

NUTRIZINE

Sport Ireland Institute's Performance Nutrition Newsletter



Welcome Note

Performance Nutrition Team

Welcome to our latest Nutrizine edition - it seems like ages since our last edition. It was only in August, but it has been a very busy few months.

HPX Nutrition made the move from a live conference to on online webinar series. Hopefully some of you have tuned in over the past two weeks and have found the content to be of interest. As nutrition 'coaches' it is imperative that rather than just educating our athletes, we focus on how to change behaviours. Looking at capability, opportunity and motivation, is one such approach which Dr Dan Martin has had success with when working with professional jockeys and this is something we may return to in future editions of our ezine.

Economic and environmental issues are also major influences on our behaviours, so we are delighted to include some of Dr Kirstie McAdoo's top tips on how to eat more sustainably in this month's edition.

As always, we hope you enjoy this edition, and if you do have any suggestions for content for future editions, or would like to feature in our 'A Day in the Life' section, please do let us know.

IN THIS ISSUE:

SUSTAINABLE DIET TOP TIPS

A SELECTION OF RECIPES TO KEEP US GOING DURING THE COLDER WINTER MONTHS

NEW SPORT IRELAND INSTITUTE RED-S INFOGRAPHICS

'A DAY IN THE LIFE -JUDO ATHLETE MEGAN FLETCHER

HOW TO PERIODISE YOUR DIET



What's in Season?

Following on from Dr Kirstie McAdoo's talk on how to shop more sustainably during our HPX Nutrition webinar series we thought the following resources might come in handy. They include the Airfield Estate's monthly 'in-season' list and weekly menu plan and can be downloaded here:

https://www.airfield.ie/stories_news/seasonal-meal-planner/

You can also watch the Nutrition webinar series in your own time via the videos which are up on the Nutrition section of the Sport Ireland Institute page:

https://www.sportireland.ie/institute/performance-service/nutrition/hpx-nutrition

WHAT'S IN SEASON IN OCTOBER? FRUIT SALADS VEGETABLES HERBS Basil Aubergines Shallots **Apples** Autumn Raspberries Courgettes Chives Pak Choi Annual Spinach Chillis Blackberries Cucumber Corriander Beetroot Fennel root Parsnip Lettuce (Iceberg, Dill Broccoli Kale **Potatoes** Pears Lollo Rosse, Red Fennel Brussel Sprouts Khol-Rabi Radish Oakleaf, Round) Mint Brassica salads Leeks Rhubarb Peppers Parsley Spinach Cabbage Mushrooms Scallions Sage Onions Squash/ Carrots Tomatoes Thyme Cauliflower Garlic **Pumpkins** Celeriac

WEEKLY MENU PLAN			DATE					
	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	
BREAKFAST								
LUNCH								
DINNER								
SNACKS								
Each week review your plan Will you cook the meal again? or								
SHOPPING LIST								
					_			



New RED-s Education Campaign

- If you are following the Sport Ireland Institute
 believeperformachieve instagram
 account you may have noticed the
 recent focus on RED-s which is
 based on the release of new
 infographics from the Sport
 Ireland Institute team.
- Leading this multi-disciplinary project was physio Julianne Ryan and she hopes that the resources create an increased awareness, help athletes make any necessary changes required and signpost people on for further help where needed.
- Keep an eye out for upcoming video Q+A sessions with members of the Institute team who answered a variety of questions posed by athletes via our Instagram page.



Relative Energy Deficiency in Sport (RED-S)

at Sport Ireland Institute

Can you relate to any of the following?

Recurrent injuries/niggles that you "can't get on top of"



Low/poor appetite

Low libido/drop in sexual function

Stress fractures/ low bone density

Low mood or feeling irritable



Frequent illnesses: common cold and flu, always "breaking down"

Difficulty recovering after training: stiff and sore, taking longer to recover from training

Decrease in performance: not hitting times etc.





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Disrupted sleep/ lethargic



"I didn't really sleep... I was very anxious, moody, very, very regimented, and anti-social."

