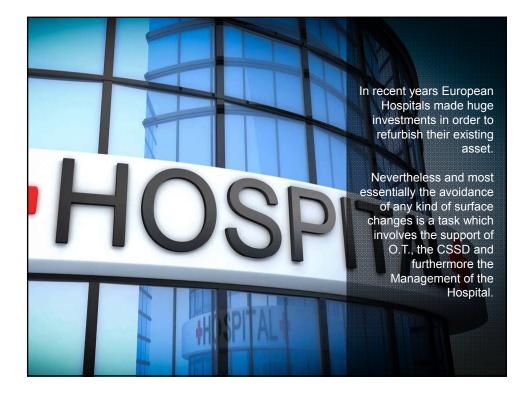
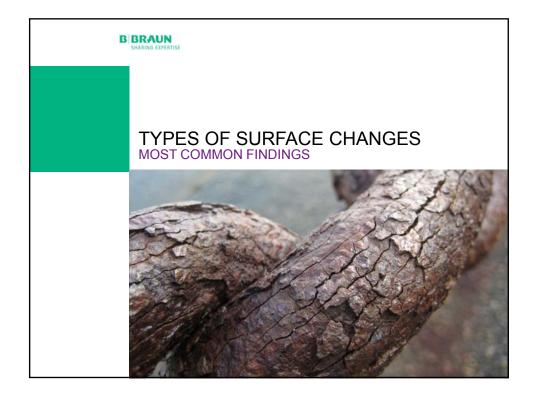
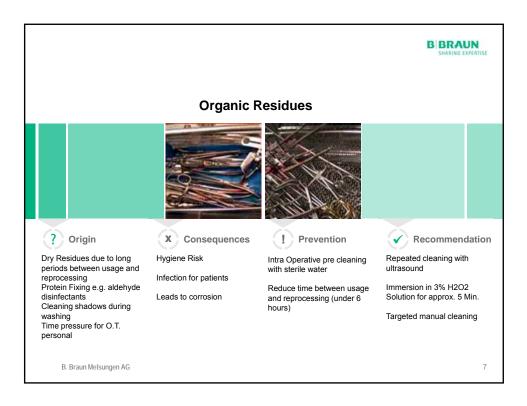


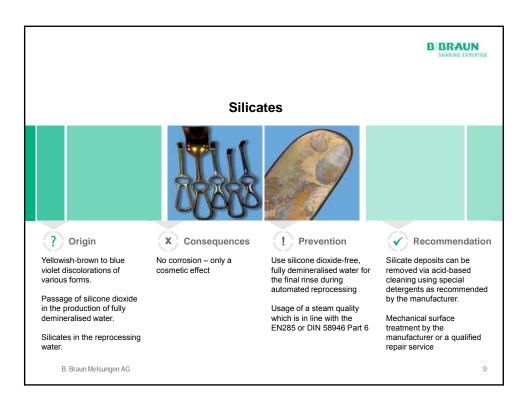
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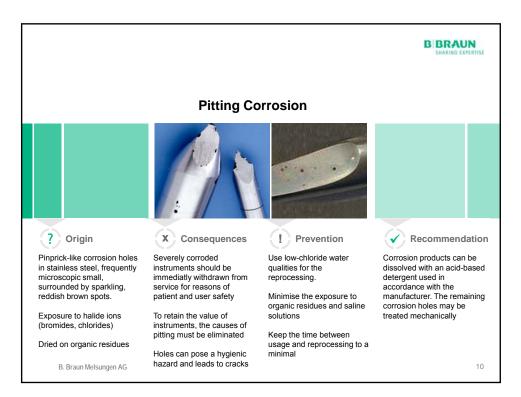






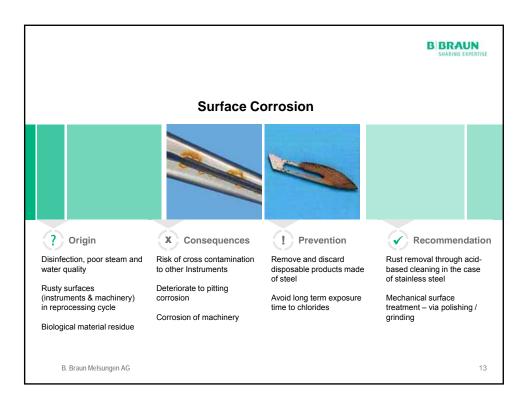
			B BRAUN SHARING EXPERTISE			
Water Spots						
? Origin	X Consequences	! Prevention	Recommendation			
Stains of a milky white to gray colour. Mostly form of irregular spots. Excessive lime in the water used for cleaning. Overloaded trays which leads to excessive condensate formation	No Corrosion – only cosmetic effect	Use fully demineralised water for the final rinse to prevent stain formation during automated reprocessing Cleaning and as necessary intermediate rinses with demineralised water	Wipe-off with a lint free cloth Acid-based cleaning with special detergents as recommended by the instrument manufacturer			
B. Braun Melsungen AG			8			



