

Supplementary Document

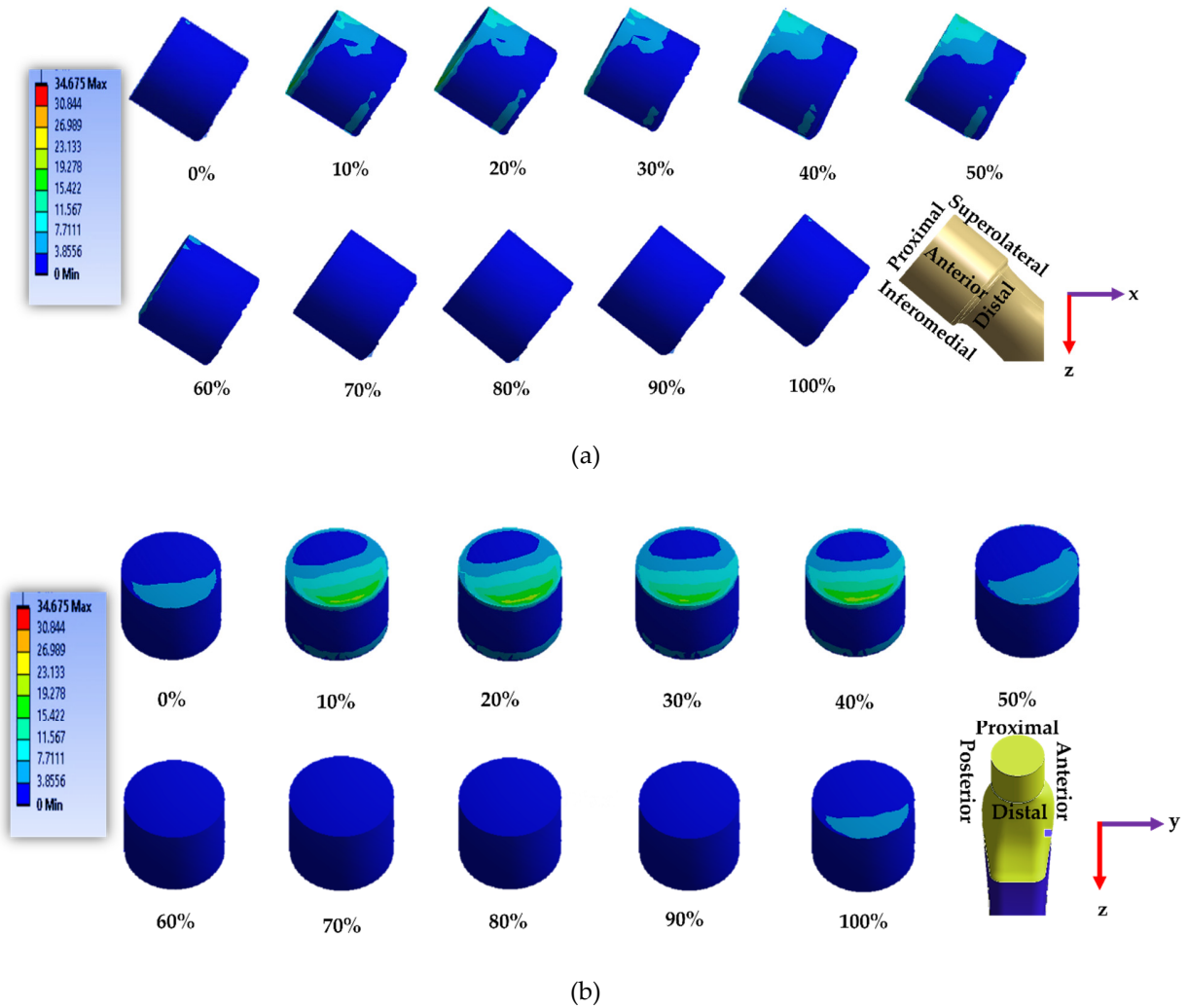
