ARE COMMERCIALLY AVAILABLE DENTAL FLOSSES EQUALLY GOOD FOR EVERYONE?

Strentex

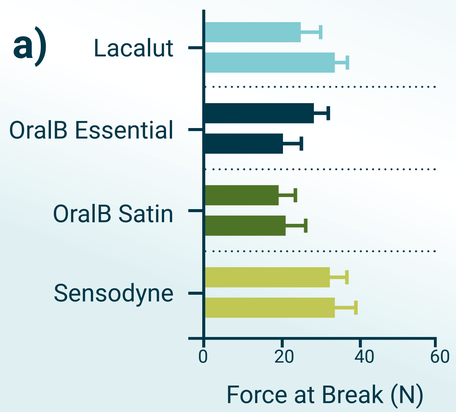
Performance of off-the-shelf dental flosses has not been tested enough in real life

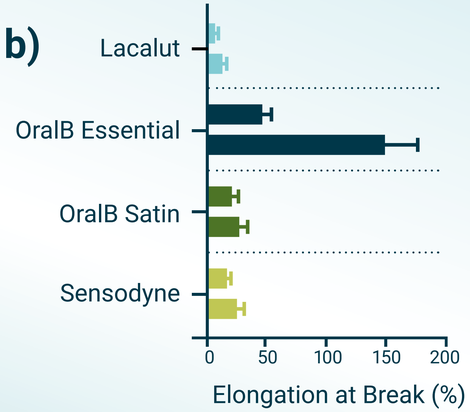
Most properties are provided by the manufacturer primarily for advertising purposes

10 volunteers
4 different commercial flosses
10 samples of each
Asked to floss as normal

Tension Testing and Fatigue Testing of Healthy Samples Tension Testing of Used Samples Cross-verification with SEM and Optical Microscopy

FINDINGS:





Lacalut
OralB Essential
OralB Satin
Sensodyne

a) Force at Break of Various Flosess - pre and post use

b) Elongation at Break of Various Flosess - pre and post use

CONCLUSIONS:

Maximum Force at break can be approximated by anormal distribution across all flosses, but not elongation at break due to partial breaks.
OralB Essential had the most increase in elongation at break for used samples and is the only of the studied that could sustain less force when used.
Dental professionals should consider the specifics of a person's condition and suggest a suitable floss as this study proved that they are not all omni applicable.

Stavrakis, A.K.; Kojić, S.; Petrović, B.; Nešković, I.; **Stojanović, G.M.** Performance Evaluation of Dental Flosses Pre-and Post-Utilization. Materials 2022, 15, 1522. https://doi.org/10.3390/ma15041522

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