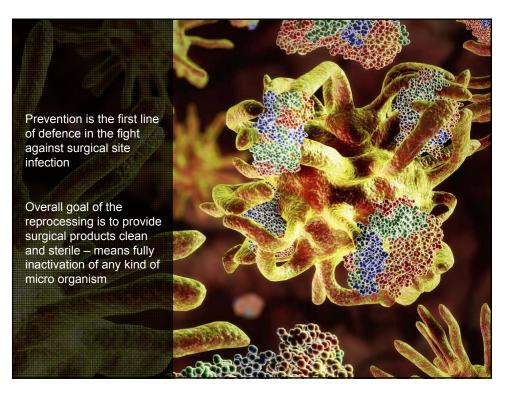


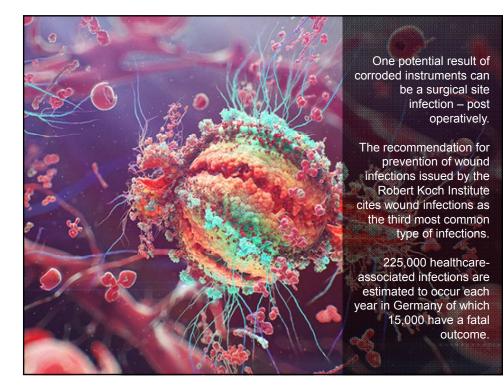
			B BRAUN SHARING EXPERTISE		
Friction Corrosion					
? Origin	X Consequences	Prevention	Recommendation		
Brown stains / discolorations or rust formation around the box locks	Friction Corrosion impairs or completely destroys the instruments functionality.	Allow instruments to cool down to room temperature	Discard defective instruments or have them repaired where possible		
Insufficient lubrication and / or foreign bodies lead to corrosion of the metallic friction surface. This micro abrasion makes the surface rough where deposits can easily accumulate to corrosion and Melsungen AG	Friction corrosion may lead to pitting	Apply manually care products (e.g. Oil) to the joints prior to the function check Distribute the care product uniformly in the joint by opening and closing the instrument	Regrinding and/or polishing can usually repair corrosion damage		

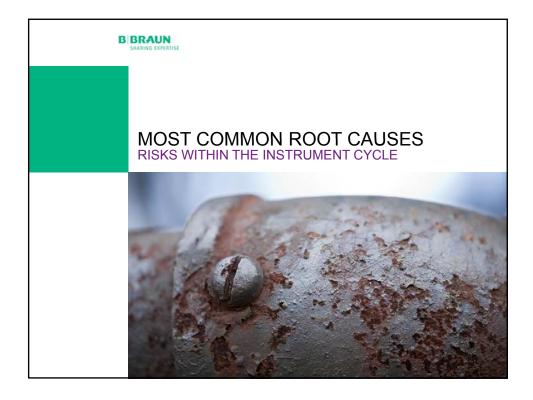


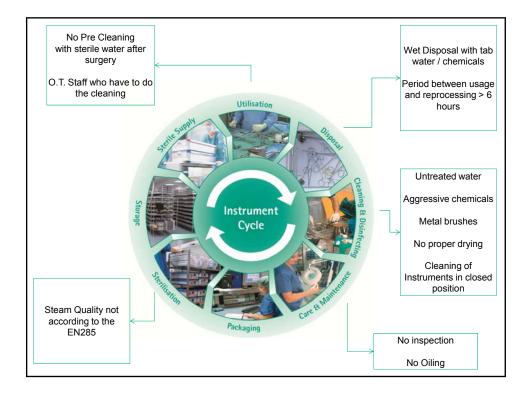


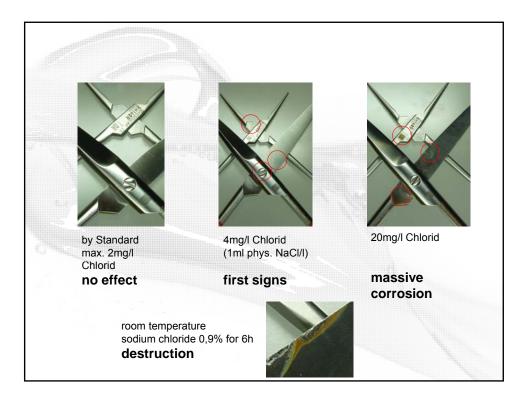


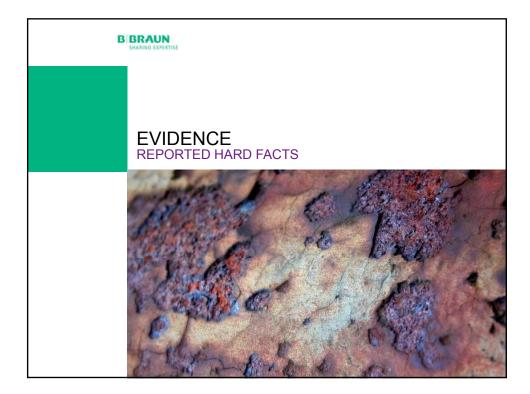












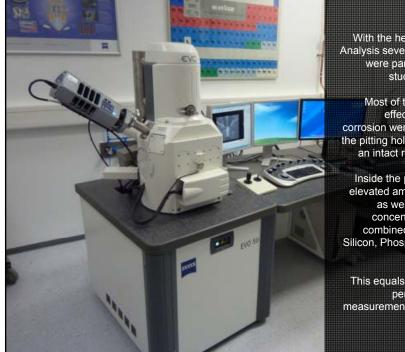
Reported cases where contaminated medical equipment caused infections:

2012 – USA Pseudomonas aeruginosa infection from inadequately cleaned shaver hand pieces

2012 – Men's Health Infections secondary to reconstruction of the cruciate ligament imputed to residues in cannulated instruments

2006 - N. Mamalis Toxic-Anterior-Segment-Syndrom (TASS) - non bacterial, inflammatory reaction of the eyes after surgery





With the help of an EDX – Analysis several Instruments were part of a research study of Aesculap.

Most of the instruments effected with pitting corrosion were tested inside the pitting hole as well as on an intact reference point.

Inside the pitting holes an elevated amount of carbon as well as an oxygen concentration partially combined with Calcium, Silicon, Phosphor and sulfur was found.

This equals from a volume perspective in the measurement field 100µg of protein.



