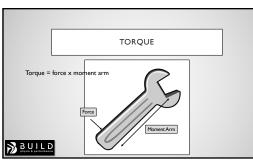


	JUMP HEIGHT IS THE "OUTPUT"
	HEIGHT IS NOT ONLY AFFECTED BY *STRENGTH*
	RATE OF TORQUE DEVELOPMENT / IMPULSE VELOCITY- often self selected
	COUNTERMOVEMENT DEPTH NEUROMUSCULAR TIMING & STRATEGY
	CUEING / EFFORT
17	

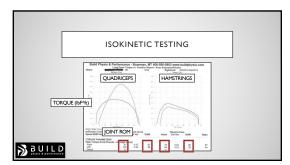
	"STRENGTH" TESTING
BUILD Byrild garling	











	TORQUE TO BODY WEIGHT	
	 Eliminates LSI which overestimates function Limited studies compare torque to body weight 3 Nm/kg (lsom @90°)- higher patient satisfaction 	
	Kuenze, 2015; Petrosimone, 2016	
23		

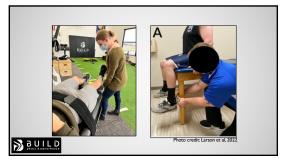
	NORMATIVE VALUES	
	 Isometric (90°) quads-100% body weight (3 Nm/kg) Isometric (90°) hamstrings- 60% body weight (1.8 Nm/kg) Isometric hip abduction- 2.5 Nm/kg Isometric hip adduction- 2.5 Nm/kg 	
	Kuenze, 2015; Pietrosimone, 2016; Roberg, 2018; Piours-Snyder, 2002; Aarguard, 1998; Thorborg, 2014	
24		



Quad Torque Testing Line of pull is perpendicular to moment arm Forque = force (N) * mo Torque to Body Weight = divide torque (Nm) by patient's weight in

METHODOLOGY
 Test set up Fixation- strap 'em down! Cueing Number or trials- taking average or best trial Testing frequency

27



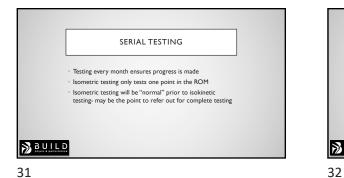


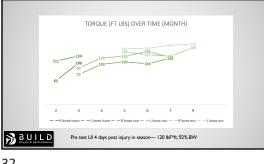


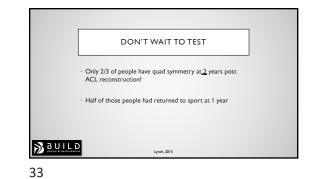
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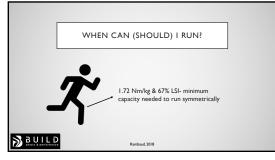
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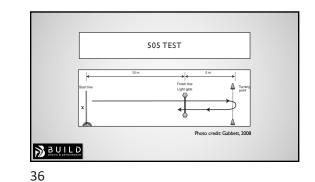






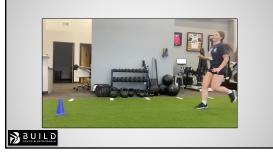


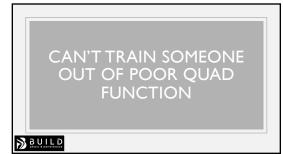












THANK YOU!	
Autor Water Martine (and and an	
	ANTERNAL ALL THE MERCER FAZZASE MERCER FASA MERCER FASA

	REFERENCES
Chaput M, P:	limenio M, Farmer B, et al. Quadriceps strength influences patient function more than single
leg forward I	op during late state ACL rehabilitation. In: J Sports Phys Ther. 2021 Feb;16(1):145-155
Graham M, R	eeves K, Johnson D, Noehren B. Relationship between quadriceps strength and knee joint
power during	jumping after ACLR. Orthop J Sports Med. 2023 Mar 31;11(3):online
Kuenze C, H	artel J. et al. Clinical thresholds for quadriceps assessment after ACLR. J Sports Rehabil. 2015
Feb;24(1):36	46
Lynch A, Log	arstedt D, Grindem H, et al. Consensus criteria for defining "successful outcome" after ACL
injury and re	construction: a Delaware-Oslo ACL cohort study. Br / Sports Med. 2015;49:335-342
Gokeler A,V	Kelling W, Zaffagnini S, Padua D. Development of a test battery to enhance safe return to
sports after A	KCLR. Knee Surg Sports Troumatol Arthrosc. 2017 [an;25(1):192-199
Kotsifaki A,V	Atteley R, et al. Single leg hop for distance symmetry masks lower limb biomechanics: time
to discuss ho	p distance as a decision chienfon for return to sport after ACL reconstruction. Br Sports
Med. 2021;0:	1.9
Kotsifaki A, e	t al. Vertical and horizontal hop performance: contributions of the hip, knee, and
ankle. Sports	Health 2021;13(2):128-136
UILD	

 DEFERENCES

 Marca Ma