The objective of this double-blinded randomized controlled trial was to compare the safety and effectiveness of three new RHA fillers, developed to suit the facial dynamics, with classical competitor products in the treatment of nasolabial folds (NLF).

**Methods**

The study was sponsored by teoxane SA, Geneva, Switzerland. The secondary criteria included variation of the NLF volumes using Primoq 3D (Phase1/II Rapid In vivo Measurement of Skin’s Global Aesthetic Improvement for skin (GAI), FACE-Q, satisfaction assessment. Safety was assessed through Common Treatment Reactions (CTR), patients’ diaries, pain during injection using a 100 mm Visual Analog Scale (VAS) and adverse events (AE) collection.

**Subjects**

The study included both genders between 40 and 70 years old, with 2 symmetrical moderate (WSRs=2) to severe (WSRs=4) nasolabial folds, based on the 5-grade (1-5) Wrinkle Severity Rating Scale. Key exclusion criteria included injections in the NLF with absorbable filling products within 1 year of study entry, or a history of allergy or sensitisation to any of the tested products, and 6 weeks of study entry, or a history of allergy or sensitisation to any of the tested products, and 18 months after baseline.

**Results**

No statistically significant difference was found between the Wsrs scores of the two products in each of the evaluations. The mean age of the subjects was 57.9 years (± 8.12, sd), 83.3% were female and 5.6% were Fitzpatrick skin phototype IV-V.

The three new TEOSYAL®RHA products induced a good aesthetic improvement in all subjects with equivalent results to the classical products. All tested products have a very good safety profile.

**Conclusions**

The three new TEOSYAL®RHA products induced a good aesthetic improvement in all subjects with equivalent results to the comparators at 18 months, and demonstrated better wrinkle filling using objective 2D volume measurements. Subjects and treating investigators were globally very satisfied by the immediate natural aesthetic result obtained with the TEOSYAL®RHA products. All tested products have a very good safety profile.