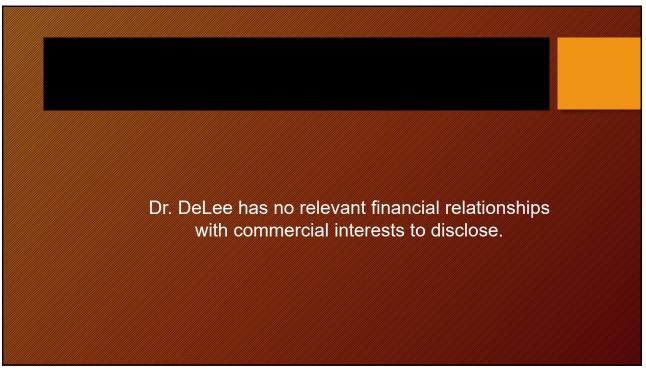
# ACL Update 2024

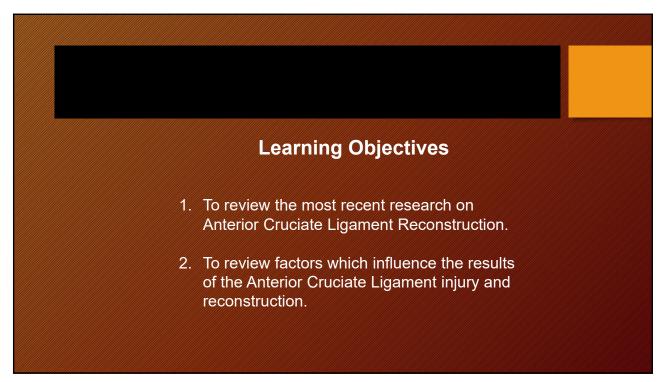
Jesse C. DeLee, MD Adjunct Professor UT Health

1

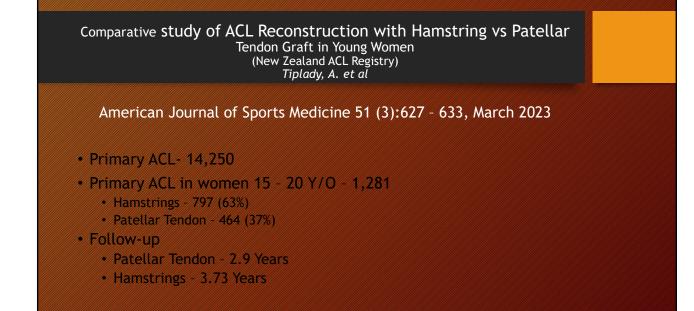


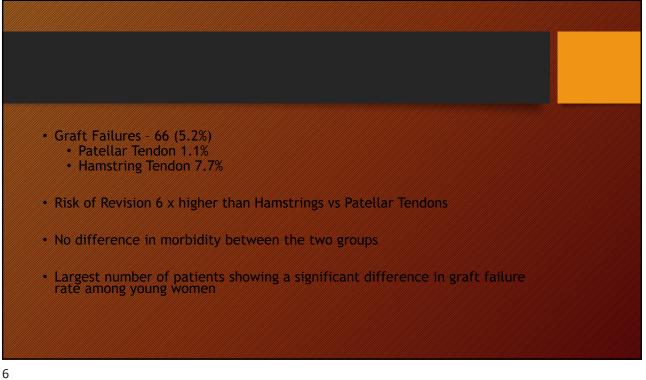
### **CME** Accreditation

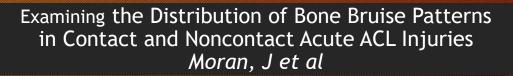
This live activity is designated for a maximum of .3 AMA PRA Category 1 Credit. Physicians should claim only credit commensurate with the extent of their participation in this activity.



