

Preclinical Assessment of Novel Radiopaque UHMWPE Sublaminar Wires in a Growth-Guidance System for Early Onset Scoliosis Correction

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Stellingen behorende bij het proefschrift getiteld:

**Preclinical Assessment of Novel Radiopaque UHMWPE Sublamina Wires
in a Growth-Guidance System for Early Onset Scoliosis Treatment**

Alex K. Roth, 10 februari 2017

1. Radiopaque UHMWPE kabels zijn voldoende veilig bevonden om toegepast te gaan worden binnen de 'early onset' scoliose correctiechirurgie. *(Dit proefschrift)*
2. Een optimale balans tussen minimale chirurgische invasiviteit en het aantal ingebrachte fixatiepunten is essentieel voor het succes van een groei-geleidingssysteem. *(Dit proefschrift)*
3. In de toekomst gaan computermodellen de chirurg ondersteunen met het preoperatief plannen van de optimaal in te brengen constructie bestaande uit schroeven, kabels en staven. *(Dit proefschrift)*
4. De ontwikkeling van een groot proefdiermodel voor 'early onset' scoliose is zeer complex en translatie van de verkregen resultaten naar de klinische situatie blijft beperkt. *(Dit proefschrift)*
5. Wil je voorkomen dat uitgevoerd onderzoek in de vergetelheid raakt, dan is het schrijven van een vervolg subsidieaanvraag een waardevollere exercitie dan een valorisatie hoofdstuk alleen.
6. "Failure is central to engineering. Every single calculation that an engineer makes is a failure calculation. Successful engineering is all about how things break or fail."
–Henry Petroski
7. "Ik ben er nog steeds van overtuigd dat zoals ik het doe, je het moet doen want anders zou ik het niet doen." –Johan Cruijff
8. "Wear sunscreen. If I could offer you only one tip for the future, sunscreen would be it. The long term benefits of sunscreen have been proven by scientists whereas the rest of my advice has no basis more reliable than my own meandering experience." - Mary Schmich
9. "Failure is an option here. If things are not failing, you are not innovating enough."
- Elon Musk
10. "The superior man is modest in his speech, but exceeds in his actions."
– Confucius