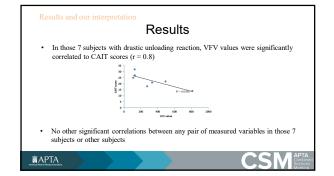
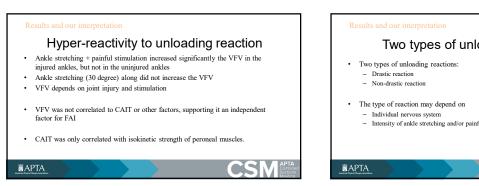
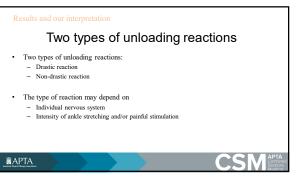


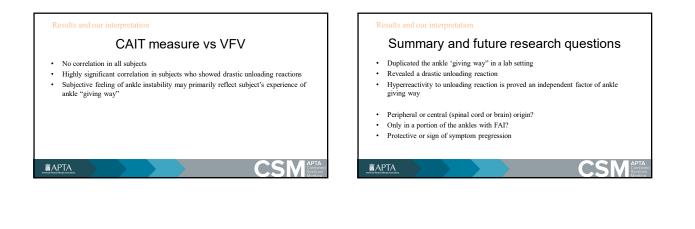


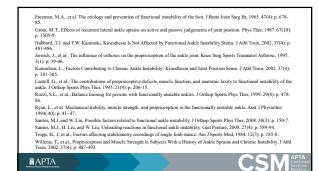
• 7 sub		Resu	tion (VFV > 100 at the inju-	ared ankle with
		Drastic reaction (n=7)	Non-drastic reaction (n=17)	
	Injured 'no stim'	111.5±67.5	33.4±20.8	
	Injured 'with stim'	325.1±255.3	36.5±23.2	
	Uninjured 'no stim'	94.6±82.3	38.0±28.5	
	Uninjured 'with stim'	117.2±105.6	39.2±29.8	
<b>ā</b> APTA			(	SM APTA Combined Sections Meeting



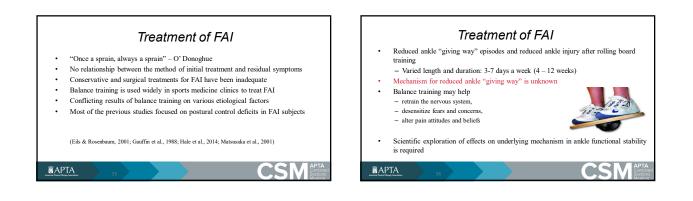


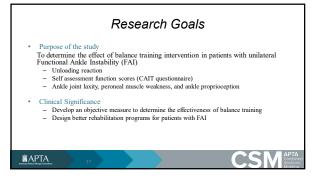




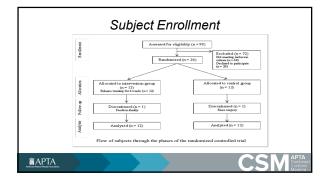




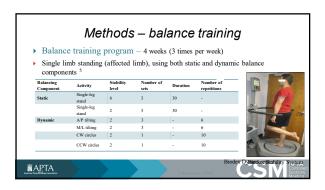


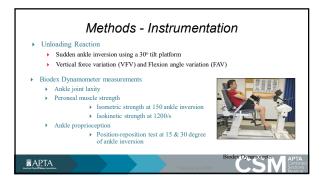


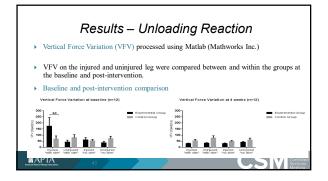


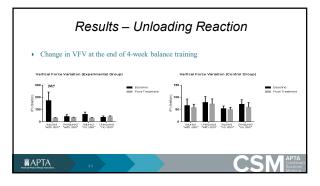


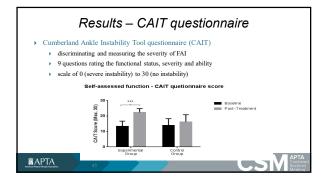
	Method	s - Subj	jects	
Primary In	clusion Criteria			
-18 to 45 yea	rs			
-unilateral fu	nctional ankle instability	(FAI) (grade	II or III)	
-ongoing syn	eks after acute lateral ar nptom of ankle "giving v t least 2 hours per week.		Height (cm.)	ies Weight (kg.)
Control group	12 subjects (3 males, 9 females)	33.8±6.4	168.4±10.7	75.48±13.8
Intervention group	12 subjects (4 males, 8 females)	34.6±9.0	172.7±6.1	75.2±14.1

