Lumbal Spondylodese

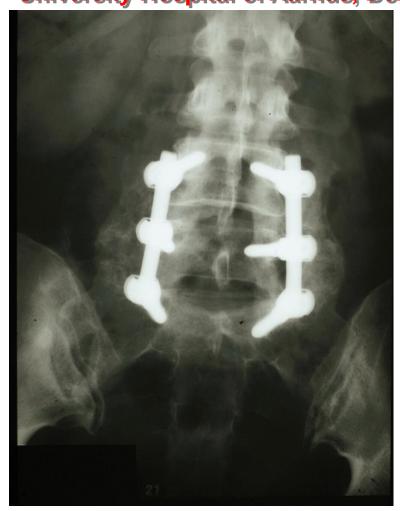
Symposium 21/3/2011

Lumbal Spondylodese Indikationer

- Spondylolisthese
- DDD/spondylose
- Postdiscectomi syndrom
- Fraktursequelae
- Skoliose
- Spinalstenose

Udredning. Effekt af konditionstræning. Mekaniske versus neurogene smerter. (Rtg, Dynamisk Rtg, MR, Livskvalitets/smerte-score) Obs red flags

Randomized prospective Study in 148 pat. 1996 – 2000 University Hospital of Aarhus, Denmark.



CDI + autograft



Brantigan ALIF + autograft

.- Spine 2002, 2006, 2007, 2010

CONCENSUS BASED MEDICIN

VERSUS

EVIDENCED BASED MEDICIN

Clinical studies not necessary for CE marking

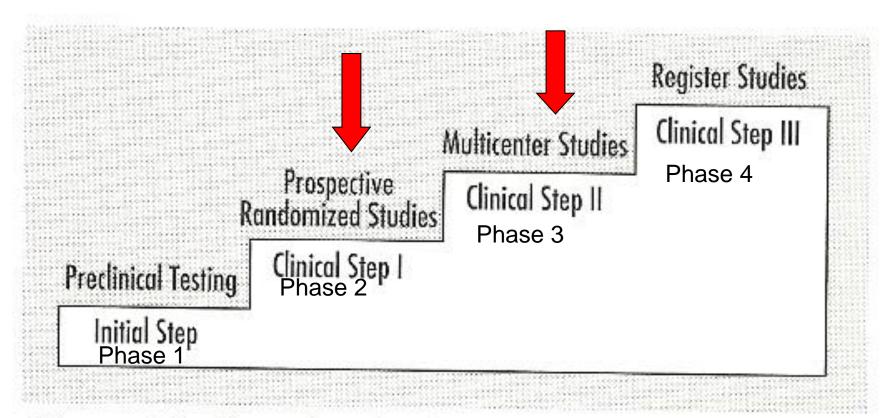
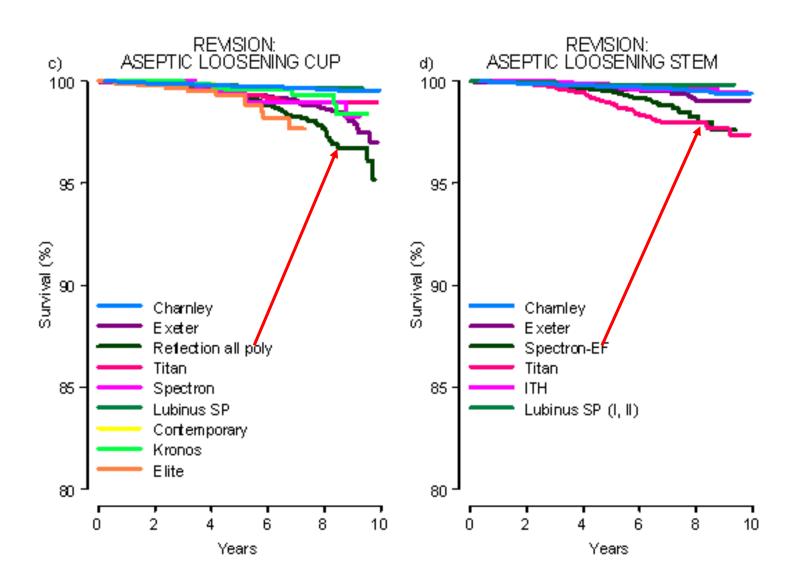


Figure 36: Algorithm for the stepwise introduction of new implants into clinical praxis.

