

Perbedaan kadar kalsium dan fosfat pada saliva anak dengan dental black stain dan tanpa dental black stain = Level difference of calcium and phosphate in the saliva of children with dental black stain and without dental black stain

Ariq Noorkhakim, author

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Abstrak

Dental black stain merupakan diskolorisasi gigi berupa garis pigmen hitam atau kumpulan titik hitam pada sepertiga servikal mahkota gigi. Plak pada gigi dengan dental black stain memiliki kadar kalsium dan fosfat yang lebih tinggi jika dibandingkan dengan plak pada gigi tanpa dental black stain. Komposisi kalsium dan fosfat pada saliva dicurigai merupakan penyebab tingginya kadar kalsium dan fosfat plak pada gigi dengan dental black stain. Penelitian ini bertujuan untuk mengetahui perbedaan kadar kalsium dan fosfat pada saliva anak dengan dental black stain dengan saliva anak tanpa dental black stain. Subjek penelitian berusia 4-8 tahun, sebanyak 30 anak yang terdiri dari 15 anak dengan dental black stain dan 15 anak tanpa dental black stain. Pengukuran kadar kalsium dan fosfat dilakukan dengan metode Spektrofotometri UV-Vis. Hasil penelitian menunjukkan bahwa kadar kalsium dan fosfat pada saliva anak dengan dental black stain lebih tinggi secara bermakna jika dibandingkan dengan saliva anak tanpa dental black stain.

.....Dental black stain is discoloration of the teeth which appears as black pigmented line or collection of black dots on the cervical third of the tooth crown. Plaque on tooth with dental black stain has calcium and phosphate concentrations that were higher when compared to plaque on tooth without dental black stain. Calcium and phosphate composition in saliva suspected as the cause of calcium and phosphate level elevation in dental black stain plaque. This study aims to determine the level difference of calcium and phosphate in the saliva of children with dental black stain and without dental black stain. The subjects were children aged 4-8 years, as many as 30 children which consist of 15 children with dental black stain and 15 children without dental black stain. The samples were calcium and phosphate levels which obtained from children's saliva. The levels of calcium and phosphate were measured using UV-Vis spectrophotometer. The results showed that the levels of calcium and phosphate in the saliva of children with dental black stain were significantly higher when compared to the one without dental black stain.