



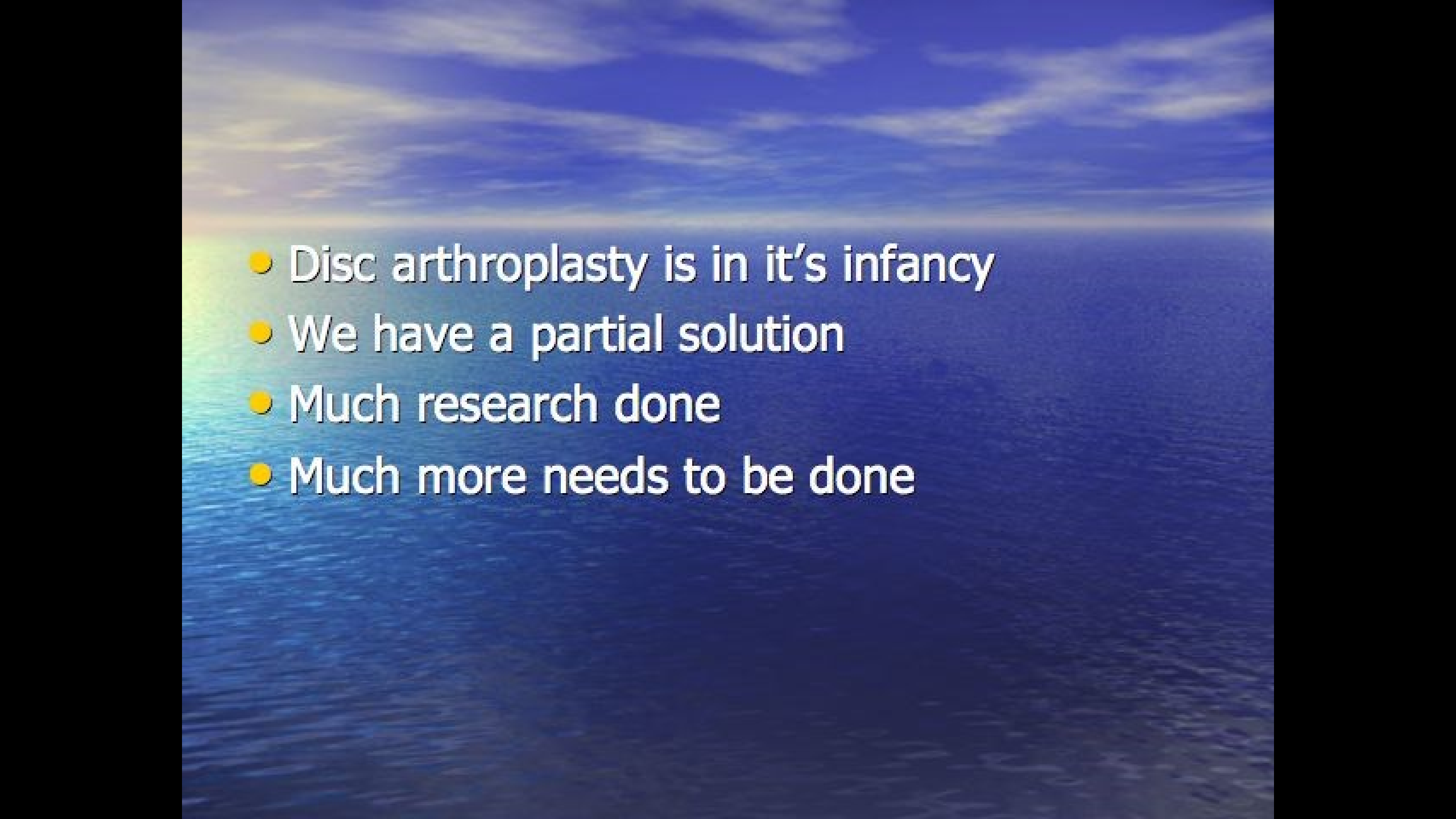
LUMBAR DISC ARTHROPLASTY PROS and CONS

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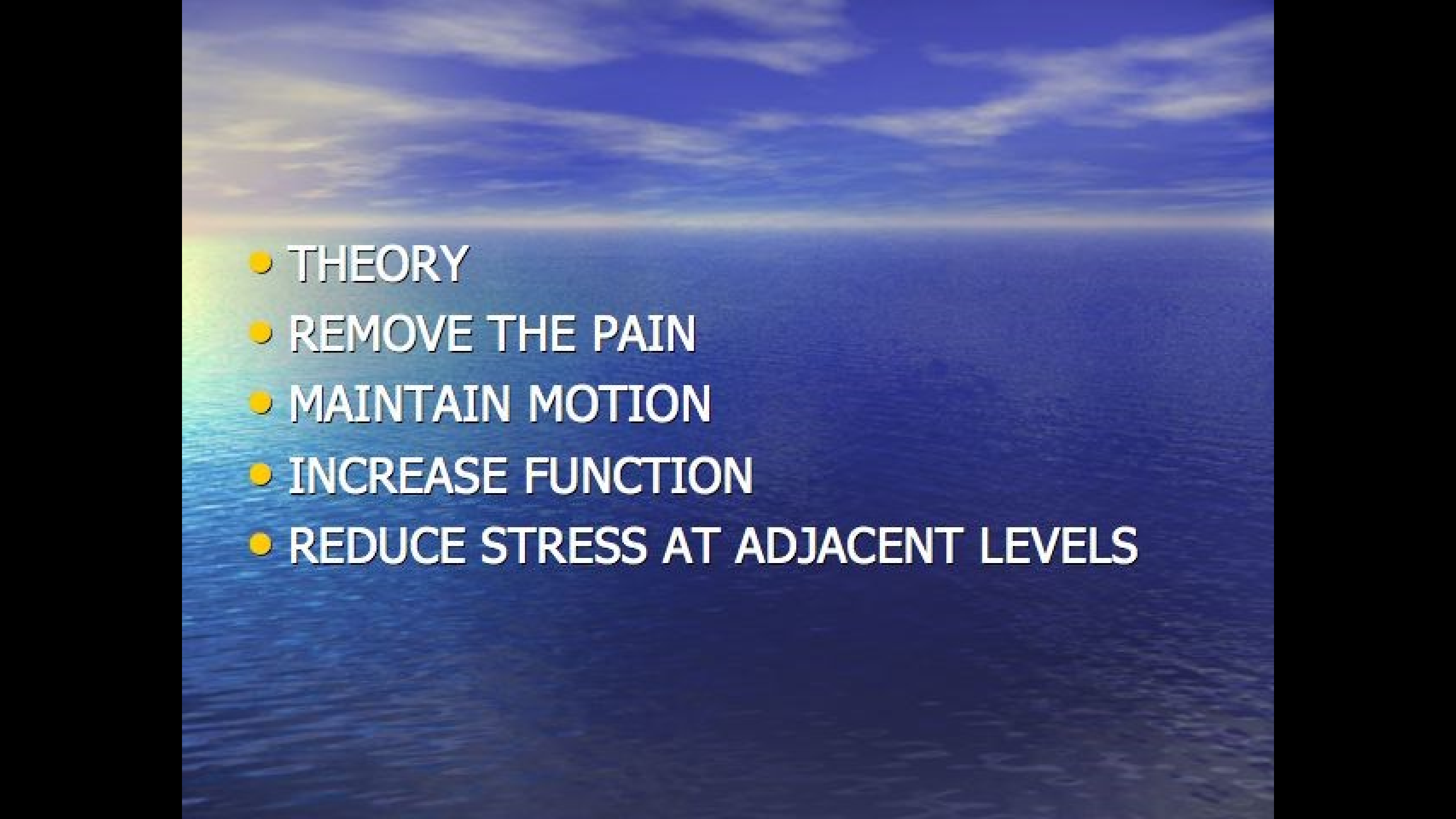
WHY DO TDR ?

- Decrease pain
- Increase function
- Prevent future/adjacent disease

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- Disc arthroplasty is in it's infancy
 - We have a partial solution
 - Much research done
 - Much more needs to be done

A wide-angle photograph of a calm ocean under a clear sky. The sun is low on the horizon, creating a bright, shimmering reflection on the water's surface. The sky is a deep blue with some light, wispy clouds. The word "PROS" is centered in the middle of the image in a large, white, sans-serif font with a subtle drop shadow.

PROS

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- THEORY
 - REMOVE THE PAIN
 - MAINTAIN MOTION
 - INCREASE FUNCTION
 - REDUCE STRESS AT ADJACENT LEVELS



CONS

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- **NARROW INDICATIONS**
 - **MANY CONTRAINDICATIONS**
 - **MANY RISKS**

INDICATIONS

- Discogenic back pain

CONTRAINDICATIONS (RELATIVE)

- Facet joint disease
- Previous surgery at the same level
- Osteoporosis
- Previous abdominal or pelvic surgery
- Multiple levels of disease

RISKS

- Vascular injury
- Displacement of device
- Device failure
- Difficult re-operation
- Salvage, revision, fusion ...

THE FUTURE LOOKS BETTER

- New/refined designs
- New approaches
 - lateral
 - posterior
 - minimally invasive
- Adjunctive procedures
 - facet joint replacement
 - posterior stabilization (DYNESYS)

ON THE HORIZON

- Annular repair
- Nuclear replacement
- Stem cell research

DO I DO LUMBAR DISC ARTHROPLASTY ?

- Yes
- Very few

MY BELIEF ...

- Great idea
- Needs a lot of work

A wide-angle photograph of a calm ocean under a vast, blue sky with wispy clouds. The sun is low on the horizon, creating a bright, shimmering reflection on the water's surface. The overall mood is peaceful and grateful.

THANK YOU