Red and Wet ???
Oh My God .... What Now??

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Wound Complications in Arthroplasty
- The Problem
- The Patient
- The Surgeon
- The Solution
- The Future
Readmission after Arthroplasty

• Wound complications

Diagnostics

• Preoperative Medical Conditions
  - Diabetics
  - Rheumatoid Arthritis
  - Smoking
  - Malnutrition

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### Unplanned Readmission After Total Joint Arthroplasty: Rates, Reasons, and Risk Factors

N = 10366
The Effect of Smoking on Short-Term Complications Following Total Hip and Knee Arthroplasty

Pack Year = Complication Risk

Risk Factors: Metabolic Syndrome

Effect of BMI on Reoperation Rate

Effect of Bo on Reoperation Rate

All Hips: Reoperation
Each Day of prolonged wound drainage increases the infection Risk by 29 %
Patel et al JBI A 2007

Elevated Postoperative Blood Glucose and Preoperative Hemoglobin A1C Are Associated with Increased Wound Complications Following Total Joint Arthroplasty

Glucose postop > 200 mg/dl
Hb A1C > 6.7 %

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Infected TJR – Surgeon Factor

• "Quantification...is difficult and emotionally laden"
  (Hanssen 1996)
• Prolonged operative time correlates with increased infection rates (Peersman et al 2005)
• Tissue handling
• Haemostasis
• Choice of suture
• Careful closure etc etc

Wound Complications Following Rivaroxaban Administration
A Multicenter Comparison with Low-Molecular-Weight Heparin for Thromboprophylaxis in Lower Limb Arthroplasty
Soft Tissue Handling
- Exposure
- Haemostasis
- Skin Flaps
- Watertight Closure
- Tourniquet?

Watertight Closure

V sign

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The Future is Soft
The Future: Finetuning

- Preoperative assessment
- Anticoagulation Therapy
- Postop Surveillance

Stronger Together

- Surgeon
- Operating Room staff
- Physiotherapist
- Woundcare nurse
- Plastic Surgeon
- General Practitioner

How aggressive ????

Thank You