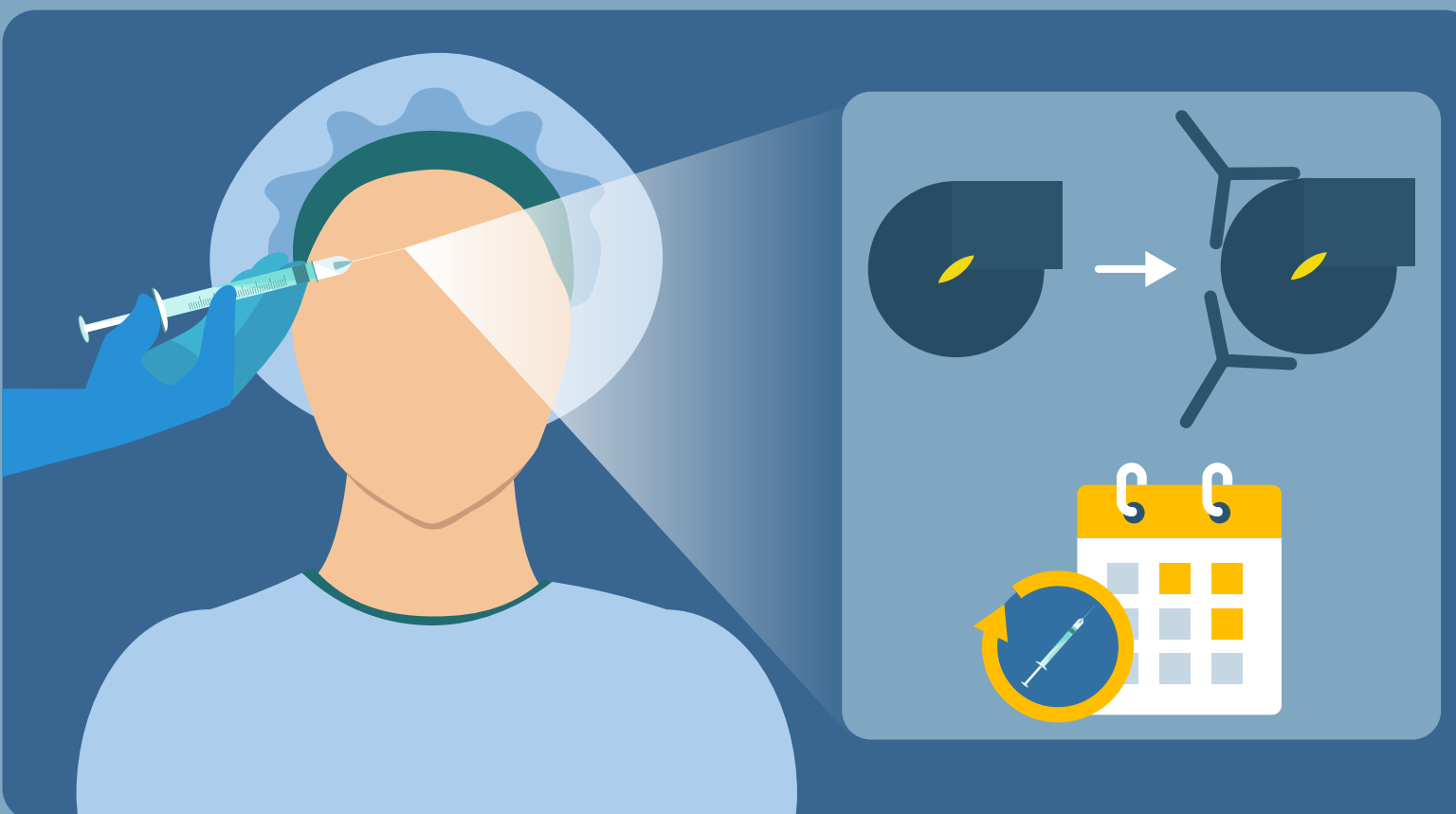


Treatment Considerations for the Prevention of Botulinum Neurotoxin A Resistance

Repeated injections of Botulinum neurotoxin A (BoNT-A), a widely used aesthetic treatment, can result in the generation of neutralizing antibodies (NAb)...



...with subsequent immunoresistance and secondary non-response (SNR)

However, the true extent and impact of NAb-related SNR in aesthetic practice are unclear

AeSthetic Council for Ethical use of Neurotoxin Delivery [ASCEND]



An international multidisciplinary panel of experts



Review of published literature, systematic reviews (SRs), clinical studies, and case reports



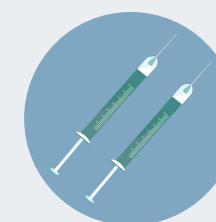
Identification of 13 cases of NAb-related SNR due to aesthetic use that were missed by SRs



Assessment of consensus on clinical, ethical, and aesthetic considerations



Underestimation of BoNT-A immunoresistance due to limitations of published SRs and variability in treatment patterns



Increased off-label use of higher BoNT-A doses is associated with a higher risk of developing SNR



NAb-related SNR development might affect future therapeutic use of BoNT-A

Prevention of NAb-related immunoresistance



Application of medical ethics in aesthetic practice



Individualized patient assessment and treatment history evaluation



Consideration of patient safety and empowerment in decision-making



Use of minimum effective dose



Use of a BoNT-A product with the highest purity and lowest immunogenicity



Consideration of injection frequency and intervals

Aesthetic practitioners should consider the impact of immunoresistance following BoNT-A treatment and adopt a collaborative patient-centered approach to minimize potential risks