"For more than two decades now, we've known clinically that fat does improve the skin, but I don't think it's due to just one thing," says Dr. Haideh Hirmand, a board-certified plastic surgeon in New York City. In nanofat, "there's more than just stem cells," she goes on to explain. Moreover, "we know that the stem cells themselves contain or produce and secrete biologically active substances," which control inflammation, turn on collagen-producing fibroblasts, and prevent DNA damage. "But we still don't know exactly which components do what," Dr. Hirmand says.

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Stem cells for under-eye rejuvenation

Dr. Hirmand agrees that "we often can't improve the [under-eye] tissues or volume as much as we want to by just doing blepharoplasty," she says. By incorporating fat, however, she's able to offer patients what she calls a "more intelligent version of the surgery."

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When using nanofat, "I call it adipose-derived serum," says Dr. Hirmand. "I don't say, 'Here are your stem cells." Instead, she describes the serum as "a sized-down version of the fat that contains this milieu of additional components, provided by the fat, which can help improve the tissue."