The Case for Metal on Metal

- Lessons learned from the past:
  - Initial results of MOM by McKee (1950's)
  - Experience at HSS with the McKee-Farrar
- Conclusions:
  - Loosening seen was due to prosthetic impingement (Walker & Salvati)
  - NO Metallosis observed!
Spinal Degenerative Conditions Cascade

- HNP
- DDD
- LSS
- Degenerative Spondylolisthesis
- Adult Scoliosis
# Social Media and Its Impact on Orthopaedics

Moderators—Daniel S. Rich MD; Edward V Craig MD, MPH

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<tr>
<td>Jon L. Hyman MD, PC</td>
<td>Founder Orthomind</td>
<td>Virtual Practice Community</td>
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<td>Joshua S. Dines MD</td>
<td>Hospital for Special Surgery</td>
<td>Effects of Social Media on How We Learn and Teach</td>
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<td>Ernie Liang MBA</td>
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<td>Emerging Digital Technologies and Their Impact</td>
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EMERGING DIGITAL TECHNOLOGIES AND THEIR IMPACT ON ORTHOPAEDICS

November 10, 2012

Ernie Liang, MBA
President, Classroom24-7
eliang@classroom24-7.com
Total Joint Replacement and Osteolysis

TJR is highly successful......

But prosthetic materials are subject to wear.

...and wear products can elicit adverse tissues reactions that lead to peri-articular tissue damage and osteolysis.
ALTR in THA Implants

- ALTRs are often associated with severe tissue destruction and poor outcomes after revision (JBJS-B 2009)
- Imaging of osteolysis:
  - MRI more sensitive than x-ray (JBJS 2004: 86A:1471-54)
  - MRI most accurate means to quantify and locate osteolysis around THA (CORK 2005: 137:138-144)
- ALTRs can exist in asymptomatic, well functioning arthroplasties
- A noninvasive mode of early detection is warranted
  - Previous observational MRI classification systems have not correlated MRI findings to either operative findings or histology
Currently There is “M/M Hysteria” Fueled by:

- Multiple Articles describing ALTR and Metal ion-related studies:
  - Pubmed search: “metal ion levels hip”
    - 224 papers (142 since 2008)
  - Pubmed search: “Pseudotumor” and “hip”
    - 84 papers (64 since Pandit et al. - JBJS Br 2008)
- Recall of ASR and Lawyer adds
- MHRA Medical device alert (2010-updated 2012)
- FDA recommends Post Market Surveillance (5/6/11)
Concept of Hip Preservation:

- Preservation of the joint space and cartilage surfaces
- Identifiable mechanical source of hip pathology
- The Hip at Risk...
Diagnostic imaging

- Techniques to assess degree of injury
Nerve Transfers for the Upper Extremity: New Horizons in Nerve Reconstruction

Steve K. Lee, MD
Scott W. Wolfe, MD
Distinguished Alumnus Award

Presented to

Paul A. Lotke, MD

For having shown leadership in his field and given meritorious service to Hospital for Special Surgery

November 4, 2013
Pier Giorgio Marchetti, MD
Award for International Achievement

Presented to
Ching-Chuan Jiang, MD, PhD, MBA

In recognition of outstanding lifetime achievement in orthopaedic surgery by an international fellow who trained at Hospital for Special Surgery

November 10, 2012

[Signature]