Egyptian Community Arthroplasty Register

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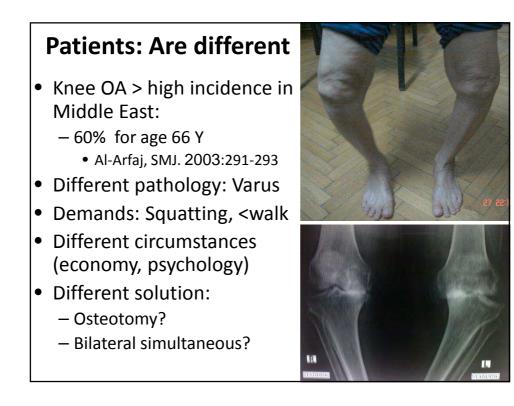
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2nd Int. Congress of Arthroplasty Registries (ISAR), Stratford Upon Avon, UK, 1-3 June 2013



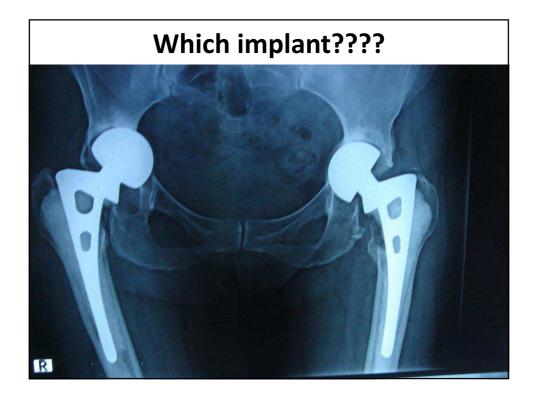
Why a register in Egypt?

- Who on earth bother?
 - What are y talking about?
- But because of factors related to
 - Patients
 - Implants
 - Hospitals
 - Country
 - Personal



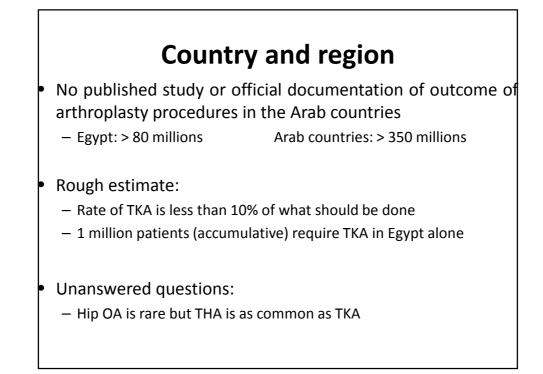
Implants

- Medical device alert: X
 A hip resurfacing implant recall arrived late
- Unknown and low cost implants
- No stock in hospitals: A company Rep (per case)
- Quality of known implants: Shelf life, sizes, etc
- Economic limitations: Reduced cost
 - Offset towards bad cement



Hospitals

- Dedicated arthroplasty theatre (OR): X
- Laminar flow: X
- Space gown: X
- Antibiotics: Excessive
- Health care systems: Efficiency?



Personal reasons

• A study of 400 TKA in 1994 at W Sussex

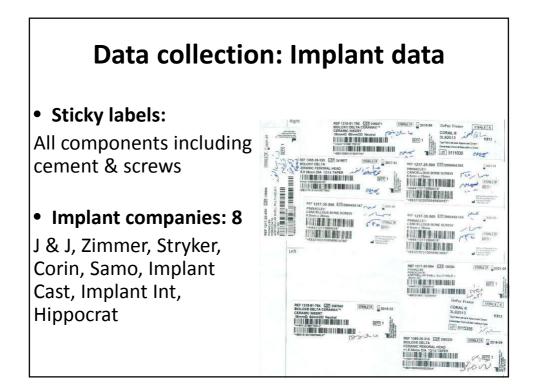
- Comparing PROMS to clinical follow up
- Results: Surgeons high-rated the success of TKA
 - JBJS-Br Supp 2004
- I used British & Canadian registry during my training
- I believe in "Arthroplasty Register"

Materials and methods

- The register started by one surgeon (MAH): 2007
- Then joined by 6 surgeons in 6 different hospitals
- The registry proforma designed in 3 pages; pre-, intra- and post-operative (clinical follow up not PROMS)
- This initial analysis of 503 cases

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Procedures					
Primary TKA	Primary THA				
Uni-compartmental	Resurfacing hip arthroplasty				
Revision TKA	Revision THA				
Navigational TKACustom made TKA (PSI)	Cemented, hybrid, uncemented				
Shoulder arthroplasty	Bearing surfaces (poly, metal & Ceramic)				



Results THA

Mean age was 51 years (19-86 Female to male ratio was 1.15: 1

Uncemented THA 84.8 % Cemented 10.2 Hybrid THA .5%

Primary THA 49 % **Complex primary 30 %** Revision 21%

Results: TKA

- A female to male ratio was 3.14: 1
- The main indication was OA in 73 %
- Severe varus in 47%
 Significant bone defect in 15%
- 68.06% primary
- 25.13% complex primary
- 6.81% revision arthroplasty

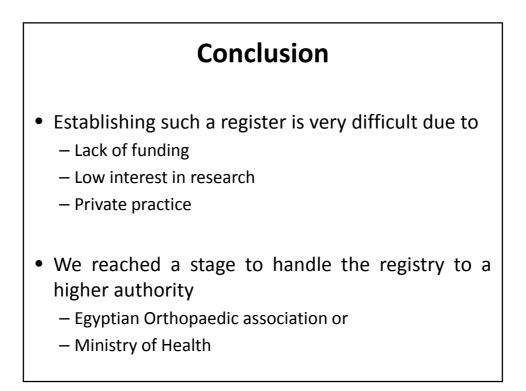
Limitations

- Small number
- Initial analysis predominantly related to one surgeon (MAH), not representative of the region
- No PROMS
- Some missing data
- Statistics: No survival analysis yet



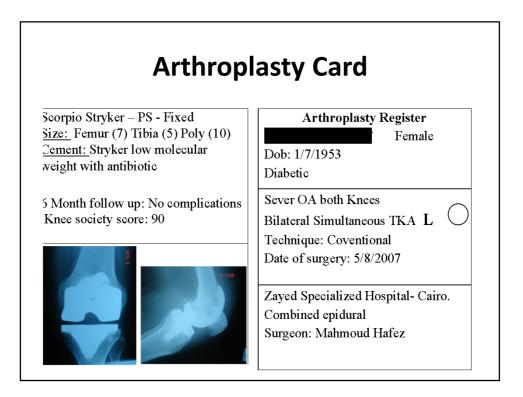
• However,

- Some results are not surgeon dependent:
 - Patients' age for THA,
 - Indications for THA (ped. hip diseases, failed ORIF of # NoF, AVN and trauma rather than OA)
 - The high % of complex THA & TKA due to late presentation and complex pathology
- Results related to implants.....



Is the registry an <u>AUDIT</u> or just a research project

- Blood transfusion reduced to 5 % in unilateral knee
- More bilateral TKR and shorter hospital stay
- Implant selection:
 - Low cost implant for less active patients
 - Be careful about cement
- Reassurance about lack of laminar flow, space gowns and dedicated OR
 - Infection rate is less than 2 %
- Knee & hip class: Misconception, expectations, fear



Future

- Premature baby
 May survive with support or may vanish
- Operation walk-Egypt
 - A fund from a local Charity to perform 1000 TKA free for needy patients from deprived and poor areas in Egypt
 - Outcome results should be published
 - All will be included in the register
- Electronic data collection

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No conflict of interest

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