

## **Students' Workshop in Second International Student Congress May 24, 2019**

**Title:** ALTERNATIVE MANDIBULAR ANESTHESIA

**Lecture:** prof d-r Cena Dimova

**Instructors:** prof. d-r Cena Dimova, d-r Sonja Rogoleva,

**Introduction:** the inferior alveolar nerve block (IANB), also known as the “standard mandibular nerve block” or the “Halsted block,” has been used to provide anesthesia in mandibular teeth. This technique, however, has a success rate of only 80 to 85 percent, with reports of even lower rates. Investigators have described other techniques as alternatives to the traditional approach, of which the Gow-Gates mandibular nerve block and Akinosi-Vazirani closed-mouth mandibular nerve block techniques have proven to be reliable. Dentists who know how to perform all three techniques increase their probability of providing successful mandibular anesthesia in any patient.

**Aim:** In this workshop the Gow-Gates technique is reinterpreted using a geometrical approach based on lines and planes and is proved mathematically. In so doing a simple yet concise method of reaching the injection site is presented with a definite relationship between the anatomical pathway of the needle and a formal geometrical and mathematical pattern.

**Conclusion** Alternative techniques are indicated for any type of dentistry performed in the mandibular arch, but they are particularly advantageous when the patient has a history of standard IANB failure owing to anatomical variability or accessory innervation.

**Program (group of maximal 15 students)**

11.00 - 11.30 lecture

11.30 - 13.00 Workshop

13.00 -13.10 Certifications

