IJAE

Italian Journal of Anatomy and Embryology

Official Organ of the Italian Society
of Anatomy and Histology

75° Congresso della Società Italiana di Anatomia e Istologia
75TH Meeting of the Italian Society of Anatomy and Histology

Padova, 14-16 september 2022

IJAE
Vol. 126, n. 1 (Supplement): 323, 2022
ITALIAN JOURNAL OF ANATOMY AND EMBRYOLOGY

Adipose tissue of the face. It is everywhere the same?

Marina Protasoni[1], Andrea Brambilla[1], Piero Antonio Zecca[1], Mario Raspanti[1], Dario Bertossi[2], Marcella Reguzzoni[1]

[1] Dipartimento di Medicina e Chirurgia, Università degli Studi dell'Insubria
[2] Dipartimento di Scienze chirurgiche, odontostomatologiche e materno-infantili, Università degli Studi di Verona

Subcutaneous adipose tissue of the face is organised in different fat pads subdivided in superficial and deep layer. Although on macroscopical observation the facial fat pads appear to be similar, during ageing they underwent to a different modification. Starting from this evidence, we decide to evaluate if some differences should be described at microscopical level.

To start to investigate the structure and the ultrastructure of the facial fat pads, and to obtain some details of their three-dimensional architecture, light and scanning electron microscopy were performed on samples harvested from 10 patients during maxillary surgery. 6 samples were harvested from Bichat fat pad and 4 samples were harvested from superficial fat pads.

Light and scanning microscopy demonstrate that adipose tissue of superficial and deep layers are different both for the adipocyte's dimensions and for the different organisation of the collagen fibres that envelope the adipocytes.

These results represent the first step of our study, further experiments are now undergoing in order to better evaluate the differences between superficial and deep layer, but also between patients of different age and/or different BMI.

References

[1] Conti G et al. Regenerative potential of the Bichat fat pad determined by the quantification of multi lineage differentiating stress enduring cells. Eur J Histochem 2018; 62: 271-277.
[2] Sbarbati et al. Subcutaneous adipose tissue classification. Eur J Histochem 2010; 25, 54:e48.

© 2022 Firenze University Press