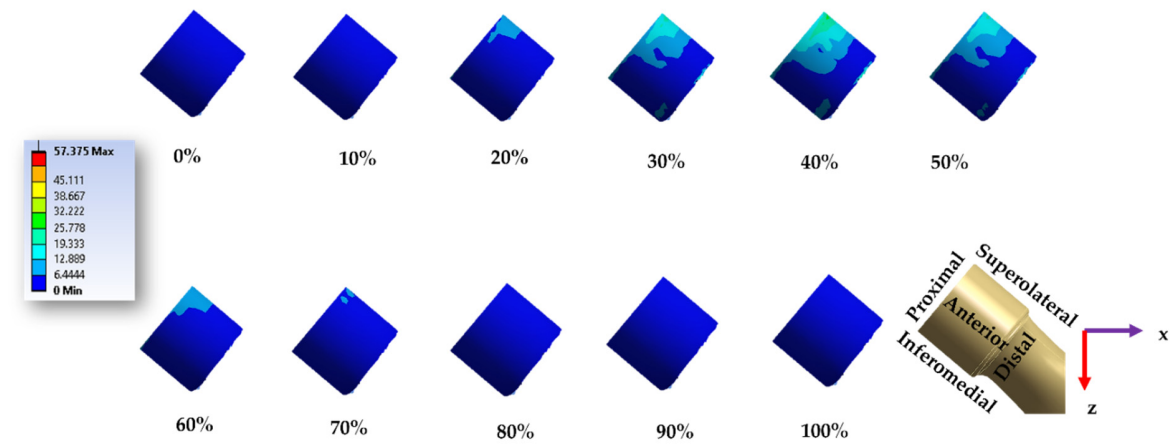
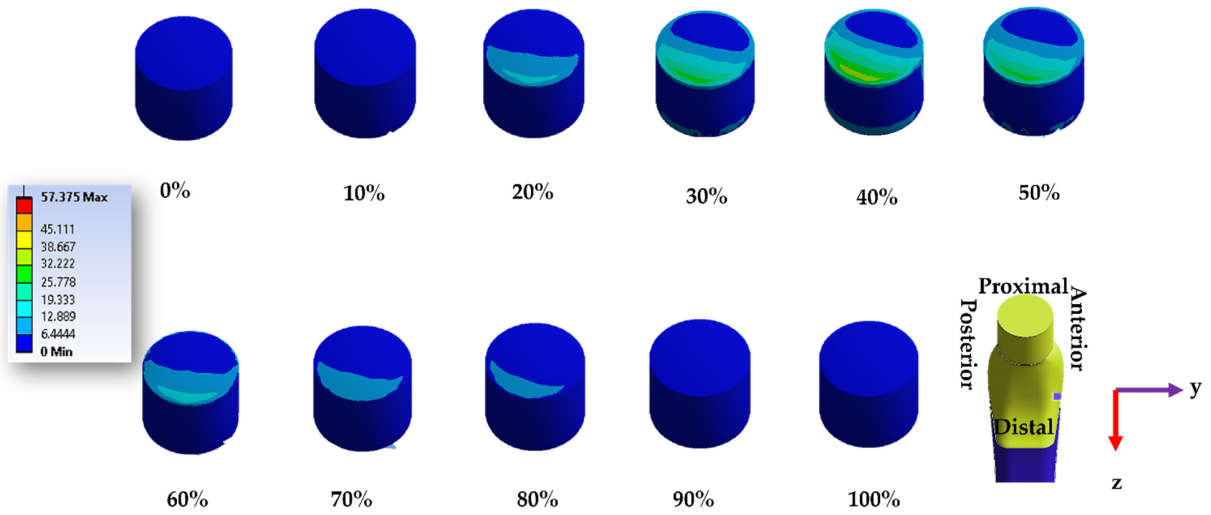


