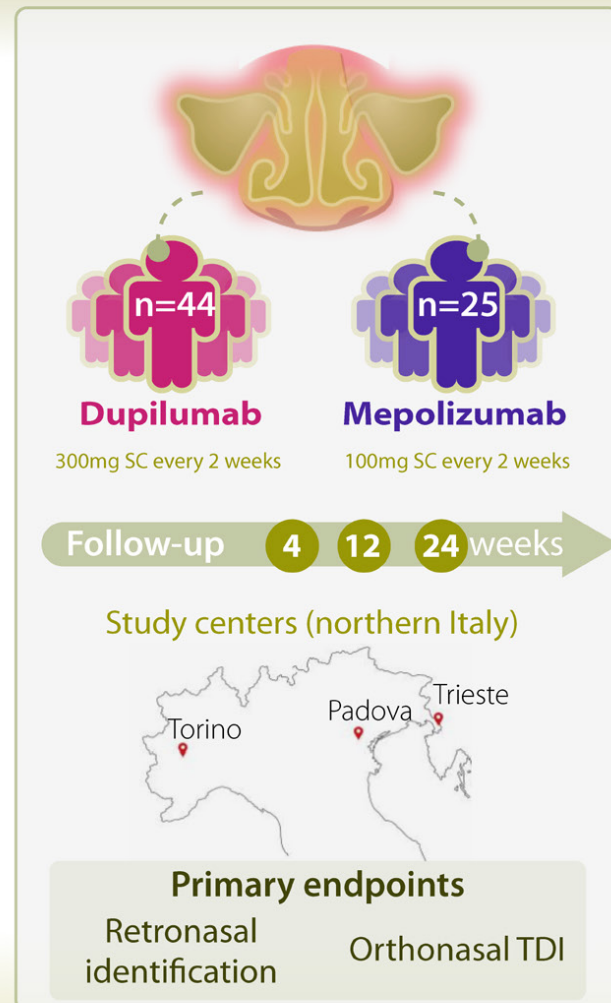
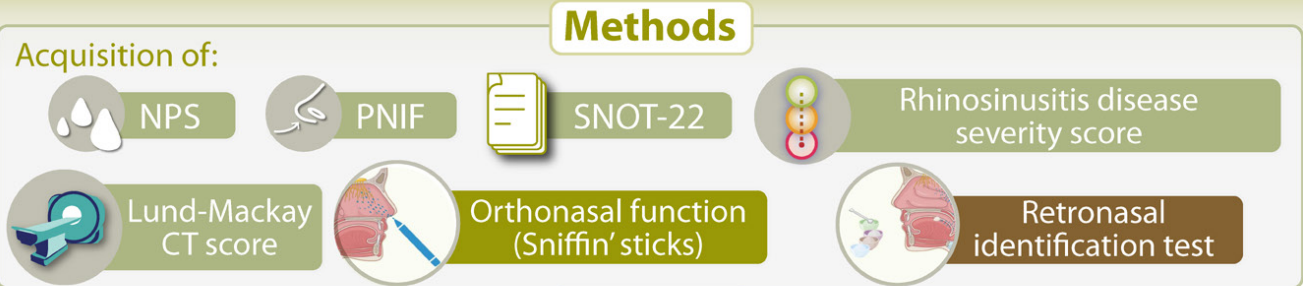
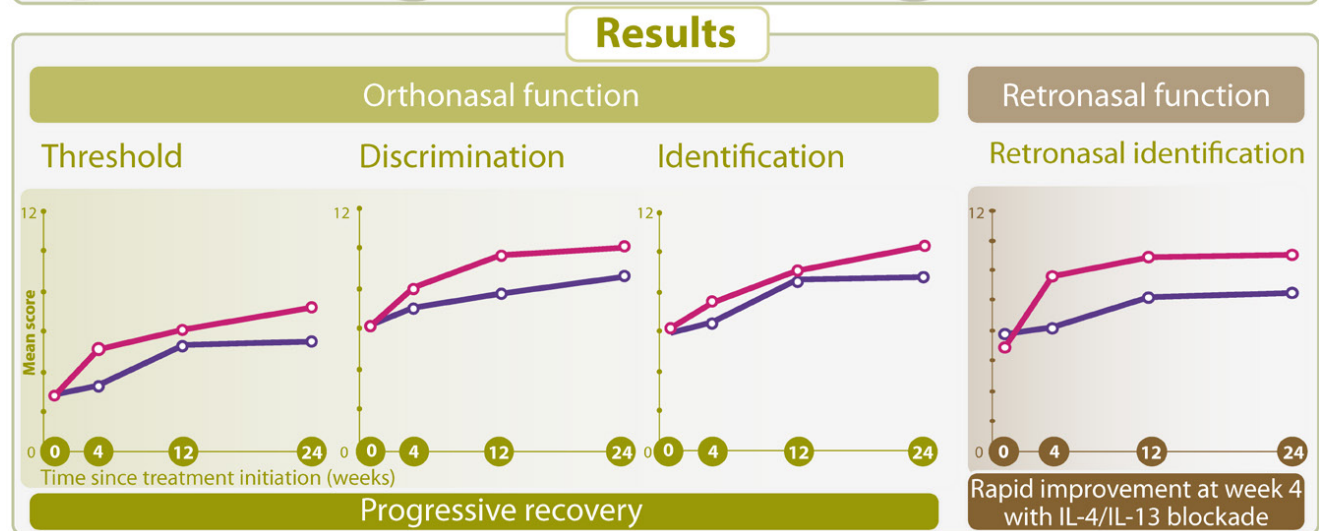


Retronasal olfactory recovery during biologic therapy for CRSwNP

A prospective longitudinal study with parallel orthonasal assessment



Biologic therapy significantly improves both retronasal and orthonasal olfaction in severe CRSwNP, with distinct recovery patterns



Earlier retronasal recovery under IL-4/IL-13 blockade supports reversible cytokine-driven neuroepithelial dysfunction



Retronasal testing may serve as an early functional biomarker of response to biologic therapy