Rugby Nutrition:
Bringing It All Together: Eating Plans

These eating plans have integrated ALL the best practice nutritional recommendations to meet your specific goals for rugby. The eating plans for training and recovery provide a guide on portion sizes with added tips and advice depending on your specific body composition goal:

- **PLAN 1**: If you want to lose weight and/or, reduce your body fat levels while maintaining your muscle mass.
- **PLAN 2**: If you want to maintain or increase your lean muscle mass.
- A match-day eating plan has also been provided.

**TRAINING and RECOVERY MEAL PLANS**

**PLAN 1**
The meal plan is recommended for a 90 kg player who wants to optimise their nutrition. For weight loss, see tips on the left and for decreasing fat mass and maintaining muscle mass, see tips on the right.

**PLAN 2**
The meal plan is recommended for a 90 kg player who wants to either maintain muscle mass (without fat loss) or increase muscle mass (see tips on the right).

Note bigger or smaller rugby players can apply the meal structure, but need to adjust the portion sizes accordingly.
### Goal: Weight loss
- Cut your breakfast cereal/porridge by half and choose high-fibre options for bulk.
- Cut the fruit and add plenty of salad to your sandwich/roll.
- Reduce your portion sizes – eat less carbohydrate and always choose lean protein choices with minimal fat.
- Plan and pack with suitable snacks for mid-afternoon (recovery) to avoid making bad choices when hungry.
- Reduce your portion sizes.
- Choosing fat-free dairy products helps to reduce your fat intake further.
- Limit choices concentrated in sugar – e.g. sports drinks and sweets.

### Goal: Optimise Nutrition
#### Breakfast:
1 banana OR 1 tbsp raisins OR 1 apple
1½ cups Cornflakes OR 1½ cups All-Bran
OR 1½ cups cooked oats OR ¾ cup muesli
*Plus* 250 ml low fat milk OR 150 ml low fat yoghurt/maas

#### Mid-morning:
1 apple OR 1 pear OR 2 naartjies
2 slices low GI bread OR 1 roll OR 6 Povita
*Plus* 1 tsp butter/soft margarine OR 2 tsp peanut butter OR ⅛ avocado OR 1 tbsp low fat mayonnaise
*Plus* 1 egg, boiled OR 30 g lean meat OR 30 g cheese OR ½ tin tuna OR ½ cup baked beans
*Plus* salad (lettuce, tomato, cucumber)

#### Lunch:
2 cups cooked rice OR pasta OR 2 rolls OR 4 slices bread
*Plus* 90 - 120 g lean meat OR 90 - 120 g chicken OR 1 tin tuna OR 120 – 160 g fish
*Plus* 1-2 tsp oil OR 1-2 tsp butter/soft margarine OR ¼ - ⅛ avocado
*Plus* vegetables/salad

#### Mid-afternoon:
6 Povita OR 4 rice cakes OR 1 raisin bun
30 g cheese OR 20 g lean biltong
1 cup melon or 1 pear
150 ml low fat yoghurt/maas

#### Dinner:
180 g lean meat OR 180 g chicken OR 240 g fish
*Plus* 1 tsp oil for food preparation
*Plus* 1 cup cooked rice OR 1 cup cooked pasta OR 1 cup samp OR 2 medium potatoes OR 1 sweet potato
*Plus* 1 cup cooked butternut / pumpkin /peas / carrots / corn OR 1 cup thick soup
*Plus* salad / other vegetables

#### Snack:
¾ cup fruit salad
150 ml low fat yoghurt/250 ml low fat milk

#### Extra:
1-2 X 50g carbohydrate ± 10 g protein servings to have after training
*Examples:*
- 250 ml low fat fruit yoghurt OR 350 ml drinking yoghurt
- 500 ml low fat milk plus 2 bananas

### Goal: Maintain muscle mass
- **↓ Fat mass**
  - Double up on your protein filling
  - Beef up your protein intake at lunch and supper – i.e. bigger portions of meat, chicken, fish or beans
  - Never miss a snack – this is a missed opportunity making it difficult to achieve your daily nutrient intake goals
  - Add an extra fruit and make a smoothie
  - Practice good recovery strategies to get the most out of your training program
**PLAN 2**

**Goal: Maintain muscle mass**

**Breakfast:**
1 banana OR 1 tbsp raisins OR 1 apple  
2 cups Cornflakes OR 2 cups All-Bran OR  
2 cups cooked oats OR 1 cup muesli  
Plus 250 ml low fat milk OR 150 ml low fat yoghurt

**Mid-morning:**
1 apple OR 1 pear OR 2 naartjies  
2-4 slices low GI bread OR 1-2 rolls OR 6-12 Provita  
Plus 1 tsp butter/soft margarine OR 2 tsp peanut butter OR ½ avocado OR 1 tbsp low fat mayonnaise  
Plus 2 eggs, boiled OR 60 g lean meat OR 60 g cheese OR ½ tin tuna  
Plus salad (lettuce, tomato, cucumber)  
250 ml low fat milk

**Lunch:**
2 cups cooked rice OR pasta OR 2 rolls OR 4 slices bread  
Plus 180 - 240 g lean meat OR 180 – 240 g chicken OR 1½ - 2 tins tuna  
Plus 1-2 tsp oil OR 1-2 tsp butter OR ½ - ½ avocado  
Plus vegetables/salad

