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- ① Scratches and micro-defects
 - ② External threads tearing tissue
 - ③ *Staphylococcus aureus* accumulation
 - ④ Thickened scar tissue
 - ⑤ Damaged soft tissue
 - ⑥ Leaching nickel allergens
 - ⑦ Bacterial physical shelter
 - ⑧ Trapped particulate matter

Microscopic surface roughness provides physical shelter for pathogens and triggers excess scar tissue.

DEFECTS AND BACTERIAL ADHESION