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Interlaminar/Interspinous and facet joint stabilization system in lumbar DDD: Preliminary results

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Introduction: In the last years from the interspinous devices for motion preservation to treat the DDD in lumbar spine, many companies are shifted to devices for fusion. The aim of this presentation is to introduce a new system for Interlaminar/ interspinous and facet joints stabilization and fusion. This new device is very different from the other in the market for these.

Reasons:

- Double system for primary stability of the device (Interspinous/ interlaminar and facet joints).
- Contact bone to bone and not bone titanium to obtain a sort of biologic fusion
- A ligament to compress the bone and restore the lordosis.

Material and Methods: Then patients were operated on with this new device (CEE Approved) for Lumbar DDD with initial instability due to a loss of disc and ligament compliance after the failure of conservative treatment for a minimum of 6 months. In all the cases any other surgical procedure, like bone or soft tissue decompression, was added. The titanium scaffolds were filled by bone chips.

Results: The authors present the preliminary results of this new system. The evaluation from radiological (X-Ray and CT Scan) and clinical (VAS and QOL test) point view was performed the day after the surgery and at 1 and 3 months. No major complications were described intra or after the

surgery at moment. Good results were achieved in 88% of the patients with a percentage of fusion and stability at 93%.

Conclusion: A biggest number of patients and a longer follow up will be for sure requested to validate completely this new device, but these preliminary results must be considered very interesting.

Speaker Biography

Giancarlo Guizzardi is staff at Neurosurgical Department of the University and City Hospital of Florence (Chief of the Spine Surgery Section to December 2015) since September the 1st 1977. He is Specialist in Neurosurgery, Neurophysiopathology and Sport's Medicine. From the beginning of 80's he devoted his surgical activity especially to the surgical procedures of the degenerative, traumatic and Neoplastic pathology of the spine (about 7000 procedures). He published about 90 papers and chapters in the most important Italian and international medical journals and books. He was invited as speaker, chairman and organizer to the most prestigious Italian and international meetings of spinal surgery. He invented and developed new devices, protocols and min-invasive approaches in "non-fusion" technologies in Degenerative Disk Disease of the Spine. Since 2002 he is agreement professor of the School of Medicine and Surgery at Florence University. He is in the editorial board of the "European Spine Journal", member of the editorial board of "Journal of Neurosurgical Sciences", of "World Neurosurgery", of "Asian Spine Journal", of the "World Spine Column Journal" and of the "Journal of Spinal Surgery". He is also corresponding member of the Society of South America Neurosurgical Societies, Honorary lifetime member of the Neuro Spinal Surgeons Association of India, active member of the EANS (European Association Neurosurgical Society), SINch (Italian Neurosurgical Society), GIS (Italia Spine Society), Eurospine (European Spine Society) and NASS (North American Spine Society). From December 1st, 2015 moved the surgical activity from Florence to the "Tuscany Surgical Hospital" in Arezzo where is the Head of the Spine Surgery Activity. From December 2016 "Guest Professor" by the first Affiliated Hospital of Zhejiang Chinese Medical University.

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