British male cyclist

Low energy availability can contribute to the above signs and symptoms

Ask yourself...

- Is there an imbalance between your training nutrition and recovery?
- Are you getting your fuel in at the right time?
- ? Are you eating within 30-60 mins after training?



"My training sessions, race performances and general energy levels began to plummet. The motivation to become a competitive athlete was not as strong

British distance runne

- Plan across a training week with fuelling/re-fuelling blocks
- Adjust your fuelling/nutrition around training schedule and intensity

"I began to feel antisocial, low in energy and failing in other aspects of my life outside running."

New Zealand steeplechase runner



New RED-s Education Campaign

• There are 5 infographics in the series and we are featuring 3 of them in this months ezine.





Balancing Training, Nutrition and Recovery!

Do you prioritise your nutrition on rest/recovery days?

3 hour hike, is this wise on your recovery day?

				THURSDAY	FRIDAY	SATURDAY	SUNDAY
	MONDAY	TUESDAY	WEDNESDAY		Easy Run		
BAM	Easy Run	Easy Run		Easy Run 30 mins	20 mins		
ЗАМ	20 mins	25 mins		Core & Flexibility		Mobility	L/
9AM		Core & Flexibility	College		College	Pun: Intervals	3 hour hike
10AM				Psychology		50min Hard	
11AM							
12PM	College		Meeting friend for lunch				
121 14		College			Gym 60 min	Yoga	
1PM			Run; 25mins Recovery light	College	Gyw 60 w		
2PM	- (A wine	_		÷ \			
3РМ	Gyw 60 mins				Performance Review	!	
4PM	1		Gym 60 min	.s	Run;		
ED\4	1		Physio		45 mins tem	po	
5PM	Mobility						
6PM	Run; 60 min Moderate	us Mobility				Movie Nigh	t
7PM		Run; Interva 50 mins Har	ls d				
8PM						Bed	Ве
9PM			Bed	Bed	Bed	Bea	
10PI	M Bed	Bed	Dea				

Smaller recovery window means nutrition and rest should be of high importance Make sure to refuel and stay off your feet as much as possible when out with friends to support recovery



Recovery Nutrition Checklist



Adequate protein at each meal (20-30g)







Proceed with caution when you see words like "heal, detox, cleanse" on food items or supplements that "promises quick results".

Seek advice from your sports medicine team!

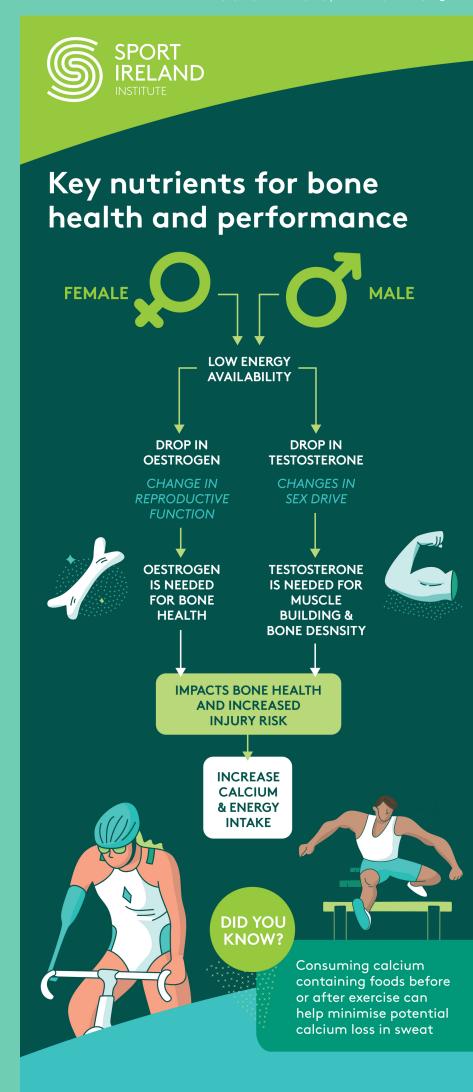
"My improvements are down to the new training programme and eating more food. Eat more and you'll have more energy to train"

Irish World Champion rower and multiple Olympian



New RED-s Education Campaign

• If you feel that you may be at risk of RED-S, or some of the signs and symptoms sound familiar to you, then please reach out to your coach, or any member of your support team that you regularly work with. They will be able to assist you in linking up with supports to create an individualised balance for your training and nutrition plan.







