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Salivary chromogranin- Should it be considered a stress biomarker in pediatric dental patients?

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This purpose of the study was to evaluate the effectiveness of salivary chromogranin A as salivary stress biomarker in pediatric dental patients. A total of twenty-three patients attending the department for various dental treatments were included in the study. Out of total 23 patients, 13 (56.5%) were males and 10 (43.5%) were females. Children who needed multiple treatments and visits were included. Statistical analysis utilized were Student 't' test, Analysis of Variance and Spearman's rank correlation coefficient. On both first and second visits, the mean value of pre-treatment CgA was found to 491.53 ± 332.67 (pg/ml) & 568.96 ± 373.42 (pg/ml) respectively, which were slightly more than the mean value of post-treatment CgA, that were only 450.56 ± 413.60 (pg/ml) & 461.86 ± 388.00 (pg/ml)

respectively. The difference between these two values was not statistically significant at both first ($p=0.485$) and second ($p=0.205$) visits. A significant high positive correlation ($\rho = 0.428$, $p = 0.041$) & ($\rho = 0.551$, $p = 0.006$) was seen between the pre & post treatment values of CgA at first and second visits respectively. Hence, it was concluded that CgA can be used as a salivary stress biomarker in pediatric patients. Gender wise, no significant differences were seen in total Children Fear Survey Schedule-Dental Subscale scores in the present study. It was, therefore, concluded that the psychological development gradually matures their ability to relate things with the previous exposure or with the other similar unpleasant experiences as age increases.

Biography

Afroz Alam Ansari is the professor at the department of pediatric and preventive dentistry, King George's Medical University, India. He has presented 16 numbers of papers in the conferences and published 23 paper/articles in national and international conferences. He has been chairing several scientific sessions and a Life Member of Indian Society of Pedodontics and Preventive Dentistry, Life Member of South Asian Academy of Pediatric Dentistry, Life Member of Academy of Pedodontics- UP Chapter. He is also a member of editorial board and reviewer of several journals.

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