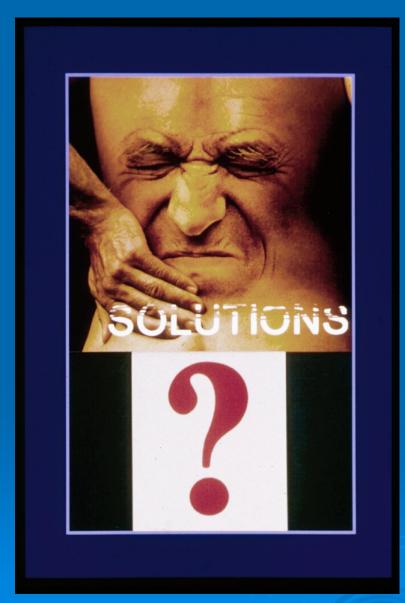
Henrik Malchou 1995

Cemented THA 1997-2007



Chronic Low Back Pain

Conservative treatment?



Surgery?

Surgical options:

- Disc surgery
- Decompression
- Disc arthroplasty
- Total disc prosthesis
- •Flexible intervertebral stabil.
- Fusion

Elements in Surgical Outcome

Patient selection Spinal fusion Surgical methods Growth factors

Regenerative Medicine

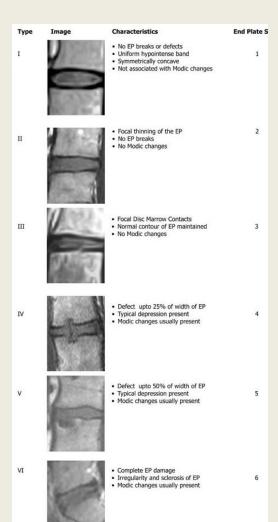
Degenerative Disc Disease (DDD)

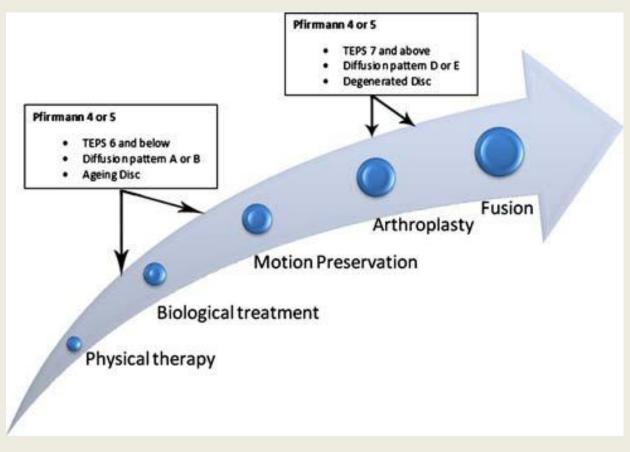




MRI of the Lumbar Spine





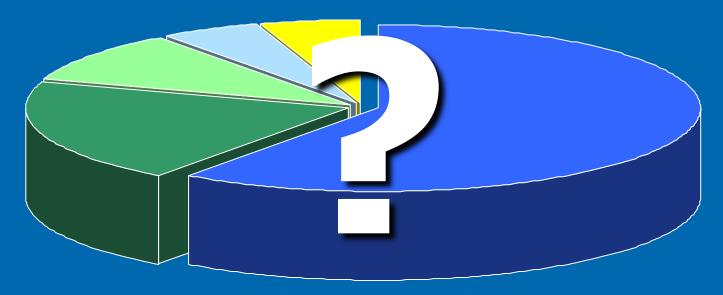


The spectrum of treatment available for symptomatic DDD by total endplate score (TEPS).

