Scientific Research



Search Keywords, Title, Author, ISBN, ISSN

Home	Journals	Books	Conferences	News	About Us	s Job
Home > Journal > Biomedical & Life Sciences Medicine & Healthcare > OJVM					OJVM Subscription	
Indexing View Papers Aims & Scope Editorial Board Guideline Article Processing Charges					Most popular papers in OJVM	
OJVM> Vol.2 No.4, December 2012					About OJVM News	
OPEN @ACCESS Morphology of the Temporomandibular Joint (TMJ) of Sheep (Ovis aries) PDF (Size: 362KB) PP. 242-244 DOI: 10.4236/ojvm.2012.24039 Author(s) Amol S. Patil, Gunit K. Bindra ABSTRACT The detailed anatomy of TMJ of sheep was explored so that it could be used as an experimental animal for study of condylar growth. The experimental animal was a 3 month old sheep, head of which was procured from a local abettor. The results showed that the sheep is an excellent experimental model for the study of condylar growth, with and without the use of functional appliances, because of similarity in anatomy related to size, shape and position of the condyle to that of human beings. Thus, it is concluded that the study will help future investigators in the field of dentistry to consider the sheep as an experimental animal for further research.					Frequently Asked Questions	
					Recommend to Peers	
					Recommend to Library	
					Contact Us	
					Downloads:	9,960
					Visits:	64,996
					Sponsors >>	
KEYWORDS Sheep; TMJ; Condyl	e					
Cite this paper A. S. Patil and G. K Journal of Veterinary	. Bindra, "Morphology o <i>Medicine</i> , Vol. 2 No. 4, 2	f the Temporomandib 2012, pp. 242-244. dc	ular Joint (TMJ) of Sheep i: 10.4236/ojvm.2012.240	(Ovis aries)," Open)39.		
References						

- S. J Maynard and R. J. G. Savage, "The Mechanics of Mammalian Jaws," School Science Review, Vol. 40, No. 4, 1959, pp. 289-301.
- [2] F. Jochen, and G. Tomasz, " On the Development, Morphology and Function of the Temporomandibular Joint in the Light of the Orofacial System," Annals of Anatomy—Anatomischer Anzeiger, Vol. 189, No. 4, 2007, pp. 314-319. doi:10.1016/j.aanat.2007.02.024
- [3] R. Sprinz, " A Note on the Mandibular Intra-Articular Disc in the Joints of Marsupialia and Monotremata," Proceedings of the Zoological Society of London, Vol. 144, No. 3, 1965, pp. 327-338. doi:10.1111/j.1469-7998.1965.tb05185.x
- [4] S. W. Herring, "TMJ Anatomy and Animal Models," Journal of Musculoskeletal and Neuronal Interactions, Vol. 3, No. 4, 2003, pp. 391-394.
- [5] S. W. Herring, J. D. Decker, Z. J. Liu, and T. Ma, "The Temporomandibular Joint in Miniature Pigs: Anatomy, Cell Replication, and Relation to Loading," The Anatomical Record, Vol. 266, No. 3, 2002, pp. 152-166. doi:10.1002/ar.10049
- [6] A. Bermejo, O. González, J. M. and González, "The Pig as an Animal Model for Experimentation on the Temporomandibular Articular Complex," Oral Surgery, Oral Medicine, Oral Pathology, Vol. 75, No. 1, 1995, pp. 18-23. doi: 10.1016/0030-4220(93)90399-0
- [7] J. J. Thomson, L. E. Grovum, A. G. Deswysen, and W. W. Bignell, "In Vivo Surface Strain and Stereology of the Frontal and Maxillary Bones of Sheep: Implications for the Remodeling and Mechanical Optimization of Cranial Bones," The Anatomical Record, Vol. 264, No. 4, 2001, pp. 325-338.