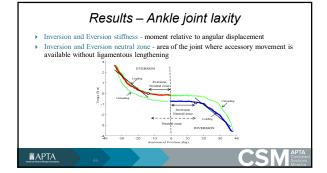


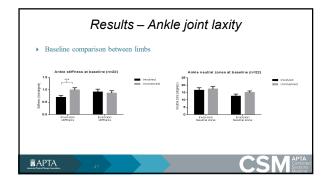


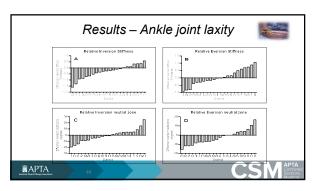


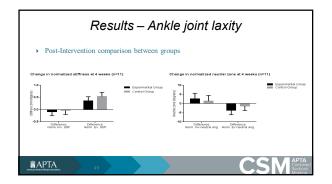


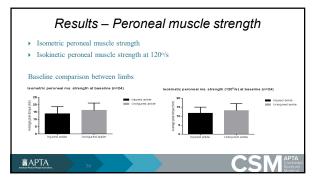


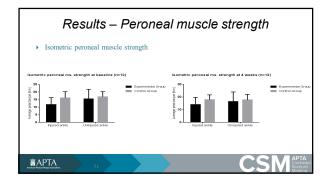


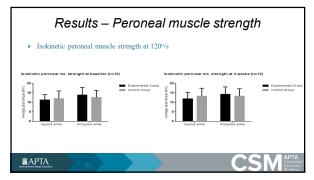


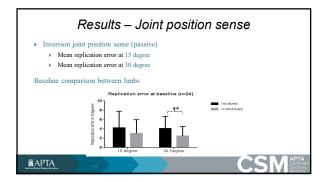


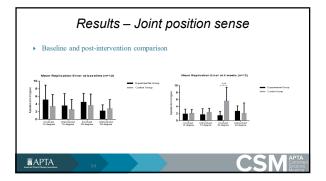


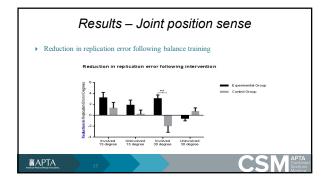


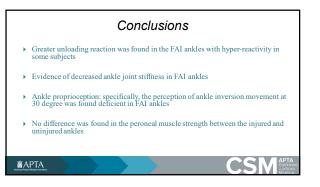


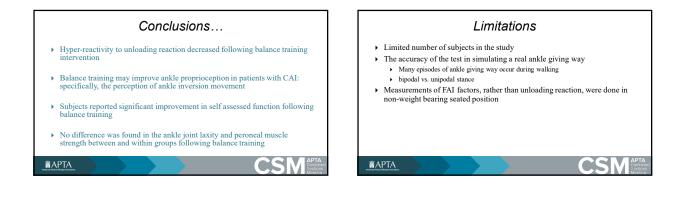


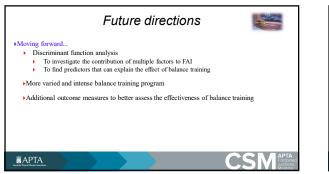


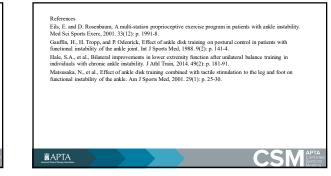




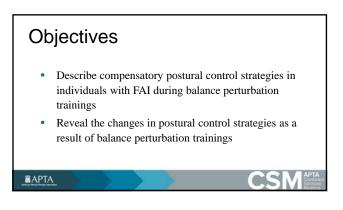


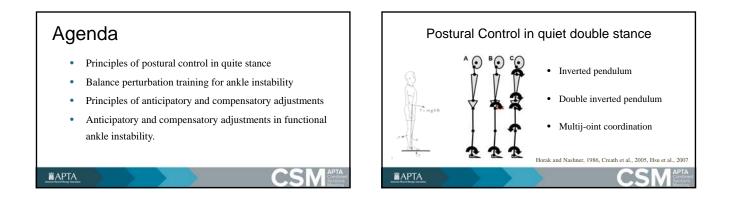


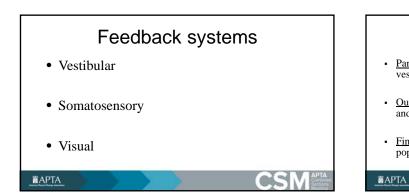


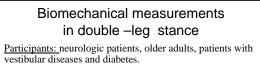




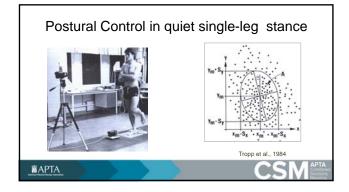


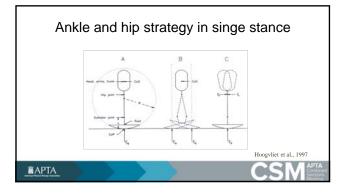


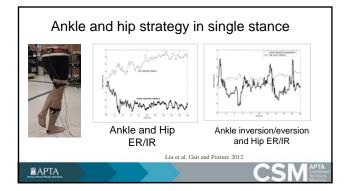


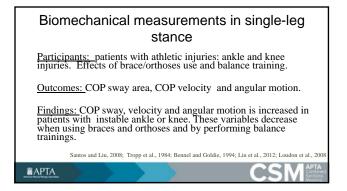


- <u>Outcomes: center of pressure(</u>COP) sway area, COP velocity and angular motion.
- <u>Findings:</u> COP sway and velocity is increased in these special populations and in older adults Horak et al., 2002 and 2002; Geurts et al. 2005; Prieto, 1996

