

Supplementary Tables

Table S1: Cell counts obtained from paediatric participants brushed under general anaesthetic for comparative assessment of the Olympus and Endoscan brushes in phase one of the study.

| | Olympus | | Endoscan | | <i>p</i> |
|---------------------------------------|---------|-----------|----------|-----------|----------|
| | Median | IQR | Median | IQR | |
| Total cell count ($\times 10^6$) | 1.4 | 0.4 – 3.8 | 2.2 | 1.0 – 8.1 | 0.031 |
| Live cell count ($\times 10^6$) | 0.2 | 0.1 – 0.8 | 0.9 | 0.5 – 1.9 | 0.016 |
| Cell Viability (% live) | 23 | 8 - 48 | 56 | 44 - 61 | 0.097 |

IQR: Interquartile range

Table S2: Cell counts of participants brushed with the Endoscan brush under general anaesthetic (GA) or in the awake state in phase two of the study.

| | GA n=52 | | Awake n=93 | |
|---------------------------------------|------------|-----------|---------------|-----------|
| | Mean* | 95% CI | Mean * | 95% CI |
| Total cell count ($\times 10^6$) | 4.9 | 3.9 - 6.0 | 1.4 | 1.1 - 1.8 |
| Live cell count ($\times 10^6$) | 1.7 | 1.5 - 2.1 | 0.4 | 0.3 - 0.5 |

*Geometric Mean

Supplementary Figure S1

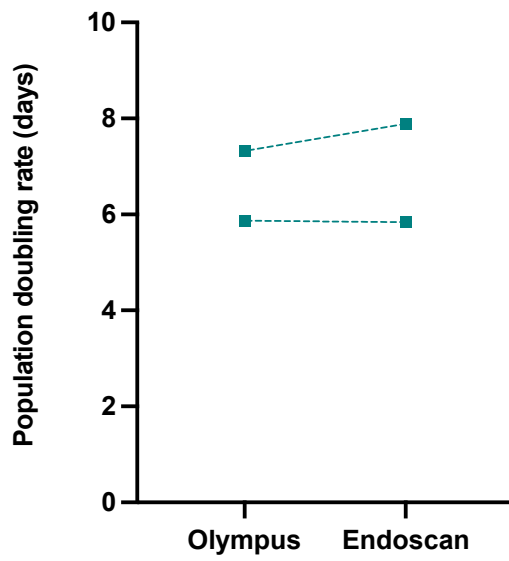


Figure S1. Population doubling rates of side-by-side cultures from the Olympus and Endoscan brush. Samples were seeded using equal cell counts from each brush. Paired samples are connected using a dashed line, $n = 2$.