

Come Back Stronger Webinar Series

September 1, 2020





American Dairy Association North East



Sports Nutrition Experts

2020 **Sports Nutrition Advisory Panel**















ADANE Free Resources

Packing a Winning Lunch for Student Athletes

By: Heather Mangieri, RDN, CSSD

HAVE THE RIGHT FOLIPMENT experiment for their spect, that failing for their spectrospectrum for to entertion. To pack a servicing lanck, you'll need some requirement to same it from until it's time to aut, A main lanch but nooler is a prostart, but other equipment is secrement to maintain hooks at a suf-temperature and assuminge variety. Rang a sprinty of containers on hand to pack your foods, as well a few too packs to beep hands calif. If you profer fast manife, be more to have a high-soulity some theorem or fixed par their langue books her until It's time to out. You can also have famou containers design specifically to hold saludy, solud diversing, and to imag family separate until multy to essentials

KEEP HEALTHY FOODS ON HAND

sping and preparing funds in advana proof, and their store year with granter and periods without a start for bands, to pay work is advance, bits cleaning and sorting respective in stocked with these bands to pay work is advance, bits or an analysis, if periods are public to a point of bang, or shong they pay any periods. It has a non-analysis, if periods are public to pay and store, or they pay are periods as a store bandwick.



Performance Fuel for Your **Dorm Room**

By: Allison Kreimeier, MS, RD, CSSD



Portable & Non-Perishable Foods



 Whole Grain Crackers . Mute/Nut Butters Fresh Fruit/Canned Fruit/

Chicken/Salmon

Bagels/Tortillas

Granola/Granola Bars

Energy and/or protein bars

Whole Grain Bread/

Dried Fruit Canned or Pouched Tuna/

with made with dried fruits, nuts and seeds) Popcom Pretzels





School is back in sension? While many parents withome the attactory

if also comes with some new stressory - planning and preparing

the ketch box. Knowing what foods to pack, and how much, can be tologing for parents and athletes alone. Especially if you have

a picky eater. Here are 3 unpole tips along with some eval about to

make packing and eating a winning kench ranam

PACK WINNING COMBINATIONS There is no such thing as the perfect load or need - eludent altima and a variety of extracts, from a variety of fixeds, for proper great rises, and to perform well at their sport. When parking ething from each of the field groups. Thesi sy is sense you an parking prices a to

A collana student's lifestule is artramely husy. And when wwire a studen

can go from classes, tutoring, and homework to training, recovery, and

athlete things can get overwhelming fast. In just one day, a student-athlete

63364

Foods for your Fridge:

Uncured Deli Meat

Greek Yogurt Cups

Yogurt-based drinks

Hard Cheeses

Cottage Cheese

· Hummu

COMPONENTS OF A KETO DIET

The goal of the ketogenic diet is to put your body into a state of ketosis where the muscle can use fat as the primary fuel source for exercise. To do this, the fat content of the diet is high, protein content is moderate (0.5-0.9 grams of protein per pound body weight per day) and carb intake is low, around 50 grams a day.

PHYSIOLOGY

Can the **KETO DIET**

Positively Impact

Your Physique, Physiology

and Performance?

By: Leslie Bonci, MPH, RD, CSSD, LDN

EQUIPMENT

Just as you have equipment for your sport, you need to be equipped to properly follow a keto diet. To make sure you are following the ketogenic diet correctly, you'll need to monitor your ketone levels. A finger prick that measures the ketones in your blood is much more accurate than testing your urine, but it can be costly. You need a blood ketone meter that will show you whether or not you are in ketosis.

WHAT YOU MAY NOTICE

Adapting to the diet can take some time. It typically takes a week to adjust. You may feel fatigued, or even "fluish" early on. This is due to the rapid excretion of sodium and fluids, from the body as you minimize carbohydrate intake. If you are a heavy or salty sweater, you'll need to make sure that you drink enough fluids and consume enough sodium. Keto-friendly options include salting foods, broth, or adding soy sauce. You may have to ingest 3000-5000 milligrams of sodium per day, as well as additional potassium. Since potassium is found primarily in fruits and vegetables that are restricted on the keto diet, getting enough can be challenging. Magnesium and zinc needs are also higher



As a sports dietitian, I work daily with pro individuals looking for fueling strategies to improve performance, body composition, and health. One popular and enticing eating plan is the ketogenic diet. The keto diet has taken the internet by storm with highly tial followers. Some athletes report that following a keto diet has dramatically improved their performance. If keto is something you're considering, make sure it is a good fit before making your decision.

