1. Razor blades fail due to chipping of the sharp edge

2. Through parametric FE simulations we determined how cracks propagate

3. Chipping is due to the combination of 3 factors:
   - Hair incidence angle
   - Microstructural heterogeneity
   - Hair - aspency positioning

   The higher the force angle from the hair, the more likely the crack is to propagate. Heterogeneity in the material can favor crack propagation. The crack propagates at an angle, thus starting the formation of a chip.