Figure S1. Contact Pressure Distribution Over Smooth Head-Neck Tapered Joint in, (a) Front and (b) Right Side View for Walking Loading Condition.



(a)



(b)

Figure S2. Contact Pressure Distribution Over Smooth Head-Neck Tapered Joint in, (a) Front and (b) Right Side View for Jogging Loading Condition.

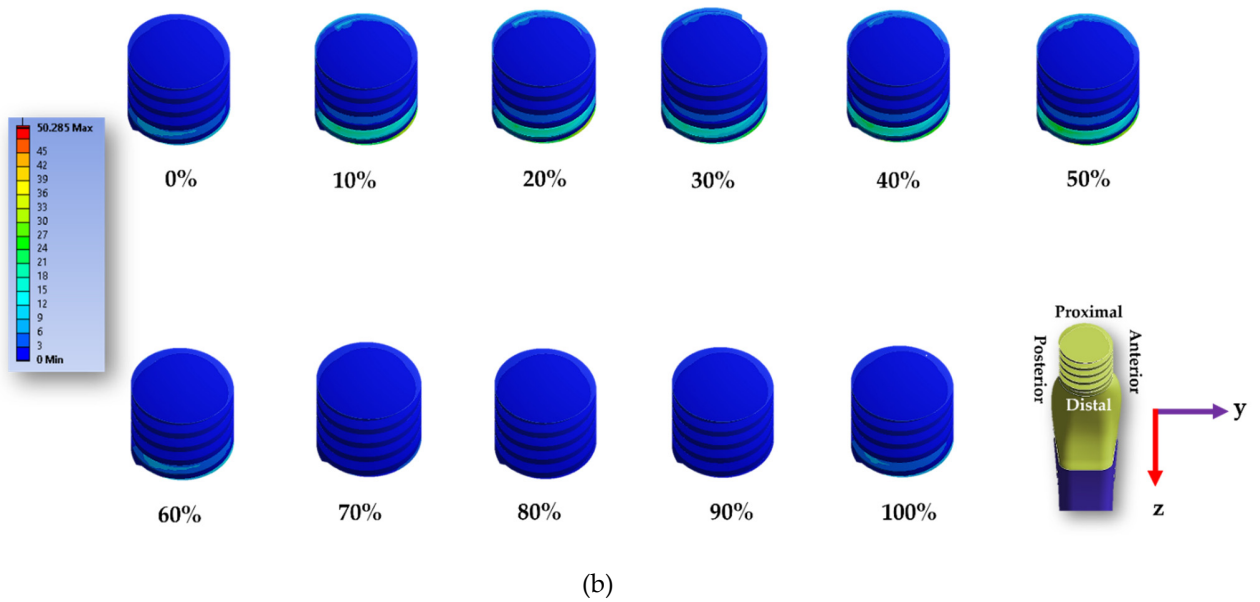
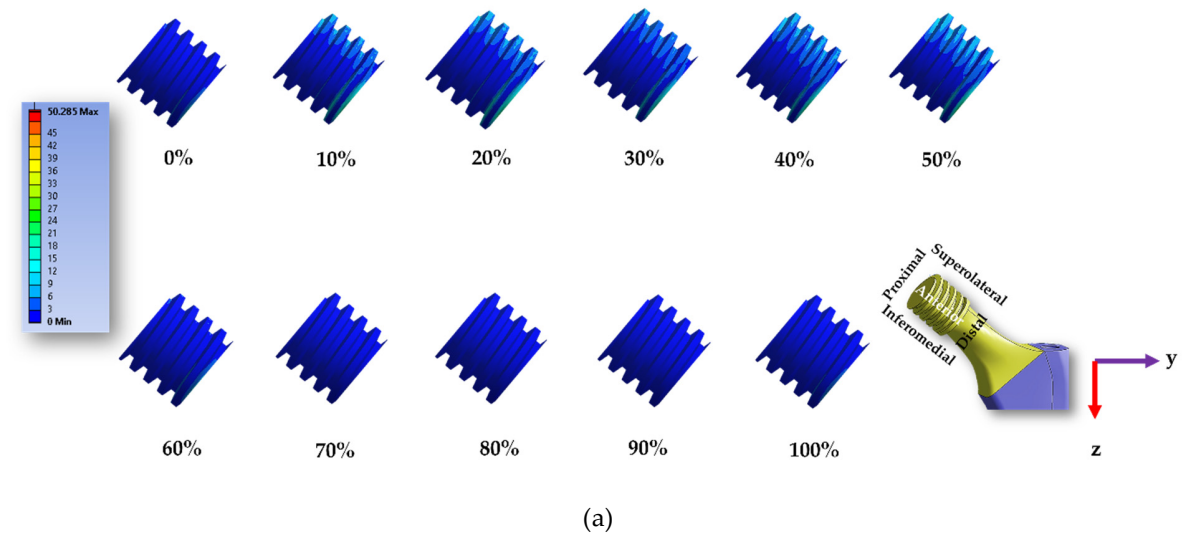
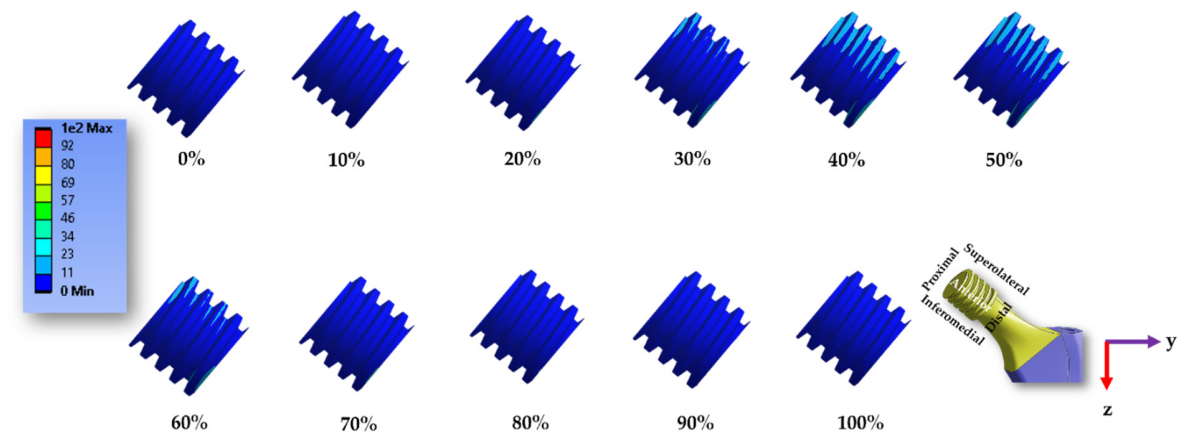
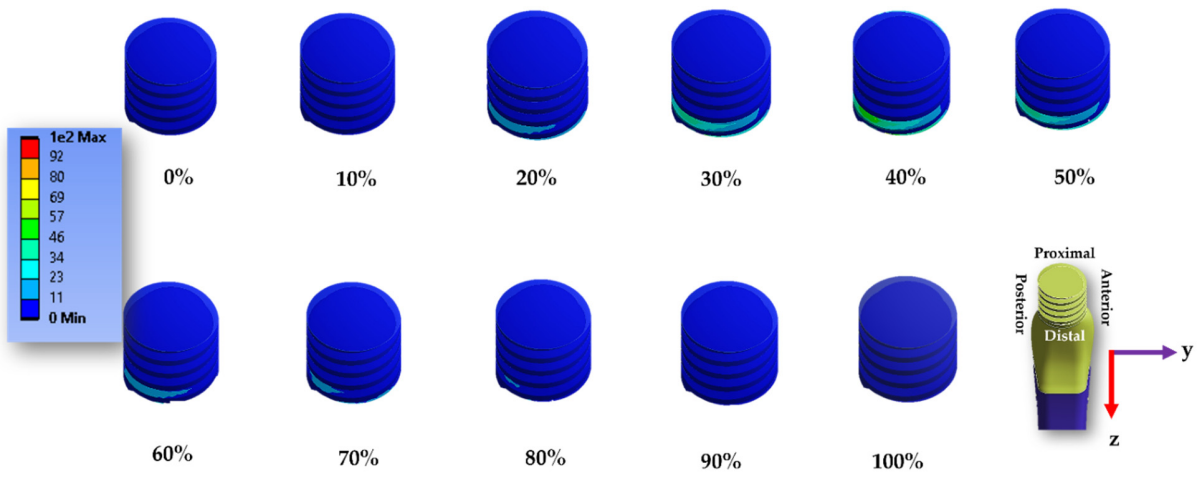