Rajasekaran S, et al. Eur Spine J. 2008



Costs of Orthopedic Disease



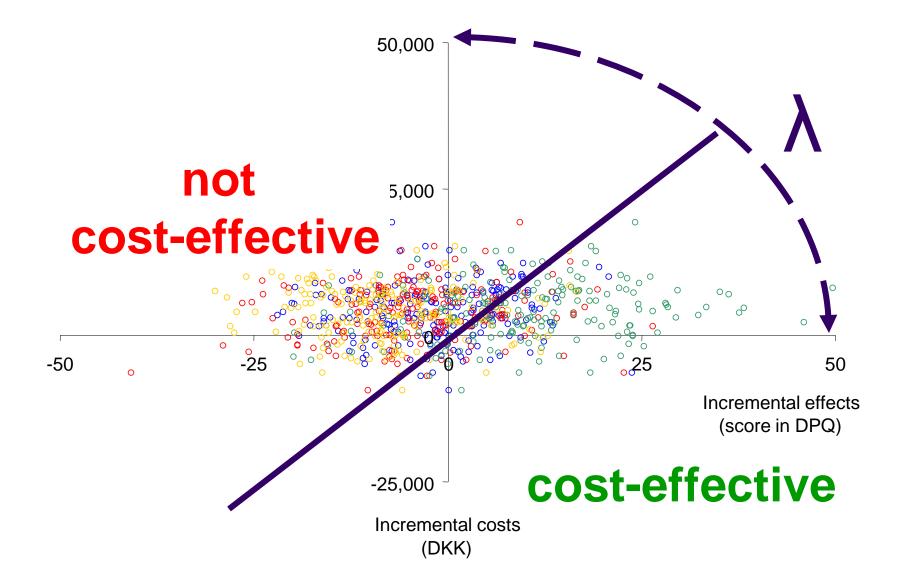
- Production loss from absenteeism and disability
- **Loss of health-related life-quality**
- Diagnostics, treatment, care and rehabilitation
- Patient's 'out-of-pocket' costs
- Informal care



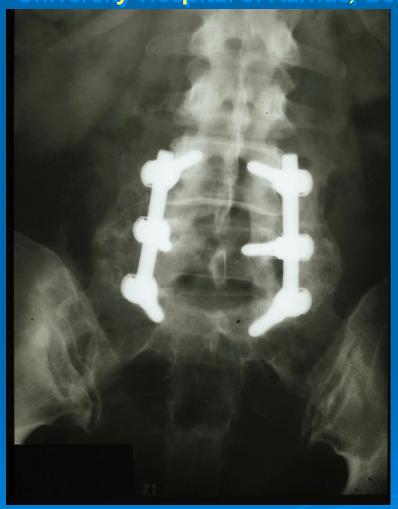


- Long term follow ups
- Outcomes measured by EQ-5D and converted into QALYs using weights of the general population (Dolan et al. 1996)
- Costs measured from a societal perspective and encompassed
 - Service utilisation in primary care
 - Service utilisation in secondary care
 - Patients' costs
 - Productivity costs

Incremental cost-effectiveness ratio



Randomized prospective Study in 148 pat. 1996-2000 University Hospital of Aarhus, Denmark.