4



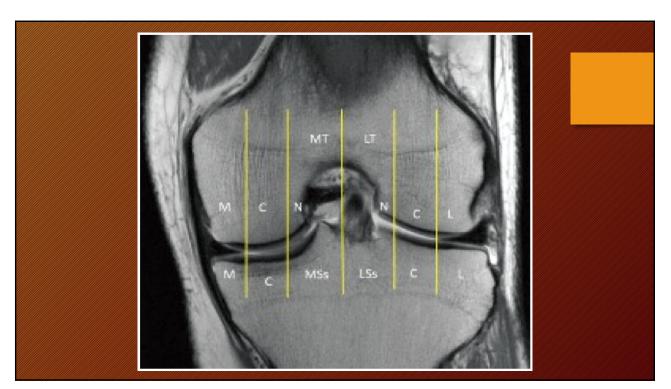


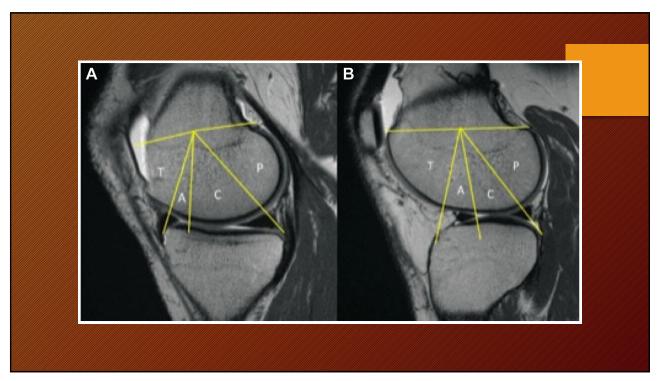


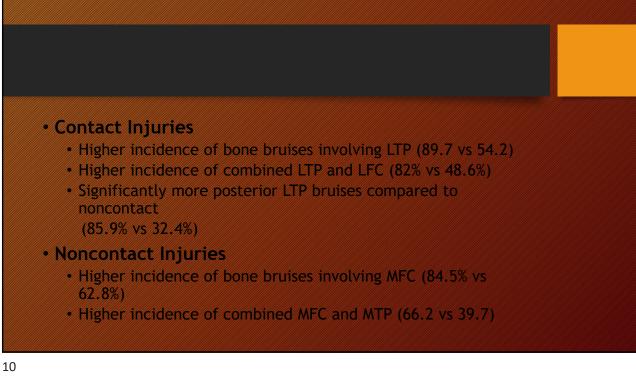
American Journal of Sports Medicine 51 (5): 1155 - 1161, April 2023

- 220 Patients underwent acute ACL Reconstruction
  - Clearly documented mechanism of injury
  - MRI within 30 days of injury
- 142 (64.5%) noncontact injury 76 (35.5%) contact injuries
  - Contact group 69.2% male
  - Noncontact group 52.4% male

7







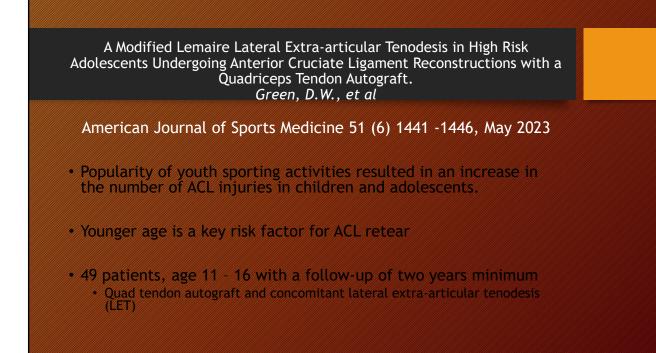


#### Association Between Graft Type and Risk of Repeat Revision Anterior Cruciate Ligament Reconstruction Heffner, M. et al

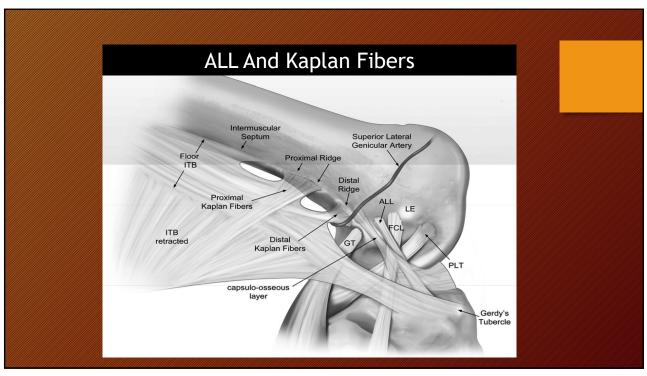
#### American Journal of Sports Medicine 51 (6) 1434 -1440, May 2023