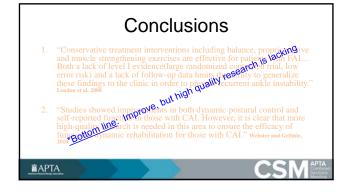








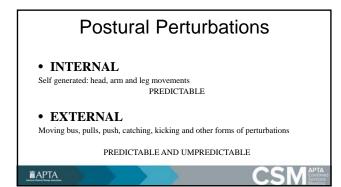


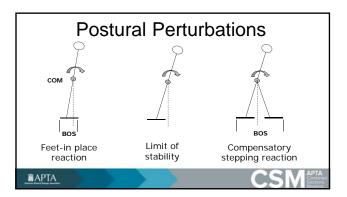


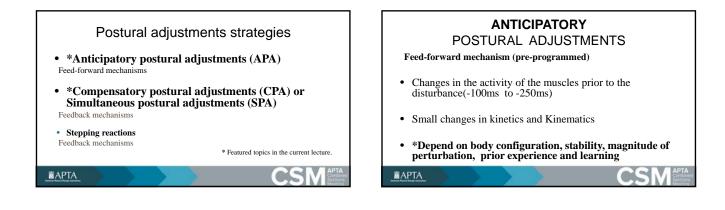


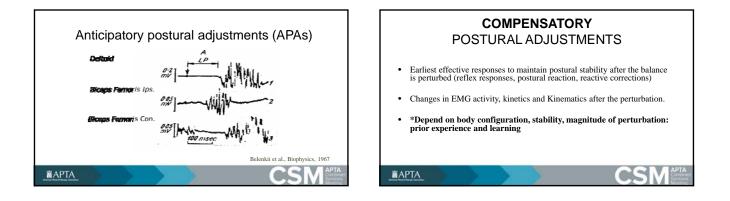


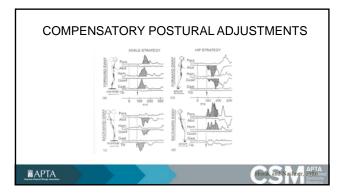


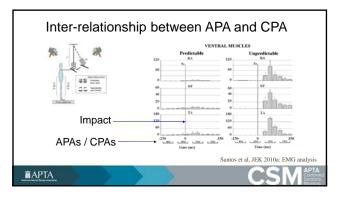




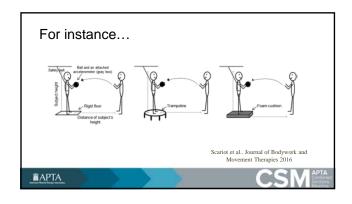


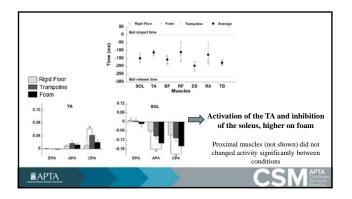


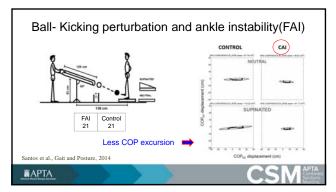


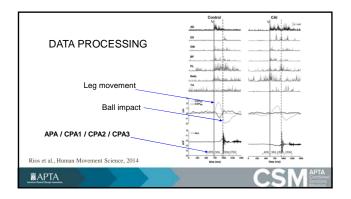


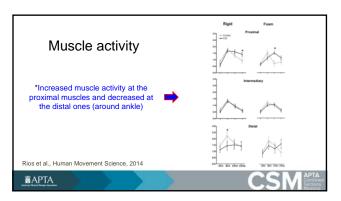


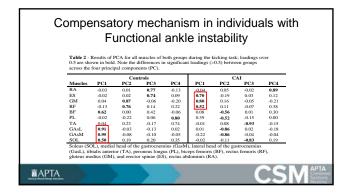


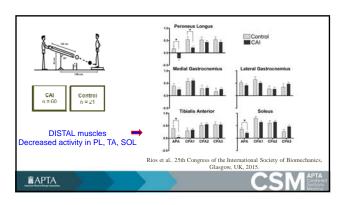




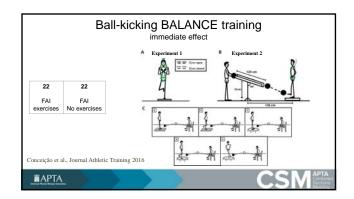


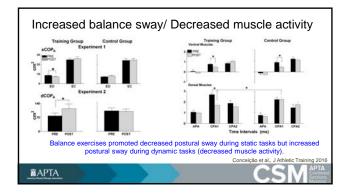






Principal component analysis								
		CAI		Control				
	Muscles SOL FA GasL GasM PL	PC1 .076 .836 .141 117 .827	PC2 041 .119 <b>881</b> <b>850</b> 147	PC3 .953 .116 136 .199 050	PC1 .421 117 .910 .986 .354	PC2 .322 <b>.977</b> .059 163 .286	PC3 .637 024 047 .000 <b>710</b>	
RAPTA CSM								







APTA

- People with FAI/CAI reduced postural sway dynamic tasks and increased postural sway during static tasks Increased anxiety levels, <u>avoiding</u> "giving way" or hyper-responses.
- Individuals with FAI/CAI increase the proximal muscular activity (hip and spine) to compensate for their ankle deficits and maintain reduced balance sway during the task performance (icking a ball). The results of our PCA analysis show that individuals with FAI/CAI also alter the way they combine and coordinate their muscular activation patterns to control balance sway during postural disturbances.
- balance perturbations exercises using kicking a ball tasks may effectively target the proximal instead of the distal (ankle) muscles in individuals with CAI. Thus, associating balance control/sway improvements with ankle neuromuscular enhancement after these specific trainings might be taken with caution. 015