**Mid-afternoon:**
6-9 Provita OR 4-6 rice cakes OR 1-2 raisin buns  
60 g cheese OR 40 g lean biltong  
1 cup melon or 1 pear or 125 ml fruit juice  
150 ml low fat yoghurt/maas

**Dinner:**
240- 300 g lean meat OR 240 – 300 g chicken OR 320 - 400 g fish  
Plus 1 tsp oil for food preparation  
Plus 1½ cups cooked rice OR pasta OR 3 medium potatoes OR 1 large sweet potato  
Plus 1 cup cooked butternut / pumpkin / peas / carrots / corn  
Plus salad / other vegetables

**Snack:**
½ cup fruit salad  
150 ml low fat yoghurt/250 ml low fat milk

**Extra:**
1-2 X 50g carbohydrate ± 10 g protein servings to have after training.  
**Examples:**  
- 250 ml low fat fruit yoghurt OR 350 ml drinking yoghurt  
- 500 ml low fat milk plus 2 bananas

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**Goal: Increase muscle mass**

**Breakfast:**
Add 2 slices bread/toast with a protein (egg, cheese, lean meat or fish) topping for extra carbohydrate and protein

**Mid-morning:**
This also serves as a recovery option especially when training twice a day.

**Lunch:**
Choose the larger protein portions (upper end of range) to meet your additional protein requirements

**Mid-afternoon:**
For gut comfort, go for less bulky options such as rice cakes and fruit juice

**Dinner:**
Add extra fruit, juice and peanut butter for a delicious smoothie
MATCH-DAY EATING PLAN (before, during and after the match)

To get it right on the day of the match you need to fine-tune your training and recovery nutrition strategies. Part of this fine-tuning is to maximise your glycogen stores in the last 2-3 days before the match and to stay adequately hydrated. Never try anything new, stick to familiar foods and well-rehearsed strategies [1].

Two to Three DAYS Before the Match

- Eat carbohydrate-rich, low fat meals and snacks throughout the day
- Stay adequately hydrated by drinking small amounts regularly

2 -4 HOURS Before the Match

- Eat a high-carbohydrate low fat meal 2-4 hours before the match, with some lean protein. If not possible, eat a carbohydrate-rich snack 2 hours before the match.
- Choose low fibre, easy to digest carbohydrates to prevent abdominal discomfort – cereals, rice, potatoes, sweet potato, brown bread etc.
- To avoid abdominal cramps it may also be useful to avoid lactose-containing foods and drinks before exercise. Establish a routine of emptying the bowel before a match.
- Practice different meal combinations in training and if a meal is not tolerated, try a liquid meal replacement or a fruit smoothie instead.
- Hydration is important. Drink 250 – 500 ml fluid with every meal – milk, water, fruit juice, cold drink, sports drink.
### CHOICES for PRE-EVENT meals

<table>
<thead>
<tr>
<th>A pre-event BREAKFAST</th>
<th>A pre-event LUNCH or DINNER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fresh or pureed fruit or fruit salad, fruit juice</td>
<td>Rice or pasta OR potatoes, sweet potato OR pap (maize porridge)</td>
</tr>
<tr>
<td>+ Cereal or porridge with low fat milk/yoghurt</td>
<td>+ Grilled chicken OR fish/tuna OR lean mince with vegetables and/or salad</td>
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<tr>
<td>+ Bread, rolls, muffins, crumpets, pancakes or toast with jam or honey</td>
<td>+ Extra bread, rolls with jam or honey, peanut butter, reduced-fat cheese</td>
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<tr>
<td>+ Eggs, boiled or poached, lean ham or reduced-fat cheese</td>
<td>+ Fresh or pureed fruit, low fat yoghurt</td>
</tr>
<tr>
<td>+ Water</td>
<td>Milk, flavoured milk, fruit juice, sports drinks and water</td>
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</tbody>
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#### 1-2 HOURS Before the Match

- Eat a high carbohydrate, low fat, low fibre snack, including drinking fluid.

- Sandwich/roll with lean protein filling (egg, tuna, chicken, lean ham, reduced fat cheese)
- Cereal with low fat milk and fruit
- Low fat muffin, crumpets or pancakes + fruit / juice
- Cereal bar + fruit
- Fruit smoothie OR low fat drinking yoghurt + fruit
- Energy bar + sports drink
Less than 1 HOUR Before the Match

- Before kick-off, top up fuel stores with a small snack/drink with at least 50 g carbohydrate: sports drink, carbohydrate gel, sports bar, cordial, fruit lollies.
- Immediately before the game, drink 250 – 500 ml fluid, as this primes the stomach and assists with emptying.

DURING the Match

- Fluid is important to prevent any dehydration.
- Know your fluid requirements in different environmental conditions.
- Drink at the following times to maintain fluid requirements – stoppages, injury- and half-time.
- Include 30 – 60 g carbohydrate every hour to delay fatigue and maintain skills and concentration. Sports drinks provide fluid and carbohydrate. Fluid should not be forgotten if consuming gels, bars, sweets (jelly sweets) or solid food.

RECOVERY within 1 HOUR After the Match (see additional documents on the BokSmart website)

REFERENCES


For more information on Rugby Nutrition, go to the BokSmart website www.BokSmart.com or go to the following link: http://boksmart.sarugby.co.za/content/eating-and-drinking-right

Document Compiled by Shelly Meltzer RD(SA) and Cecily Fuller RD(SA), Shelly Meltzer & Associates