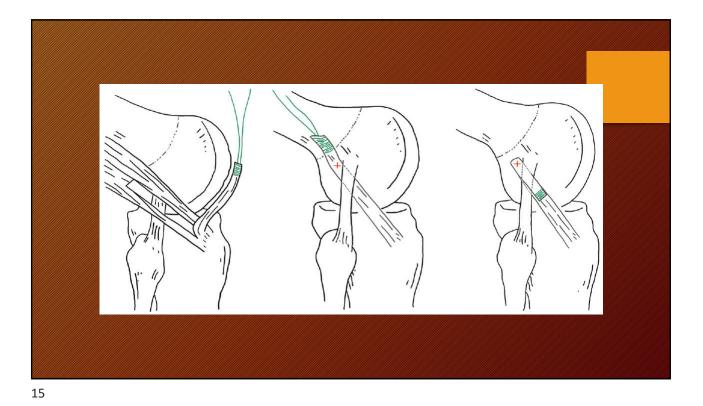
- 1,747 revision ACL reconstructions (rACLR) from 2005 2020 in Kaiser Permanente ACL Registry
- 70% lower risk for revision of a revised ACL reconstruction (rrACLR) when using an autograft (6.0%) compared to an allograft (13.9%)
- Reoperations for nonACL problems (i.e. meniscus, chondral, etc.) was equal in the autograft and allograft groups
- CONCLUSION: Use autograft tissue when possible for revision of a revised ACL (rrACLR)

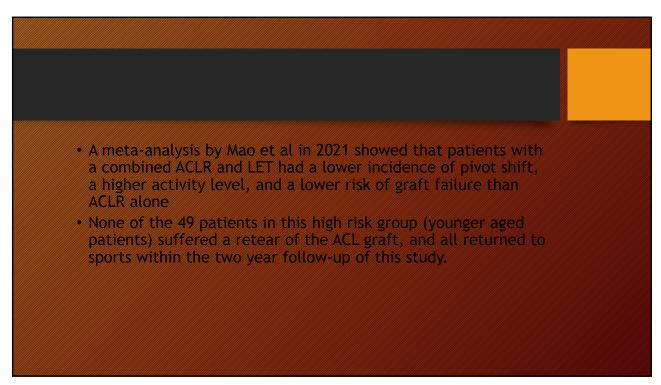
12

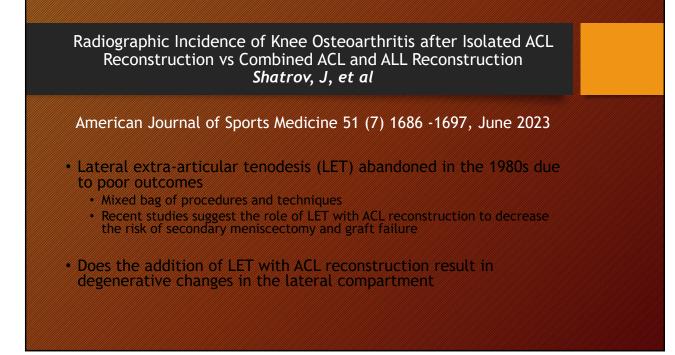




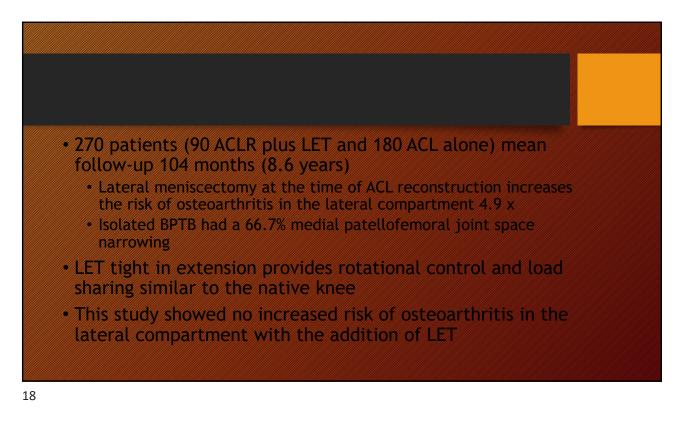












#### SPIN in the Abstracts of Meta-analyses and Systematic Reviews: Quadriceps Tendon Graft for Anterior Cruciate Ligament Reconstruction *Gulbrandsen, M.T. et al*