When considering if it is right for you, I'm talking about more than just the foods you have to eat or not eat. It is important to consider how it could impact your body physiology, your physique, and your sports performance. Here we will focus on how the keto diet may help, or hurt, people who are active and exercise regularly.

IMPACT ON APPETITE

After the period of adaptation, you may feel less hungry throughout the day. For someone who is sedentary that may be fine, but a reduction in appetite may not be a good thing. If you train many hours a day and don't eat enough, you could end up in energy deficit, and that can negatively impact health and athletic performance.

IMPACT ON GUT HEALTH

Some keto-advocates note that their digestive symptoms improve on a keto diet. While this may be reported, there is concern that inadequate intake of carbohydrates and fiber could be more harmful than helpful to the gut.

IMPACT ON BONE HEALTH

Active individuals need to provide their supporting structure the nutrients it needs to stay strong. That means getting enough calcium and vitamin D daily. Full fat dairy fits into a keto plan and provides the calcium that is necessary to support bone health. Cheese and Greek yogurt are also low in carbs, making them good options to get bone-supporting nutrients each day when following a keto diet

IMPACT ON INFLAMMATION

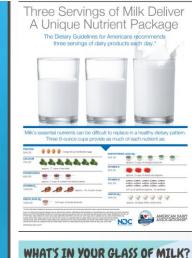
Some studies have shown decreased markers on inflammation when following

AL

Milk's nine essential nutrients can help kids and teens grow healthy and strong.









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Safe Return to Training & Sports in High School Athletes

Matthew Darnell, PhD, RD, CSSD, SCCC





By the end of the session, participants will be able to:

- Understand risks of training following periods of inactivity.
- Implement scaled and periodized training approaches following periods of inactivity.
- Incorporate preventative training exercises into practices or warm-ups.





How long does it take to lose fitness?

- Cardiovascular fitness: 7-14 days
 - ↓ blood and plasma volume
 - Blood enzymes
 - 个 Resting heart rate
- Strength: 2-3 weeks
 - Understand
 Understand
- Structural Strength: 2-8 weeks
 - Bone
 - Tendons/ligaments

Depends on training history and fitness levels





Fitness comes back quickly

VS

Average Re-instatement time

2-4

weeks

Average Return time Post Injury

6-8

weeks

- Fitness levels restore quickly in trained athletes
- Gradual re-instatement of activity is key

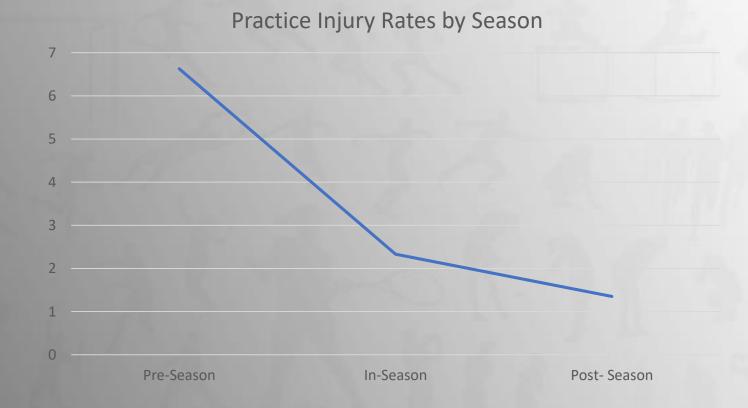




Training following inactivity

Risks:

- Exertional heat stress
- Sudden cardiac death
- Exertional Rhabdomyolysis
- Musculoskeletal Injuries
- Overuse injuries







Inactivity and Transition Periods

- Inactivity \geq 2 weeks
- Transition Periods:
 - Student athletes beginning under a new head sport coach
 - Transfer or freshman athletes or athletes starting with a new strength coach
 - Students returning from injury/rehabilitation program





"Slow is smooth, smooth is fast"

Most injuries occur because coaches do: too much too fast too soon





To ensure training is developmentally appropriate and not excessive coordinate and communicate between:

- Sports Coach
- Athletic Trainer
- Strength Coach





Follow the 50/30/20/10 Rule

Week	Reduction of normal exercise load/plan	Work to Rest Ratio
1	50%	1:4 or >
2	30%	1:3 or >
3	20%	
4	10%	





Follow the 50/30/20/10 Rule

Multi-sport athletes:

• Consider participating in only one sport practice or conditioning session

OR

• At least 50% reduction of workload in each of the sport practices or conditioning sessions





Weight Training Follow the F.I.T Rule

<u>Frequency</u> = sessions/muscle group/week <u>Intensity relative volume</u> (IRV) = Sets x Reps x %1RM (decimal) <u>Time</u> = Rest interval





Weight Training Follow the F.I.T Rule

F.I.T	Week 1	Week 2
Frequency (sessions/week)	3	4
Intensity (IVR)	11-30	11-30
Time (W:R)	1:4	1:3





NSCA's Checklist



TRAINING SAFETY: RISK FACTORS FOLLOWING PERIODS OF INACTIVITY

- In the first 2 4 weeks of training, apply CSCCa-NSCA Joint Consensus, and NCAA Sport Science Institute Guidelines on training volumes, intensity, and work-to-rest ratios as upper limits to protect against catastrophic injury
- Avoid high volume submaximal exercises to fatigue, or performed within in a limited time frame
- Emphasize a 10 20 minute daily dynamic warm-up for reestablishing sport-related movement patterns
- Consider that prolonged inactivity increases the likelihood of delayed onset muscle soreness (DOMS)
- Communicate regularly with the medical and coaching staffs about at-risk athletes, including those with cardiac abnormalities, sickle cell trait, history of exertional or nonexertional collapse, asthma, and diabetes
- Consider the use of pre-screening, readiness surveys and/ or workload monitoring for tracking athlete status
- Plan and adjust workouts to match environmental factors, especially in cases of high heat and humidity
- Do not perform physically exhausting drills for the purpose of developing "mental toughness"



Multi-component (min of 3):

- Strength, balance, agility, flexibility, plyometrics Frequency
- 2-3 times/week (pre and in-season)
 Duration
- 10-20 mins





Prevent injury and Enhance Performance Program (PEP)

- Improve strength and balance
- Reduce incidence of knee injuries





Warm-up (50 meters each)

- Jog sideline to sideline
- Shuttle run (side to side)
- Backward running





Warm-up (50 yards each):

- Jog (sideline to sideline)
- Shuttle run (side to side)
- Backward running







Stretching (30 sec x 2 reps each):

- Calf stretch
- Quadricep stretch
- Figure 4 hamstring stretch
- Inner thigh stretch
- Hip flexor stretch







Strengthening:

- Walking lunges (20 yards x 2 sets)
- Nordic Hamstring (3 sets x 10 reps)
- Single leg toe-raises (30 reps/side)







Plyometrics (20 reps each):

- Lateral hops over 2-6 in. cone
- Forward/Backward hops over 2-6 in. cone
- Single leg hops over 2-6 in. cone
- Vertical jumps
- Scissor jumps









Agility:

- Shuttle run with forward/backward running (40 yards)
- Diagonal runs (40 yards)
- Bounding runs (45-50 yards)







- Pre-season and inactivity/detraining 个 injury risk
- Start slow and build
 - 50/30/20/10 and F.I.T rule
- Injury prevention training includes strength,
 balance, plyometrics, agility, and flexibility and can
 be implemented in warm-ups/practices.





Resources/References

- NSCA COVID-19 Return to Training
- CSCCA and NSCA Joint Consensus Guidelines for Transition Periods: Safe Return to Training following Inactivity
- ACSM Return to Sports and Exercise during the COVID-19 Pandemic: Guidance for High School and Collegiate Athletic Programs



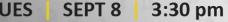
Questions



Upcoming Webinars



Registration information will be shared again in the post-webinar eblast





MOLLY MORGAN, RD, CDN, CSSD **Owner, Creative Nutrition Solutions;**

Binghamton University Men's Basketball Sports Dietitian

Hydration Tactics to Fuel High School Athletes

TUES **SEPT 15** 3:30 pm

Reminders

Post-webinar polling questionsRaffle Prize Winners

- •Post Webinar E-Blast Coming Soon! Includes:
- ✓Presentation Slides
- ✓On-Demand Webinar Link
- ✓ Resources
- ✓ Registration info for upcoming webinars



