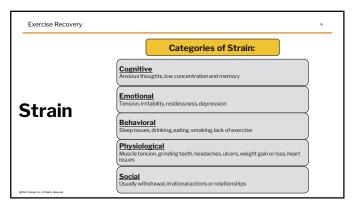


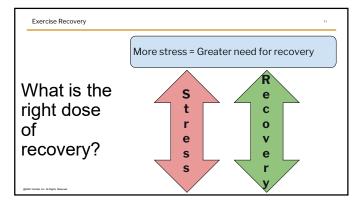




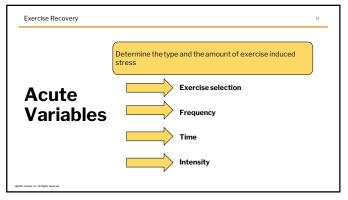
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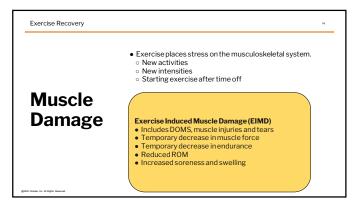
Exercise Recovery Short term effects: Long term effects: • Heart rate and respiration Anxiety increase Fatigue Acetylcholine prepares body Irritability **Stress** for action Blood is driven to periphery Decreased CO2 levels (more • Sleep disorder • Non-working muscular cont. tension Adaptation failure anaerobic) Dilated pupils, narrowing of focus, decrease in peripheral Cognitive dysfunction vision

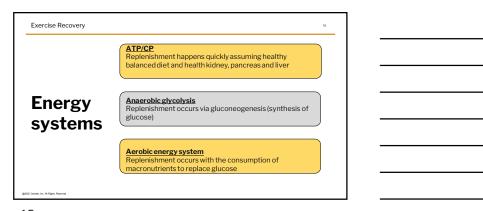


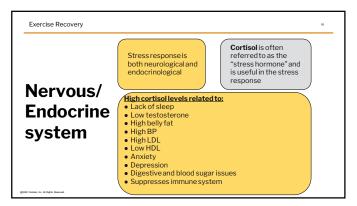


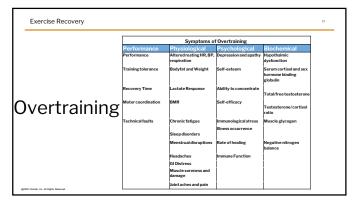


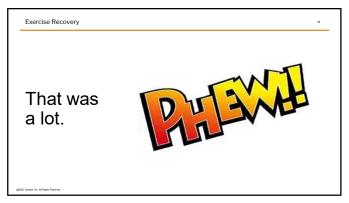


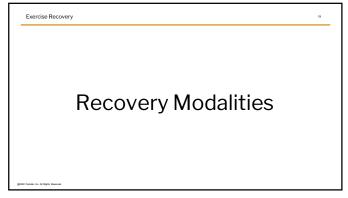


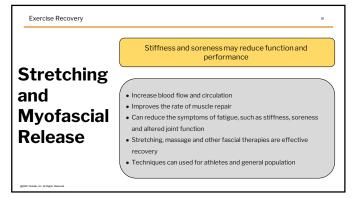






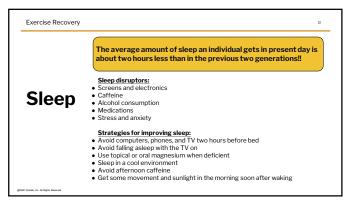


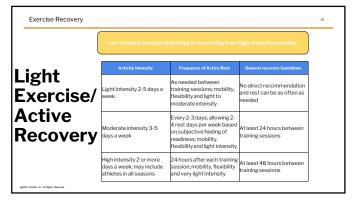




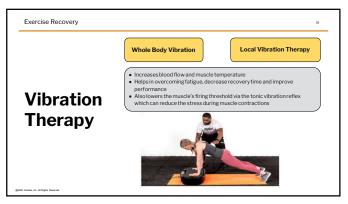
Fascial
Therapy
and
Stretching

A study found that when applied for up to 10 minutes, joint range of motion was improved by 6.2 percent with static stretching, with a minimal effect foam rolling alone, but by 9. percent when foam rolling, and stretching were done together.



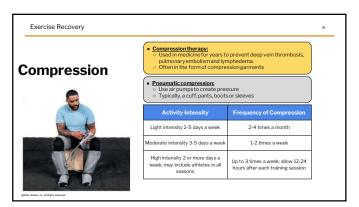


Exercise Recovery	к
Nutrition	Post exercise nutrition replaces glycogen and amino acids Gut health promotes absorption of nutrients
and Hydration	Brain is 93% water and Muscle is 73% water Dehydration means decreased blood volume This means less delivery of nutrients and oxygen to muscles
GRISS Canada, Inc. All Riges Reservad.	



Activity Intensity	Frequency of WBV Therapy	Recovery Goal	Frequency of Local Vibration
Light intensity 2-5 days a	Up to 3 times a week: 15 min	Movement prep	1-3 min per muscle group
week	maximum per session	Reduce acute pain and inflammation	1-3 times a week on affected body regions: up to 15 min
Moderate Intensity 3-5 days a week	2-4 times per week: 10-15 min maximum per session	Reduce chronic pain and	
High intensity 2 or more	Un to 2.2 times deily as	inflammation	total
days a week. May include athletes in all seasons	eek. May include needed: 10-15 min maximum	Sports muscle recovery	Daily: 1-5 min per muscle group never more than 20 min at a time





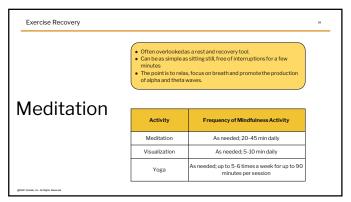


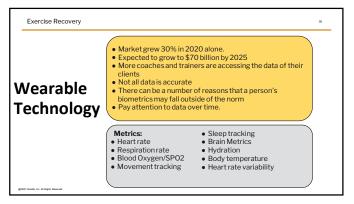


Recovery Goal	Frequency of Cryotherapy for Recovery	Activity Intensity	Frequency of Contrast Water Therapy for Recovery	General Guidelines	
Reduce acute pain and inflammation	2-4 times per week	Light intensity 2-5 days a week	As needed between training sessions	Ensure water temperatures remain between 50- 59 degrees in the cold tub and 95-113	
Reduce chronic pain and	2-4 times per week		Moderate intensity 3-5 days a week High intensity 2 or more days a week; Can be done daily more days a week; for up to 10	degrees in the warm tub	
inflammation				tub 1-3 min warm, 1 min	
Sports muscle recovery	Up to twice daily			cold; alternate for up to 20 min and always end up in the	
Improve sleep	2-3 times a week	in all seasons	consecutive days	cold	

Exercise Recovery		33
	Nutritional	Joint Supplements
Supplements	Omega-3sProbioticsProtein	GlucosamineChondroitin
	<u>Performance</u>	<u>Sleep</u>
	CreatineCaffeine	MelatoninMagnesium
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Exercise Recovery	33	-	
Massage	Localized or injury specific: Often combined with PT and corrective exercise for healing and recuperation Event specific (pre, intra, or post-event): For maximizing performance in competition Training and maintenance: May enhance both performance and recovery Address muscle imbalances and limited ROM Can reduce injury risk from overuse		
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Exercise Recovery		36
Now What?	 In what ways can you implement any of this information Which new tools or modalities are you willing to try? Which new tools or modalities are you thinking about adding to your services? 	17
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