Figure S3. Contact Pressure Distribution Over Spiral Head-Neck Tapered Joint in, (a) Front and (b) Right Side View for Walking Loading Condition.



(a)



(b)

Figure S4. Contact Pressure Distribution Over Spiral Head-Neck Tapered Joint in, (a) Front and (b) Right Side View for Jogging Loading Condition.

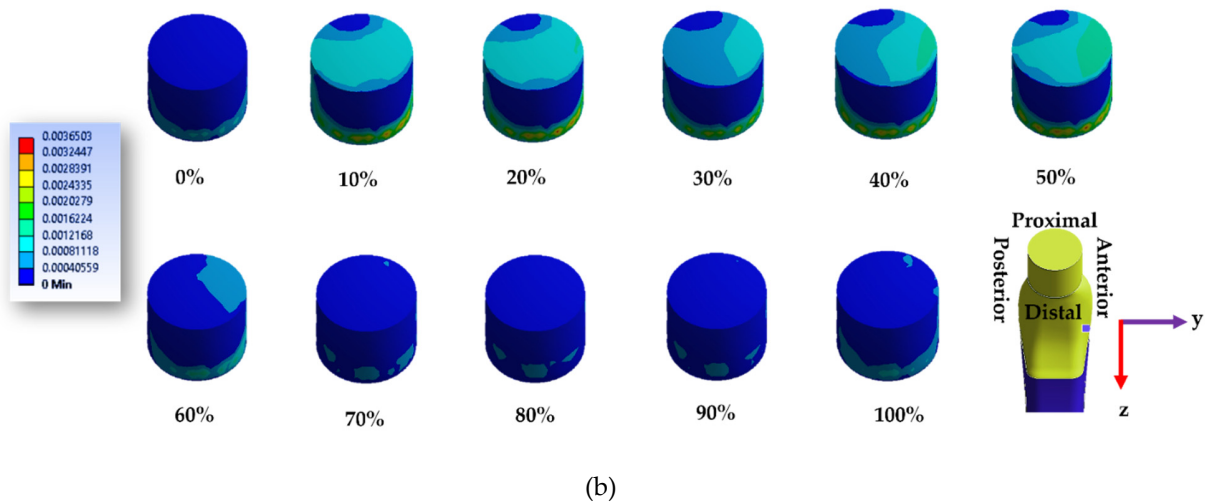
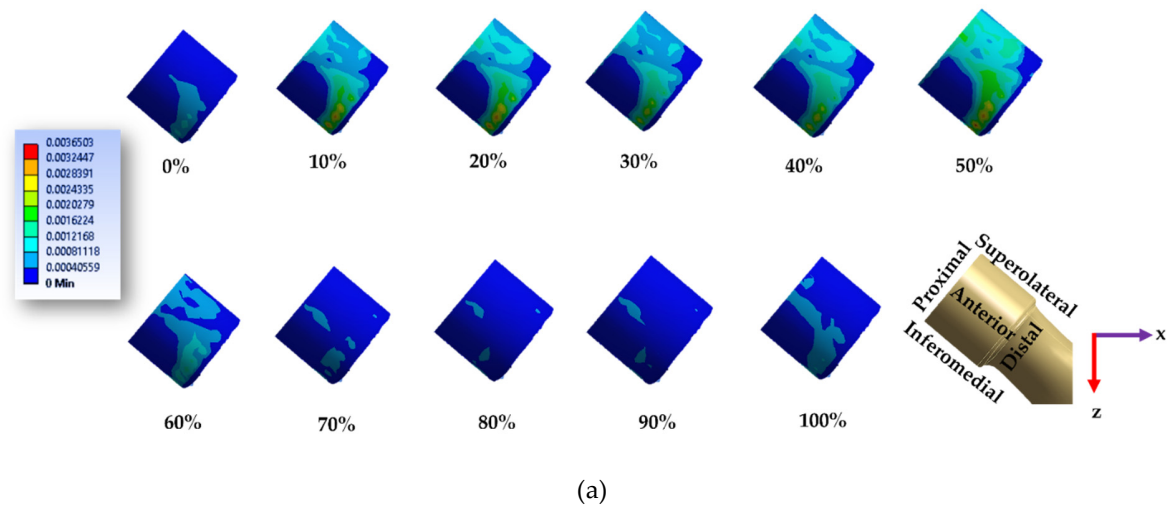
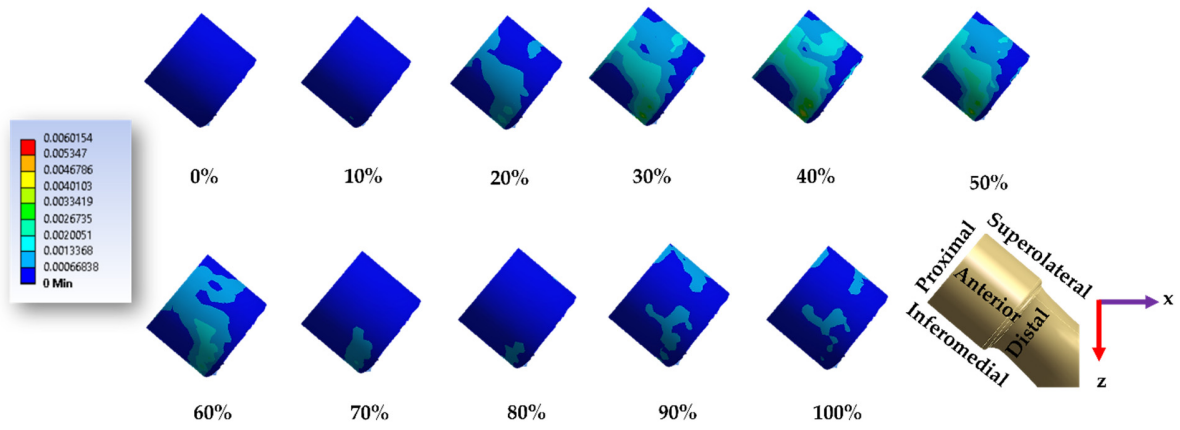
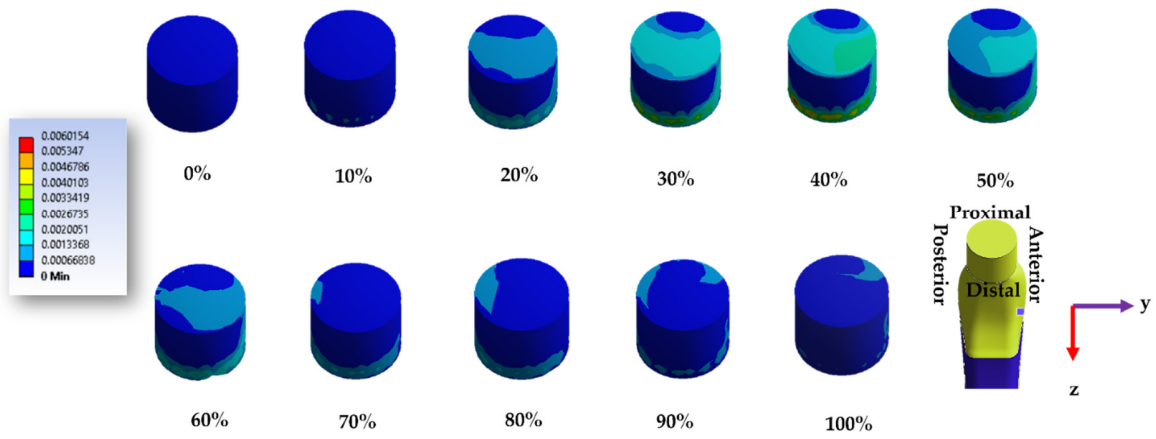