LEVEL OF DIFFICULITY



Simple

PREP TIME



15-20 mins

IDEAL FOR



Making and keeping in flask, perfect for getting the heat into you after training.



INGREDIENTS

Here's a list of ingredients that you'll need to get in and prep before getting started!

3 tablespoon of DON CARLOS OLIVE OIL

2 PARSNIPS, cut into cubes

4 CARROTS, cut in cubes

1/2 BUTTERNUT SQUASH (about 200g), cut into cubes

1 ONION chopped finely

1 CELERY sticks chopped finely

2 GARLIC (with skin on)

2 VEGETABLE STOCK CUBES

20g MCDONNELLS ORIGINAL CURRY SAUCE powder

1 tsp chopped FRESH THYME

150ml MILK or CREAM (optional)

Season with SALT and freshly ground BLACK PEPPER

Nutritional Profile (per portion - serves 4)					
Calories	246kcal				
Carbohydrate	27g				
Protein	5g				
Fats	10a				



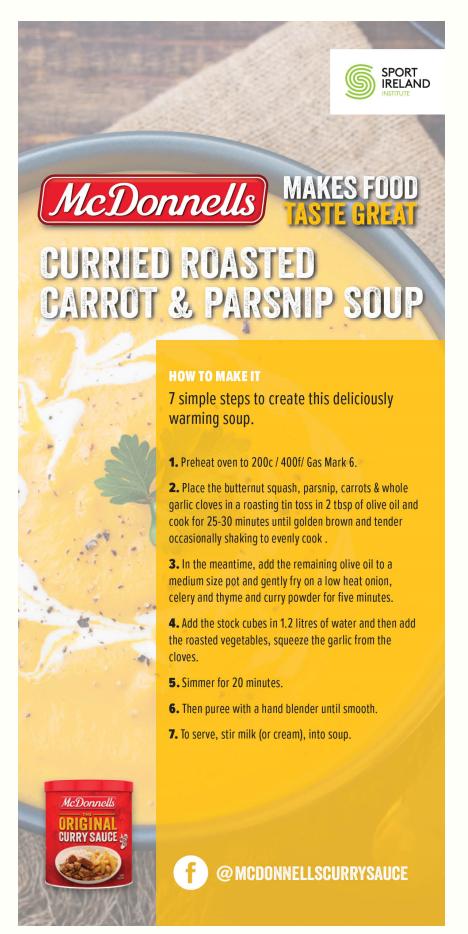
In the final of our current recipe card series we bring you a lovely curried soup recipe as part of our partnership with Boyne Valley.

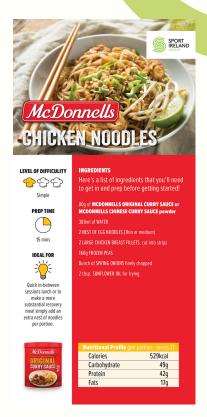
You may remember the other two recipe cards in this series which were our Chicken Noodles and Fake -Away Spice Bag - hopefully you have managed to try at least 1 of these recipes, remember if you do try any of them please do share your pictures via our Instagram account @BelievePerformAchieve or using the hashtag #fuellingirishsport