American Journal of Sports Medicine 51 (8) 2079 - 2084 July 2023

SPIN - Reporting bias that misrepresents research

#### Type of Spin

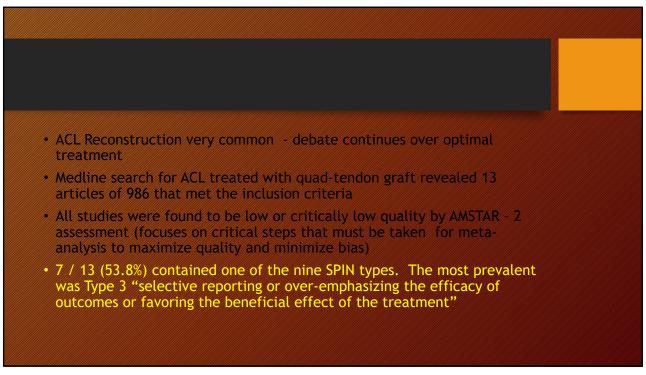
: Conclusion contains	recommendations for	clinical practice	not supported by the	findings

- 2: Title claims or suggests a beneficial effect of the experimental intervention not supported by the findings
- 3: Selective reporting of or overemphasis on efficacy outcomes or analysis favoring the beneficial effect of the experimental intervention
- 4: Conclusion claims safety based on nonstatistically significant results with a wide confidence interval
- 5: Conclusion claims the beneficial effect of the experimental treatment despite high risk of bias in the primary studies
- 6: Selective reporting of or overemphasis on harm outcomes or analysis favoring the safety of the experimental intervention
- 7: Conclusion extrapolates the review's findings to a different intervention

8: Conclusion extrapolates the review's findings from a surrogate marker or a specific outcome to the global improvement of the disease

9: Conclusion claims the beneficial effect of the experimental treatment despite reporting bias

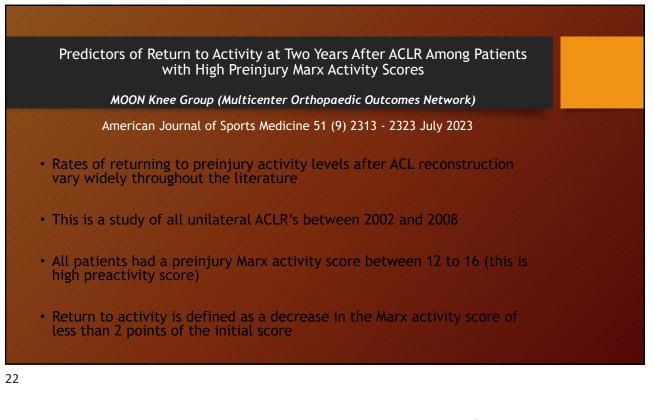




20





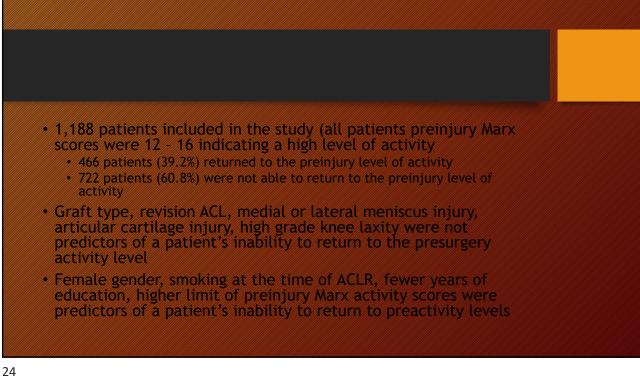


Marx Activity Scale is based on Running, Deceleration, Cutting and Pivotin	Marx Activit	v Scale is based on Running.	Deceleration,	Cutting and Pivoting
--	--------------	------------------------------	---------------	----------------------

Please indicate how often you performed each activity in your healthiest and most active state, in the past year. Kindly put a  $(\Box)$  mark on the appropriate space after each item.

	Less than one time in a month	One time in a month	One time in a week	2 or 3 times in a week	4 or more times in a week
<b>Running</b> : running while playing a sport or jogging	0	1	2	3	4
<b>Cutting</b> : changing directions while running	0	1	2	3	4
Deceleration: coming to a quick stop while running	0	1	2	3	4
Pivoting: turning your body with your foot planted while playing sport; For example: skiing, skating, kicking, throwing, hitting a ball (golf, tennis, squash), etc.	0	1	2	3	4

23



## CONCLUSION OF STUDY

• Two years after ACLR, 60% of patients with high preinjury Marx activity scores do not return to their preinjury level of activity

25