Figure S5. Sliding Distance Distribution Over Smooth Head-Neck Tapered Joint in, (a) Front and (b) Right Side View for Walking Loading Condition.

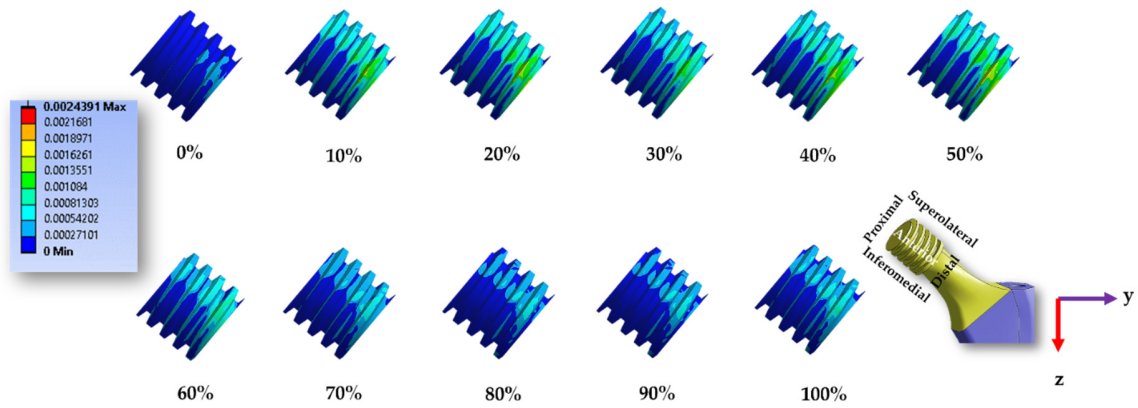


(a)

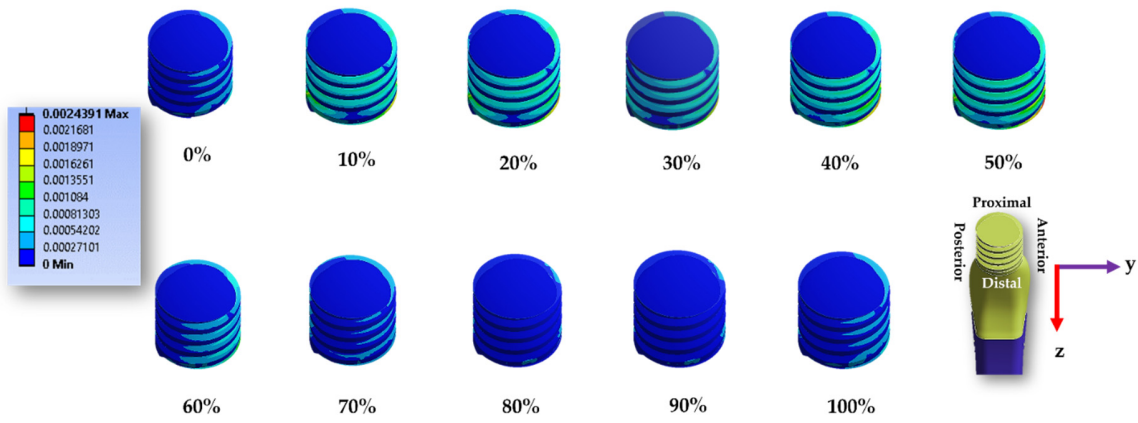


(b)

Figure S6. Sliding Distance Distribution Over Smooth Head-Neck Tapered Joint in, (a) Front and (b) Right Side View for Jogging Loading Condition.

