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Rheological aspect of hyaluronic acid fillers


Hyaluronic acid (HA) is the most-abundant glycosaminoglycan in the human body and it is made by repetitive sequences of D-Glucuronic Acid + N-Acetyl D-Glucosamine. Indeed, HA represents 15% of body weight in individuals weighing around 70Kg; skin represents 50% of total HA in the body; and 1/3 of total HA in the human body is metabolized daily. HA-based aesthetic dermal filler has 400-6,000 KDa of molecular weight and presents a high hygroscopic function for extracellular matrix (increases immediately in 15% its volume). Based on the short 12-hour half-life of a noncross linked HA-based filler, scientists created cross linked HA-based fillers that have better stability against metalloproteinase and a long-lasting durability. However, such manufacture profile impacts directly on the HA-based product rheological properties (rheology is the study of the flow of matter of a product, under external conditions in which they respond with plastic flow rather than deforming elastically in response to an applied force). In this lecture, the speaker will explore the different rheological

properties of different commercial HA-based fillers, based on their manufacture process.

Speaker Biography

Adilson Da Costa is a Brazilian dermatologist that lives in Atlanta, GA, USA. He got his MD from Santa Casa of Sao Paulo School of Medicine, wherein he also completed his specialization in Dermatology. He obtained his MSc in Dermatology from Federal University of Sao Paulo, PhD from the University of Sao Paulo School of Medicine and he did his Postdoctoral Research Fellowship in Dermatology at Emory University School of Medicine, Atlanta, GA, USA. Currently, he is a Tenured Professor for the PhD and MSc Programs at the State of Sao Paulo Workers' Welfare Institute, Sao Paulo, SP, Brazil. He is a very experienced Researcher in Dermatology and has served as a Principal Investigator in more than 150 projects, either clinical or *in vitro*, which helped him to take place as an Advisory Board Member for important companies, such as Galderma, Sinclair, Avon, L'Oréal, Hypermarcas, and Natura; moreover, his research skills has helped him to be a common scientific resource for the general media, and an frequent speaker in international scientific meetings. He has already two books published "Dermatology in Pregnancy" (Guanabara Koogan) and International Textbook of *Cosmeceuticals* (Elsevier) and is now working on an international masterpiece on dermatological procedures. He has more than 60 manuscripts and chapter of books already published.

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