DISCLOSURES

• CONSULTANT AND DESIGN SURGEON FOR DEPUY ORTHOPEDICS

• MULTIPLE PATENTS

• ROYALTIES FROM DESIGN OF HIP PROSTHESES AND TRAUMA IMPLANTS
HIP TECHNOLOGIES AND TECHNIQUES

• BASIC UNDERSTANDING OF HIP PROBLEMS

• ALTERNATIVES TO REPLACEMENT

• RESURFACING

• MODERN HIP REPLACEMENT

• FAILED HIP REPLACEMENT

• WHAT’S NEW IN HIP FRACTURE TREATMENT
HIP TECHNOLOGIES AND TECHNIQUES

• BECOME A MORE EDUCATED CONSUMER

• BE AWARE OF WHAT IS AVAILABLE LOCALLY

• KNOW WHEN A SECOND OPINION IS PROBABLY A GOOD IDEA
BASIC HIP ANATOMY
THE YOUNG HIP

- MANY HIP PROBLEMS IN ADULTS START AT CHILDHOOD

- VARIOUS CHILDHOOD PROBLEMS CAN RESULT IN HIP SOCKETS ARE “TOO SHALLOW”

- HIP DYSPLASIA

- ACCOUNTS FOR 10% OR MORE OF HIP REPLACEMENTS IN THE ADULT POPULATION
HIP DYSPLASIA

- TREATED WITH BRACES IF DETECTED EARLY
- NEEDS SURGERY IF DETECTED LATE
- MAY NEED TO CUT THE PELVIS IN ORDER TO DEEPEN THE SOCKET
HIP DYSPLASIA

- EARLY DETECTION

- TREATMENT FOR ALL INFANTS??

- RESEARCH UNDERWAY AT THE INTERNATIONAL HIP DYSPLASIA INSTITUTE AT ORLANDO HEALTH
International Dysplasia Institute - Chad Price

No center of excellence specifically dedicated to hip problems exists

Can we provide more services for the lifetime of the patient?
International Hip Dysplasia Institute

Hip dysplasia is the medical term for instability of the hip joint that affects thousands of children each year. This ranges from mild instability to complete dislocation. Immediately after birth, 2-8% of babies who are otherwise normal have some hip instability and 2-3 per 1000 will require treatment.

Persistent hip instability is a silent childhood condition that frequently causes disability and arthrosis in adults.

But there is poor awareness of this condition outside the medical profession in spite of the frequency and the potential for life-long disability. Early diagnosis and simple treatment is the best solution but some cases are undetected or difficult to treat in spite of current methods of care. Also, many children around the World do not have access to early diagnosis and simple treatment as infants.

Larry the Cable Guy is committed to helping solve the problems of hip dysplasia by bringing attention to the need for research, education, and for new treatment solutions in the USA and in other less fortunate regions of the World. We are proud to have Larry as our spokesperson and major sponsor.

Learn more about the International Hip Dysplasia Institute
Study Protocol:
Prospective Observational Cohort Study of Children with Hips Dislocated at Rest
ALTERNATIVES TO JOINT REPLACEMENT

• Impingement

• Remove bone spurs

• Arthroscopy

• Joint preserving operations -- osteotomy
UNTREATED HIP DYSPLASIA
Arthroscopic procedure of the hip

- Acetabulum with labrum at the outer rim
- Femoral head
- Arthroscope
- Irrigation fluid and instruments
RESURFACING VS. REPLACEMENT
THE FUTURE OF HIP REPLACEMENT:

- The number of patients requiring total hip replacement is expected to be 500,000 by the year 2016.
- The workforce is shrinking (36%) in next 7 years.
- The workforce will be able to perform 250,000.
- My estimate, about 7,500 annually in Florida will have to “wait” for their hip replacement.
HIP RESURFACING

CONVENTIONAL TOTAL HIP
Hip resurfacing

Hip replacement

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TOTAL HIP ARTHROPLASTY
RECENT FADS

• MINIMALLY INVASIVE

• MUSCLE SPARING

• COMPUTER ASSISTED SURGERY (CAS)

• AKA “NAVIGATION”

• ACCURATE IMPLANTATION THROUGH SMALLER INCISIONS
Smaller MIS Incision vs. Larger Traditional Incision
DATA ON MINIMALLY INVASIVE THA

• GENERALLY FASTER REHABILITATION

• HIGHER RATE OF COMPLICATIONS

• RECENT STUDIES SHOW NO BENEFIT OF TWO INCISION SURGERY OVER TRADITIONAL APPROACHES PERFORMED THROUGH SMALLER INCISIONS

• “MINI-POSTERIOR” A GOOD CHOICE
WHAT TYPE OF HIP IS BEST?

• MOST ARE FIXED WITHOUT THE NEED FOR BONE CEMENT

• BEARING SURFACE ISSUES:
  • CERAMIC
  • POLYETHYLENE (PLASTIC)
  • METAL ON METAL
  • ??? DIAMOND BEARINGS
BEST BEARING SURFACE?

- **POLYETHYLENE**  LONGEST TRACK RECORD
- NEW ANTIOXIDANTS WITH CROSSLINKING ARE PERFORMING WELL SO FAR

- **CERAMIC ON CERAMIC**  LOWEST WEAR, BUT CHIPS, BREAKAGE AND SQUEAKING OCCUR

- **METAL ON METAL?**  RECENT CONCERN WITH METAL ALLERGIES AND REACTIONS, RECENT RECALLS??  CONCERNS REMAIN
TOTAL HIP REPLACEMENT ANIMATION
THE FAILED HIP REPLACEMENT??
HIP TECHNOLOGIES AND TECHNIQUES

• Another massive PROBLEM facing the next generation is the “failed” joint replacement

• ALL joints fail eventually

• Workforce of specialists will shrink about 36% by 2016

• Centers with expertise in failed total joints will be very hard to find. Expect a long wait.....
COMPUTER DESIGNED CUSTOM IMPLANTS
WHAT’S NEW IN HIP FRACTURE SURGERY?
WHAT’S NEW IN HIP FRACTURES?

- GERIATRIC FRACTURE SERVICES – COOPERATION WITH INTERNAL MEDICINE, CARDIOLOGY, AND ANESTHESIA
- LOWER COMPLICATION RATES
- EARLIER DISCHARGE
- BETTER OUTCOMES AT LOWER COST
WHAT’S NEW IN HIP FRACTURES

• FIXATION OF FRACTURES WITH MINIMALLY INVASIVE TECHNOLOGIES

• TITANIUM NAILS

• TITANIUM SCREWS

• REINFORCE REMAINING BONE

• OSTEOPOOROSIS MANAGEMENT
FAILED SCREW FIXATION OF A HIP FRACTURE
SUMMARY

• WIDE SPECTRUM OF HIP PROBLEMS THAT ARE BEING TREATED WITH EXCITING NEW HIP SURGERY TECHNIQUES AND TECHNOLOGIES

• SEEK OPINIONS FROM CENTERS WITH EXPERTISE IN ALL THESE OPTIONS

• CAUTIOUSLY ADOPT NEW TECHNOLOGIES

• BE AN EDUCATED CONSUMER BEWARE FADS
THANK YOU