Motion preservation in cervical prosthesis surgery: Implications for adjacent segment degeneration

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Stellingen behorend bij het proefschrift getiteld

Motion Preservation in Cervical Prosthesis Surgery

By Xiaoyu Yang

1. Maintaining range of motion after cervical discectomy does not prevent adjacent segment degeneration.
   – *This thesis*
2. Heterotopic ossification is a common phenomenon after cervical arthroplasty, but it does not influence clinical outcome.
   – *This thesis*
3. Modic changes in cervical spine are not associated with neck or arm pain.
   – *This thesis*
4. The size of cervical disc herniation on MRI does not correlate to clinical condition.
   – *This thesis*
5. Cervical disc prosthesis does not provide superior clinical outcome in comparison with interbody fusion, with or without an intervertebral cage.
   – *Vleggeert-Lankamp CLA et al., The Spine Journal. 2019 Jun;19(6):965-975*
6. The macrophages play an active role in reducing disc herniations and pain medication.
   – *Djuric N et al., Acta Neurochirurgica. 2019 Dec 4*
7. Stem cell therapy is an interesting option to study in the process of intervertebral disc regeneration and may prevent mankind from shrinking upon aging.
   – *Sakai D et al., Nature Reviews Rheumatology. 2015, 11(4):243-56*
8. Artificial intelligence applied to spine diagnostic results has the potential to specify the diagnosis and improve the decision-making process of clinicians.
   – *Lu J-T et al., Proceedings of Machine Learning Research. 2018, 85:1-16.*
9. The victory human claimed to nature, is the beginning of its punishment. Human should be in awe of nature.
10. No winter lasts forever, no spring skips its turn.
11. 心诚则灵。Genuineness leads to realization.