

Miniscrew Assisted Slow Expansion of Mature Sutures

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- Background
 - History of maxillary expansion
 - Expansion and its effects
 - Sutural changes with age
 - Expansion in adults
 - Proposed impediments to adult expansion
 - Sutural Complexity (interdigitation)
 - Sutural fusion
 - Decreased/altered cellularity and adaptability
 - Circummaxillary Sutures
- Experimental design
 - Timeline
 - Surgical procedure
 - Measurements
 - Mini screw implants
 - Bone markers
 - MicroCT
 - Fluorescent bone labeling
 - H&E and TRAP staining
- Results
 - Changes over time
 - 2D/3D analysis
- Discussion
- Conclusions
 - Sutural separation is possible in mature rabbits
 - Separation is limited, indicating involvement of other sutural articulations