Shrinking avicel matrix

Hypotonic suspension

H₂O

H₂O

H₂O

H₂O

Adherence to nasal mucosa

Powder like

Isotonic suspension

Water diffuses with drug

H₂O

H₂O

H₂O

H₂O

Collapse of avicel matrix

• Longer retardation of ciclesonide on nasal mucosa
• High local ciclesonide concentration to increase its absorption into mucosal tissue
• Increased des-CIC in mucosal tissue

• Rapid clearance into esophagus with drug diffusion
• Insufficient ciclesonide absorption into nasal mucosa
• Lower concentration of ciclesonide and des-CIC in mucosal tissue