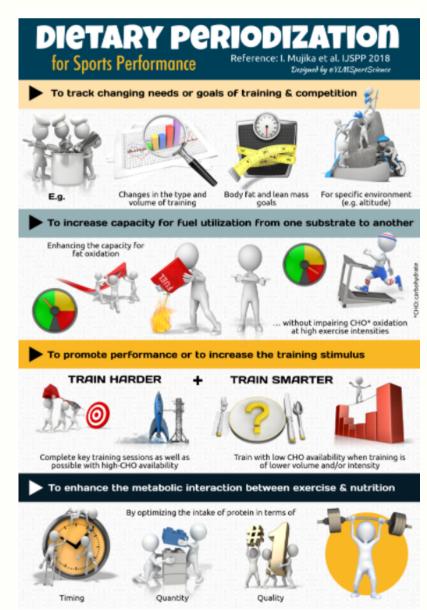
Nutrition Periodisation

By Sharon Madigan

So does your food intake change depending on your training or it changes because you don't have enough time or haven't thought about what you are going to eat or drink? You have considered how you need to change up your training but have you considered how you need to match the nutrition requirements to these different phases.

It is amazing that athletes are all aware that protein requirements are increased during a hypertrophy phase in the gym and increase it accordingly. The same needs to be done with carbohydrates and energy (calories) when the aerobic load and training load increases.

Nutrition periodization is the term that describes matching your nutrition intake to your training sessions. Your goal is to fuel each training session sufficiently to perform to your full potential and to recover quickly enough to be ready for your next training session, whether that's later the same day or the following day. This means planning when and what you will eat both before and after training sessions. But it isn't just about consuming as much starchy and sugary carbohydrate as possible to fuel your glycogen stores. Making sure you sufficient protein and healthy fat is also important, particularly to keep your muscles, bones and joints healthy and your immune system in good working order.



Infographic from YLMSportScience.com

And don't forget to add several servings of vegetables and fruit to ensure you have sufficient vitamins to support your various metabolic processes, such as energy creation.

Eating a diet full of nutrient rich foods is part of supporting your training with effective nutrition. Eating at the right times to support workouts and recovery is another. The third concerns the amount



Nutrition Periodisation

that you eat, and this needs to change throughout the season in line with your training volume. During your base training period, with low intensity workouts, you won't require as much carbohydrate as in your subsequent 'build' period when you increase intensity. This is largely because most of your workouts will take place in the aerobic training zone where you can call on your fat stores for additional fuel. Whereas high intensity work uses the anaerobic energy system more frequently and calls upon your muscle glycogen stores for quickly available carbohydrate.

Nor will you need as many calories as later in the season, as you are burning fewer calories while training at lower intensities. So eating less starchy and sugary carbohydrate at this time is the way to go, while keeping your intake of protein, healthy fats and nutrient-rich vegetables and fruit at a similar level year round.

Tips for consuming fewer carbs at this time include:

- Having smaller portions of potatoes, rice, pasta, noodles, etc with your meals
- Eating a smaller amount of bread and cereals.
- Not eating too many energy bars as snacks
- Avoiding cakes, biscuits, pastries and sweets
- Matching your use of sports nutrition products to the intensity of your workouts - for example you are likely to have a lower requirement for energy gels per hour during a three hour moderately paced ride than one which includes periods of hard interval training.

If you are looking to drop body fat a little, the base training period is the time to do this. Restricting calories, particularly carbohydrates, during the build and peak periods could compromise your training.

As your training ramps up, increase your carbohydrate intake proportionately but be careful to make quality choices that will maximise your nutrient intake. Pre-training is the time to take on board sugary carbs which will give a fast release of energy, eq juices, white bread, rice cakes. Post-training, wholegrain breads, choose wholemeal pastas, quinoa and oats for slow release Use starchy vegetables like energy. butternut squash and sweet potato to add nutrients to your diet, and remember that beans and lentils are sources of carbohydrate as well as plant protein.









Recipe of the month - Nepalese Chicken Curry

by Keshu Shrestha (see A Day in the Life by Megan Fletcher) - Difficulty: Easy

Ingredients:

8 Boneless chicken thighs

4 garlic cloves minced

Thumb size grated ginger

Red onion finely chopped

3 tomatoes chopped

2 tsp cumin

Half tsp chilli powder

1 tsp turmeric

Half tsp salt

5 Cardamom pods

4 Star anise

Spring onions

Coriander

Tablespoon olive oil

Basmati rice

Note - You can play around with the amounts of these ingredients to make it hotter or have different flavours.

