**Reviewer’s report**

**Title:** Histological determination of cariously altered collagen after dentin caries excavation with the polymer bur PolyBur P1 in comparison to a conventional bud bur

**Version:** 0  **Date:** 16 Jun 2019

**Reviewer:** Nick Chandler

**Reviewer's report:**

I enjoyed reading your paper. I have some minor comments from the pdf - most concern the use of English, and I am a pedant.

P 1 L 1, the title, perhaps it should be after dental caries?

P2 L 35 I think the style of this journal is to have a space after p and also before the value, so p < 0.05. Also another space L 48 1 mm

P4 L6 irreversibly L9 and avoid L 11 perhaps replace gentle with 'less aggressive'? L 17 it should be possible to arrest L 25 remineralizable L 58 they lie

P5 L 11 shaped, L 23 contact with the L 29 dentin starts from L 32 conventional metal burs L 37 blunt, and the polymer L 42 and elsewhere, call this RPM? L 60 Braseller

P6 L10 delete 'more' L 34 working on dentin which is too hard. L 52 carbide burs

P7 L2 Brasseler L 49 examination, and excavated ten additional teeth. L 57, did you know the burs were running within this speed range? Ideally, all the handpieces should be running at a known, fixed RPM.

P8 L 15 was unlimited. L 21 maybe we should be told the type of probe? L 37 excavated by which dentist or bur L 59 the adjacent dentin

P 9 L 18 cariously L 54 The time recorded for (and the same on P10 L 26)

P10 L 51 This difference

P11 L 14 an average L 17 there were L 20 the number of L 46 Overall, the layer L 57 group 43.1%

P 12 L 41 split tooth L 47 Rather, the purpose was to simply evaluate

P 13 L 2 slight L 27 criteria L 33 with restrictions because an individual L 38 method L 57 differentiation between
P 14 L 10 delete 'obtaining' L 13 that the histological L 18 delete 'sawing with' L 21 is lost in the cut. L 51 it was

P15 L 5 routine L 13 small sections of teeth L 51 polymer

P 16 L 42 of carious dentin, which

P 17 L 8 delete 'thickness'

P 20 L 31 Kidd

P 21 L 28 Akca G (space)

**Level of interest**
Please indicate how interesting you found the manuscript:

An article of importance in its field

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