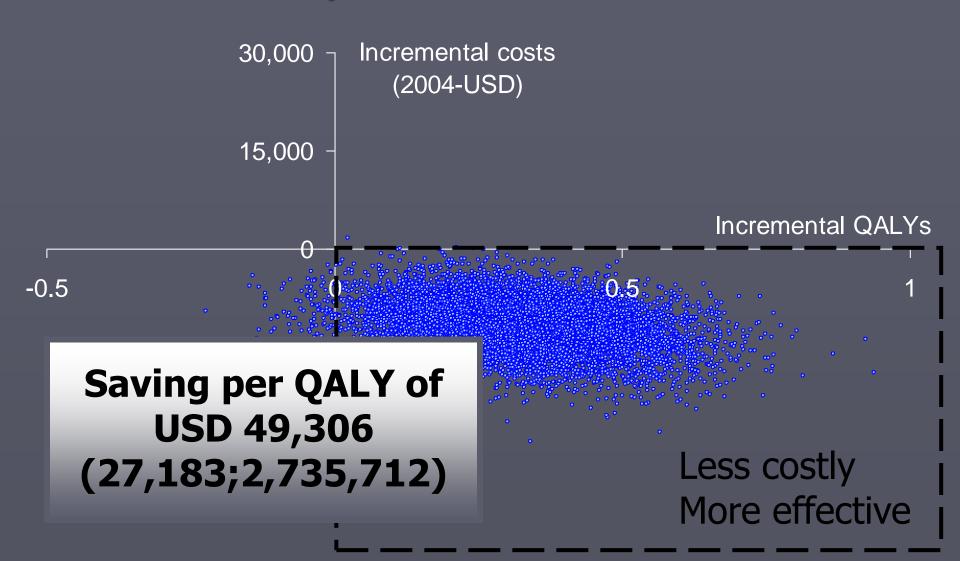
CDI + autograft

.- Spine 2002, 2006, 2007, 2010



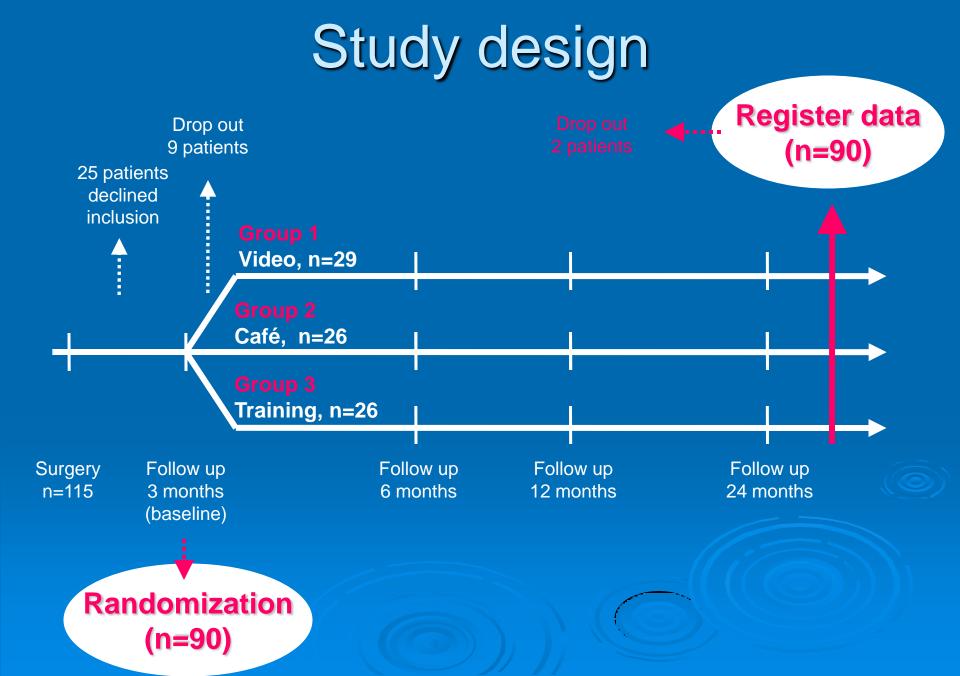
Brantigan ALIF + autograft

Cost-effectiveness of circumferential versus posterolateral fusion



REHABILITATION

AFTER SPINAL FUSION



Cumulative costs 24 months postoperatively

