

## Ultrasonography in facial harmonization

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Ultrasonography (USG) is a diagnostic imaging method, widely used for the evaluation of muscles, superficial tissues and joints. Through ultrasound, we can stratify the skin layers (superficial tissue anatomy) that will serve as an evaluation of the skin that will receive the Facial Harmonization procedures. In this way, we know better the area where the products will be injected and we can investigate the presence of previously injected harmonizing material, identifying it. With the color and pulsed Doppler function, we evaluate and locate blood vessels. We can map the caliber and blood flow of vessels and veins, avoiding the injection of harmonizing products into the lumen of the vessels or compressing them (vascular occlusion), which could cause an intercurrence. The ultrasound used in Facial Harmonization is MODE B (brightness), a two-dimensional image built from echoes generated in the piezoelectric crystals of the probes through

the reflection of the ultrasound sound waves in the tissues. The pattern of electrical charges, emitted by returning sound waves, is used to create the ultrasound image on the device's screen. The existing crystals in the probes are very important in the generation of these images. Therefore, Doppler ultrasound makes Facial Harmonization procedures safer with prior mapping or control mapping of the procedures performed.

### **Biography**

Dr. Délia Carvalho; Dental Surgeon; Dental Judicial Expert; Specialist in Health Management at USP, São Paulo, Brazil; Master's Student in Radiology and Dental Imaging since 2021 at São Leopoldo Mandic, Campinas, São Paulo, Brazil; She published an article in SVOA Dentistry, UK ; Book Chapter in Editora Inovar, Brazil.

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**Received Date:** September 20, 2022; **Accepted Date:** September 22, 2022; **Published Date:** October 04, 2022