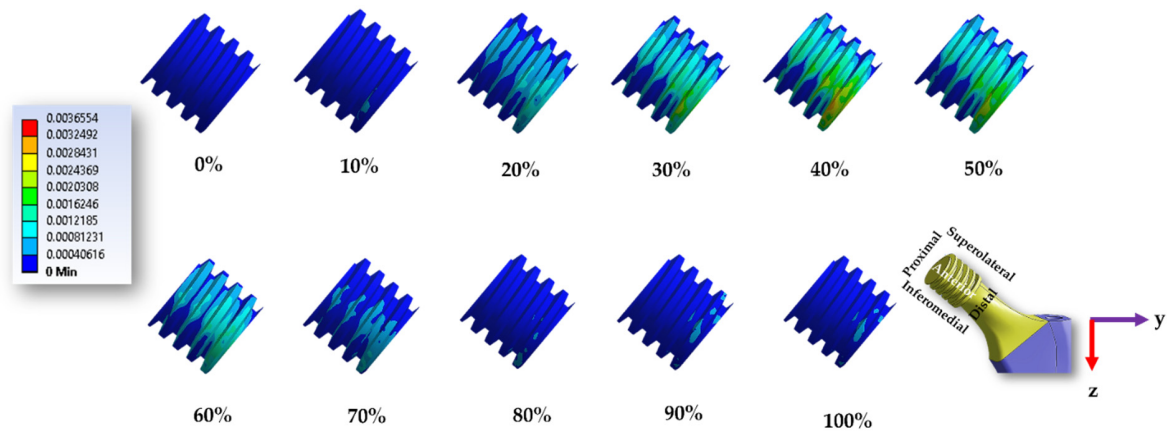


(a)

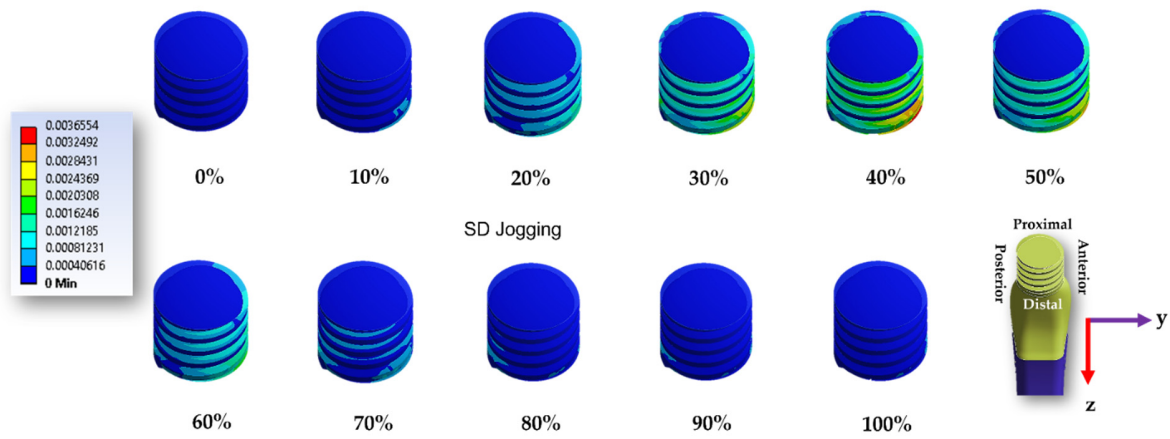


(b)

Figure S7. Sliding Distance Distribution Over Spiral Head-Neck Tapered Joint in, (a) Front and (b) Right Side View for Walking Loading Condition.



(a)



(b)

Figure S8. Sliding Distance Distribution Over Spiral Head-Neck Tapered Joint in, (a) Front and (b) Right Side View for Walking Loading Condition.