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## Transcrestal augmentation of the maxillary sinus floor– Advantages and limitations

**Haim Tal**

Tel Aviv University, Israel

Adequate quality and volume of bone is a pre-requisite for the long term success of implant supported prostheses. In the edentulous posterior maxilla, the maxillary sinus frequently poses anatomical and pathological restrictions. Augmentation of the anatomy of the resorbed sinus may enable successful implant placement. This surgical procedure - Sinus Lift/Sinus Floor Elevation - may be performed by two basic techniques: Sinus floor elevation through the lateral wall of the maxilla (Caldwell-Luc procedure) and through a crestal approach (Percrestal Procedure). The different techniques of Percrestal Sinus Lift will be presented, including the Osteotom, the Balloon and the Hydraulic procedures. The rational, advantages and limitations of each technique will be discussed, and their qualities will be compared with the Caldwell-Luc procedure as well as between one another.

[talhaim@post.tau.ac.il](mailto:talhaim@post.tau.ac.il)

## Caries removal concepts: A long journey between Black's principals and minimal invasive concepts

**Hamdi Hosni Hamdan Hamama**

Mansoura University, Egypt

Dental caries is a multifactorial microbial disease that affects tooth hard tissue leading to destruction of its mineral and organic components. The current work reviewed the development of caries assessment methods and excavation concepts in the past two centuries. In the late nineteenth century, G.V. Black introduced a classification of dental caries, as well as established the principals of tooth preparation, based on his understanding of the nature of the disease. However, due to the great development of dental materials and caries detection methods, most of Black's principals are no longer valid nowadays. In light of the minimal invasive philosophy, several new caries excavation concepts were introduced. These concepts convert 'old' Black's caries excavation concept of "extension for prevention" to "prevention of extension". Since 2000 the concepts of caries excavation have greatly changed due to the popularity of the 'partial caries removal' concept. As an example of this new 'conservative' vision, the "Fédération Dentaire Internationale" (FDI) (World Dental Federation) approved the Atraumatic Restorative Technique (ART) as one of the

[hamdy@connect.hku.hk](mailto:hamdy@connect.hku.hk)