Minimal Invasive Dentistry: Foundational Articles and Recommendations


Background

Minimal invasive dentistry focuses on caries arrest procedures rather than surgical intervention. The strategies for minimal invasive dentistry include: early caries detection and caries risk assessment, remineralization of demineralized enamel and dentin, optimal caries preventive measures, minimally invasive surgical interventions, and repair rather than replacement of restorations.

IAPD Recommendations

1. Minimal invasive dentistry should be complemented by preventive measures for caries arrest that include topical fluoride exposure, and placement of pit and fissure sealants.
   Evidence-based recommendation > Global agreement N/A

2. The use of silver diamine fluoride (SDF) is effective in arresting cavitated caries lesions.
   Evidence-based recommendation > Global agreement N/A

3. Minimally invasive approaches such as infiltration methods are effective in the management of non-cavitated approximal dentinal lesions.
   Consensus-based recommendation > Global agreement 82%

4. When necessary, surgical interventions should emphasize minimal cavity designs, conservative removal of carious dentin approximating the pulp, and adhesive restorative materials to restore form and function.
   Consensus-based recommendation > Global agreement 78%