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## Awareness and motivation for orthodontic treatment investigated with Q-methodology

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**Objectives:** The aim of this investigation is to evaluate patient's attitudes and demand for orthodontic treatment with Q-methodology.

**Study Design:** Prospective cohort study.

**Materials and methods:** The two-phase method of Stein has been used in order to calculate the number of parents. At the first stage, we have used a sample of 50 children, set the standard deviation (SD) based on age and standard error (SE) with quality variables. At the second stage, a formula has been applied to calculate the number of observations,  $P(u) = 0.95$ ,  $S_x = 3.45$  and  $\Delta = 0.5$ . The study was conducted on 259 children.

**Results:** By the adolescents opinion, the most important reason is aesthetics and here their expectations from the outcomes are very high,  $r_{xy} = 0.93$  ( $P = 0.000$ ). The subjective factors as "I want to have upright teeth"  $r_{xy} = 0.90$  and "I want to look perfect by growing up"  $r_{xy} = 0.82$  show high correlation coefficients. These correlation coefficients are a reason for a summary that highly sophisticated and motivated patients who are aware of the successful social realization and thanks to the beauty of the smile and the perfect vision are involved to the sample.

**Conclusions:** The following four factors have been outlined by Q-methodology to determine the motivation of the children:

- "Aesthetics and Conscious Need";
- "Aesthetics and social realization";
- "Striving for perfection";
- "Aesthetics and importance of foreign opinion".

### Biography

Peeva was born in Plovdiv, Bulgaria in 1971. She graduated Medical University of Plovdiv in 1994 with Master degree of Dentistry. The title of her successfully defended PhD thesis is "Awareness and motivation for orthodontic treatment of children from Plovdiv" (2015). Specializations: 2008 Social Medicine and Health Management (Sofia); 2010 Uludag University Bursa, Turkey; 2012 University Studi di Genova, Italy; 2014 American Austrian Foundation, Open Medical Institute of Austria, Salzburg; 2017 Fundacion Universitaria de Ciencias de la Salud (FUCS), Bogota, Colombia; 2018 EADPH Spain. Scientific Interests: orthodontics, public health, prevention and prophylaxis of oral health, e-health, health management, European health law and policies, etc. Textbooks: Peeva Yu. Awareness and motivation for orthodontic treatment through the eyes of orthodontists, children and parents. Sofia: Leading technologies in dentistry' company, (2017). 260 p. ISBN 978-954-90363-8-1.

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