

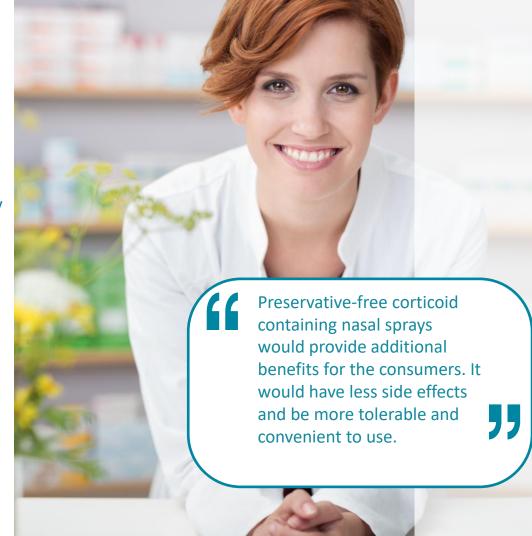


Development of corticoid-containing nasal sprays, 100% preservative-free



## **Corticoid-containing nasal sprays**

- Corticoids are very poorly soluble in water and are therefore present as a suspension in aqueous nasal sprays:
  - The consumer needs to shake the nasal spray before use → inconvenient to use.
  - Technically, it is not possible to use sterile filtration during an aseptic manufacturing process and up to now, products are being preserved with agents as benzalkonium chloride → bears the risk of side effects and allergic reactions.



## **Current Developments**

(Pharmaceutical drugs)

3K® Pumps & Bottles

Corticosteroids (Budesonide, Mometasone, Beclometasone)

Solubilizing agents

Sterile Filling

Effective nasal sprays without side effects that are due to preservatives

100% preservative-free

for more tolerability

Availability expected in 2026.

Patent protected until 2044

