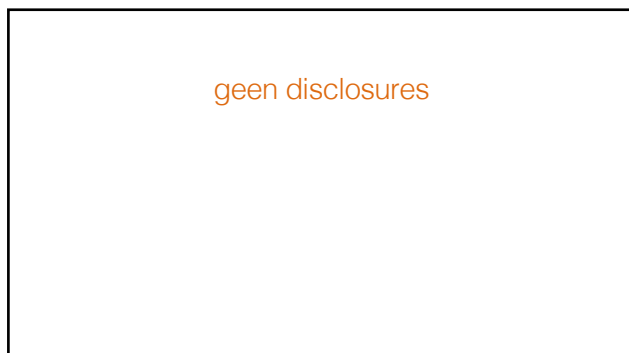


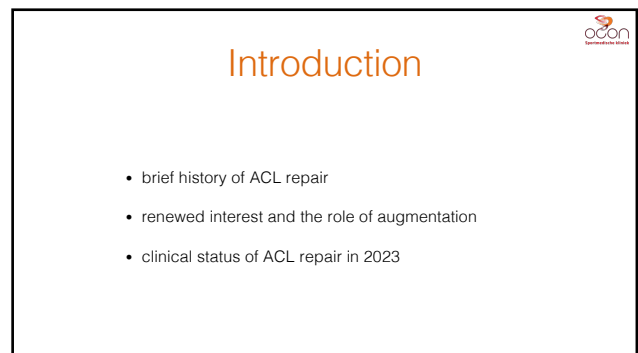
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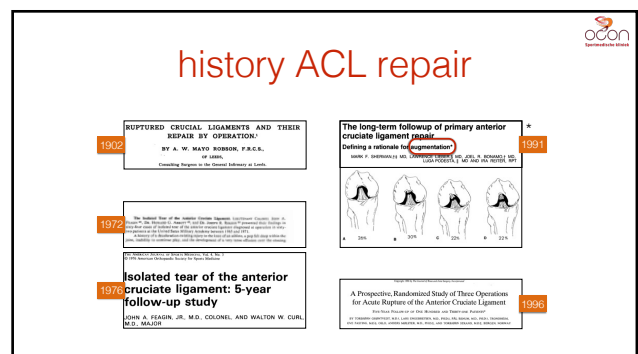
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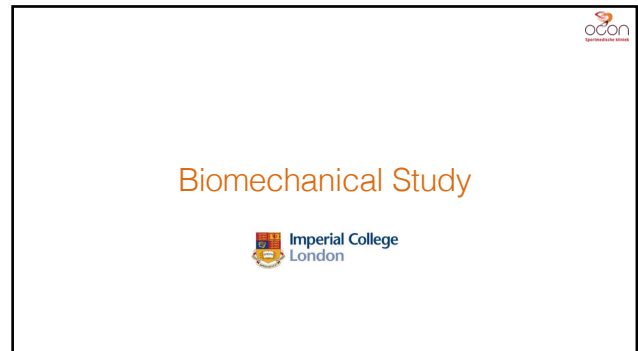
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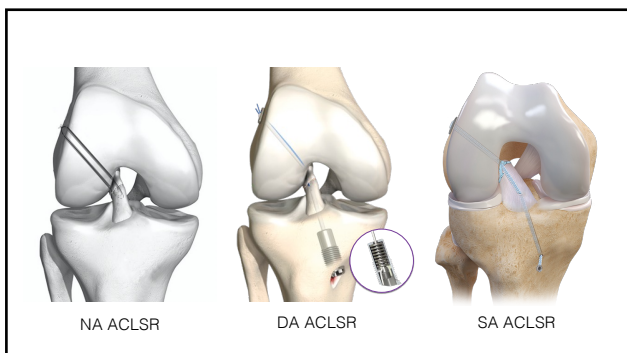
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13



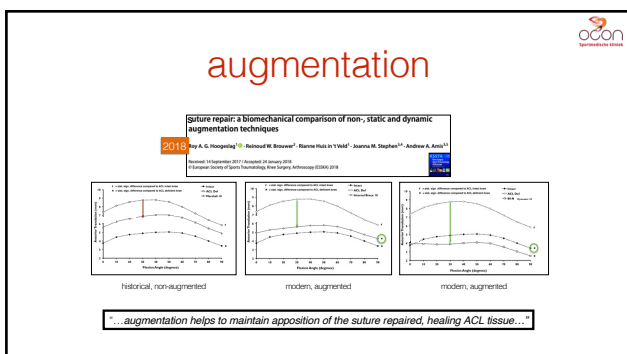
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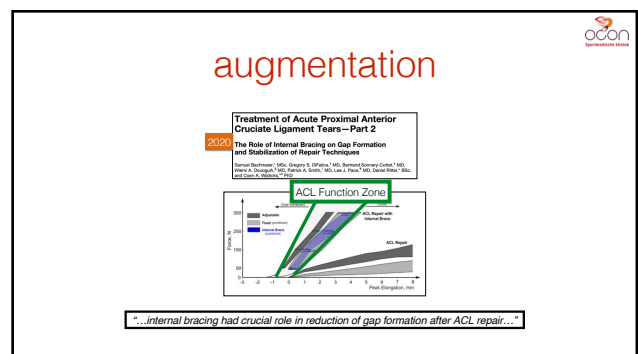
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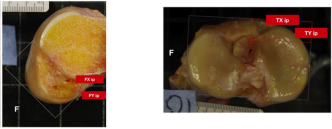
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augmentation

