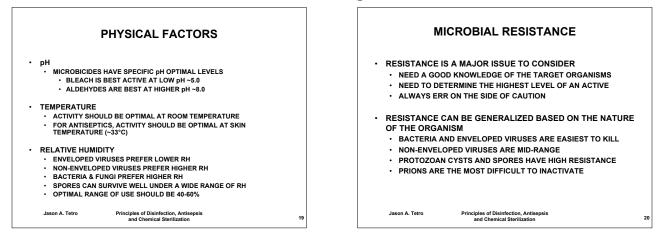


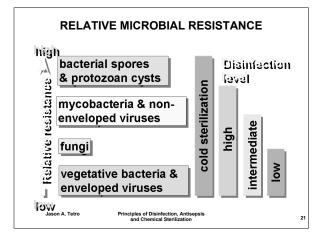


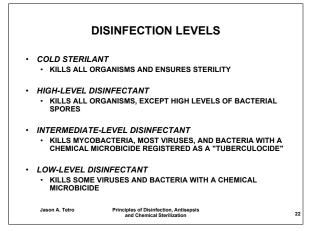


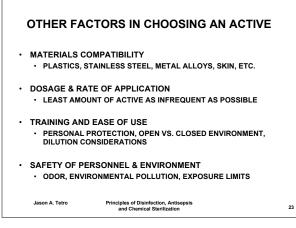


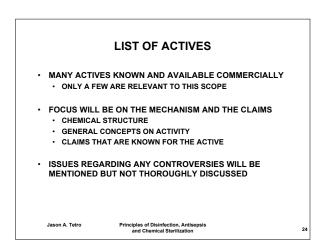


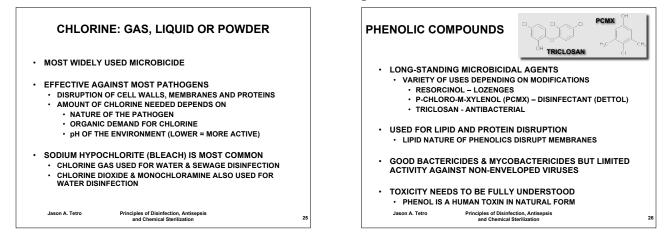


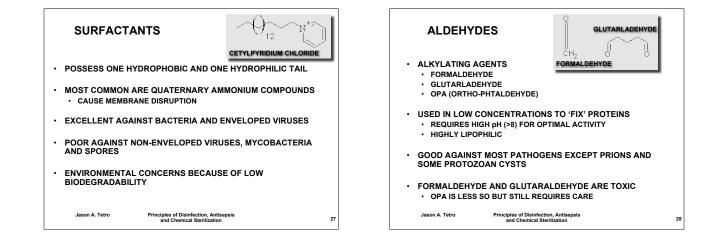


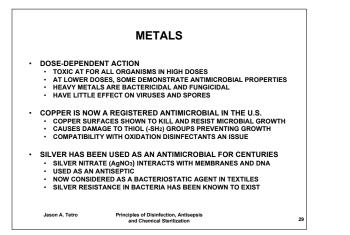


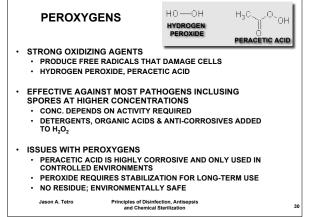


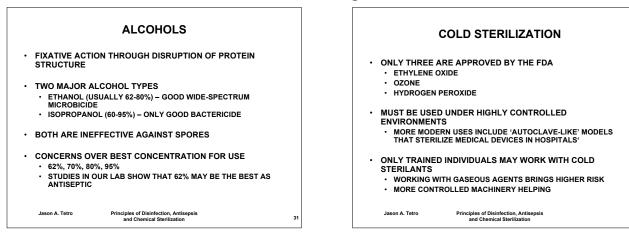


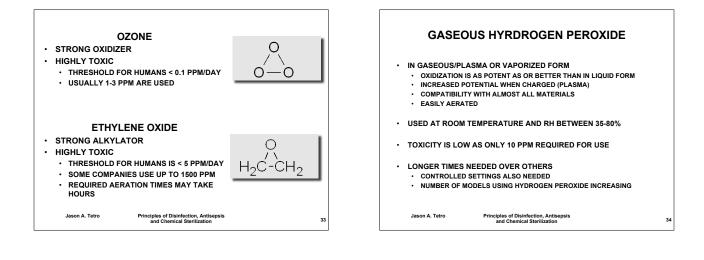




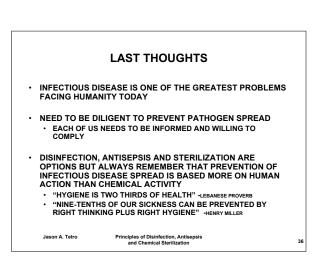








| ACTIVE INGREDIENT | ACTIVITY AGAINST |
|--------------------------------------|------------------|
| SOD. HYPOCHLORITE (1 PPM) | В |
| SOD. HYPOCHLORITE (1000 PPM) | B,EV,NEV,F,M |
| O-PHENYLPHENOL (200 PPM) | B,M,EV |
| QUATERNARY AMMONIUM COMPOUNDS (100- | 3000 ppm) B,EV,F |
| ALKALINE GLUTARALDEHYDE (2%) | B,EV,NEV,M,F,S |
| HYDROGEN PEROXIDE (3%) | В |
| ACCELERATED HYDROGEN PEROXIDE (7.5%) | B,EV,NEV,M,F,S |
| PERACETIC ACID (1-1000 PPM) | B,EV,NEV,M,F,S |
| ETHANOL 62% (V/V) | B,EV,NEV,F |



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