Step 1

Add the oil to the heat, after a few minutes once it has started bubbling add the cardamom pods, star anise, onions, ginger and garlic. Allow to slightly

brown.

Step 2

Push the onions, garlic and ginger to the side of the pan. Add in the chicken thighs to the middle of the pan. Place them flat and turn until slightly brown on both sides.

Step 3

Mix the salt, cumin, chilli and turmeric in a bowl, sprinkle over the chicken making sure to cover both sides. It should create a nice brown cover for the

chicken.

Step 4

Add in the tomatoes, stir in well. Cover the pan with a lid and allow to simmer for 20 mins, stirring a few times.

Step 5

Take the lid off the curry to allow it to reduce. In this time you can make the rice to give the curry a good 10 minutes to thicken.

Step 6

Chop the spring onions and coriander. Sprinkle over the top of the curry to give it its final touch



AND A 'DAY-IN-THE-LIFE': JUDO ATHLETE MEGAN FLETCHER

Many thanks to Megan for taking the time to talk to us about all things nutrition!

Name: Megan Fletcher

Age: 31

From: Wokingham, currently living in the UK, based at the University of Bath.

Sport: Judo -70kg



Proudest achievement to date in your sport:

My proudest moment was winning my first Grand Prix medal in 2019 in Tel Aviv. After being just outside the medals for a few years it really was the most incredible feeling to finally be stood on that podium. I feel even luckier that it was the start of many more! Hopefully one will be gold really soon.

Difficulties (if any) encountered during COVID-19 Restrictions from a nutrition perspective:

I think the difficulties have probably been very similar to many athletes during lockdown. Limitations on training was a huge problem to try and tackle, particularly with us being in a contact sport. We have managed to work around it the best we could. Luckily I have had my brother (even if was flung around like a rag doll with him being 100kg) and my boyfriend (volunteering as tribute like an absolute legend) as training partners which has been so so lucky and like gold dust in such difficult times.

Main nutrition focus / priority areas:

Even though I'm in a weight-making sport I have had to make a conscious effort to gain weight in recent years. After always sitting around 69kg/70kg we decided we really needed to add some extra muscle to contend with the heavier girls in my category. With the help of Sharon and changing my perspective around fuelling sessions big gains have been made with me definitely feeling the positive effects on the competition mat even if weight cut is a little harder than I was used to! A big change in focus around nutrition was to think about fuelling the day before for the sessions the next day e.g. Sunday afternoon/evenings become an all you can eat in preparation for Monday's sessions. Adding in a second breakfast and always eating before bed have been key in helping me gain the extra kg's I needed.

Biggest Challenge:

My biggest challenge on competition day has been trying to eat enough in balance with my nerves. Throwing up before my first fight had happened a few too many times with huge amount of nerves (which let's be honest, is never a nice way to start the day!) To get around the struggle to keep breakfast down we have tried a few things but settled on a smoothie of milk, protein, peanut butter and banana to start me off.

On top of this it's all about the snacking and trying to top up through out the day as often as possible with what ever I can keep down. This would be post warm up, between matches, by adding in carb gels, caffeine gums and any foods that can be taken in small doses that would keep me going. I have found a hugely positive impact to my energy levels and performance since making the little but massively important additions! Particularly on the longer competition days where you can be in the arena for up to 10 hours!

A typical day (training & food):

First breakfast - seeded toast with Nutella/peanut butter or overnight oats or porridge

Second breakfast (on my drive to training) - smoothie with milk, protein, banana, berries

9am Session 1 - core stability and mobilisation 45 mins

Snack - Piece of fruit and a cereal bar

10am Session 2 - strength transition 60mins in the gym then on the mat

Lunch - jacket potato with beans and cheese

Pre session - coffee with a cereal oat bar

Session 3 - randori (sparing) 90 mins

Snack - protein shake with a piece of fruit on the drive home

Dinner - homemade Nepalese curry (recipe thanks to Megan's boyfriends Mum - see recipe of the month)

Pre bed snack - yogurt with oats, nuts, honey