2020 isometric placement of the augmentation braid is not attained reliably in contemporary ACL suture repair

Boj A.G. Hoogendoorn^{1,2,3}, Reinoud W. Brouwer^{1,2}, Rianne Huis in 't Veld^{4,5}, Andrew A. Amis^{4,5,6}

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“...isometric combined tunnel position could not be attained reliably...”

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Systematic Review

ocon Orthopedische kliniek Martini Ziekenhuis

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systematic review

2020 Efficacy of Nonaugmented, Static Augmented, and Dynamic Augmented Suture Repair of the Ruptured Anterior Cruciate Ligament

A Systematic Review of the Literature

Boj A.G. Hoogendoorn^{1,2,3}, Reinoud W. Brouwer^{1,2}, Rianne Huis in 't Veld^{4,5}, Andrew A. Amis^{4,5,6}, PhD, Fabian C. Blum^{1,2}, MD, and Rianne Huis in 't Veld^{4,5}, PhD
 Investigation performed at Centre for Orthopaedic Surgery OCON, Hengelo, the Netherlands

- 2015-2019: n=31 (augmented: 26)
- “...overall low level and quality of evidence...”
- 6/7 comparative studies: **no difference**
- only one level 1 study (RCT) with 2yr fu, but: **no difference**

“... more high quality research, larger population, longer follow-up...”

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RCT

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RCT modern ACLSR

Acute Anterior Cruciate Ligament Rupture
 Repair or Reconstruction? Five-Year Results of a Randomized Controlled Clinical Trial

Boj A.G. Hoogendoorn^{1,2,3}, Reinoud W. Brouwer^{1,2}, Rianne Huis in 't Veld^{4,5}, Andrew A. Amis^{4,5,6}, PhD, Fabian C. Blum^{1,2}, MD, and Rianne Huis in 't Veld^{4,5}, PhD
 Investigation performed at Centre for Orthopaedic Surgery and Sports Medicine OCON, Hengelo, the Netherlands



“...non-inferiority remains inconclusive...”

“...however, no statistically significant differences for any of the outcome parameters...”

“...ACL repair might be a viable treatment option in acute ACL rupture...”

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RCT's modern ACLSR

Acute Anterior Cruciate Ligament Rupture: Repair or Reconstruction? Two-Year Results of a Randomized Controlled Clinical Trial

Boj A.G. Hoogendoorn^{1,2,3}, Reinoud W. Brouwer^{1,2}, Rianne Huis in 't Veld^{4,5}, Andrew A. Amis^{4,5,6}, PhD, Fabian C. Blum^{1,2}, MD, and Rianne Huis in 't Veld^{4,5}, PhD
 Investigation performed at Centre for Orthopaedic Surgery and Sports Medicine OCON, Hengelo, the Netherlands

Repair With Dynamic Intraligamentary Stabilization Versus Primary Reconstruction of Acute Anterior Cruciate Ligament Tears

Boj A.G. Hoogendoorn^{1,2,3}, Reinoud W. Brouwer^{1,2}, Rianne Huis in 't Veld^{4,5}, Andrew A. Amis^{4,5,6}, PhD, Fabian C. Blum^{1,2}, MD, and Rianne Huis in 't Veld^{4,5}, PhD
 Investigation performed at Centre for Orthopaedic Surgery and Sports Medicine OCON, Hengelo, the Netherlands

Bridge-Enhanced Anterior Cruciate Ligament Repair Is Not Inferior to Autograft Anterior Cruciate Ligament Reconstruction at 2 Years

Boj A.G. Hoogendoorn^{1,2,3}, Reinoud W. Brouwer^{1,2}, Rianne Huis in 't Veld^{4,5}, Andrew A. Amis^{4,5,6}, PhD, Fabian C. Blum^{1,2}, MD, and Rianne Huis in 't Veld^{4,5}, PhD
 Investigation performed at Centre for Orthopaedic Surgery and Sports Medicine OCON, Hengelo, the Netherlands

small but increasing body of high quality and level of evidence: modern ACL repair = ACLR

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ACL repair in 2023

- There might be a role for modern ACL repair in treatment of ACL rupture
- Augmentation with a small diameter braid parallel to the repaired ACL seems key
- Repair of proximal ACL ruptures is likely to give better outcome
- Only perform ACL repair in trial setting (NOV guideline)



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