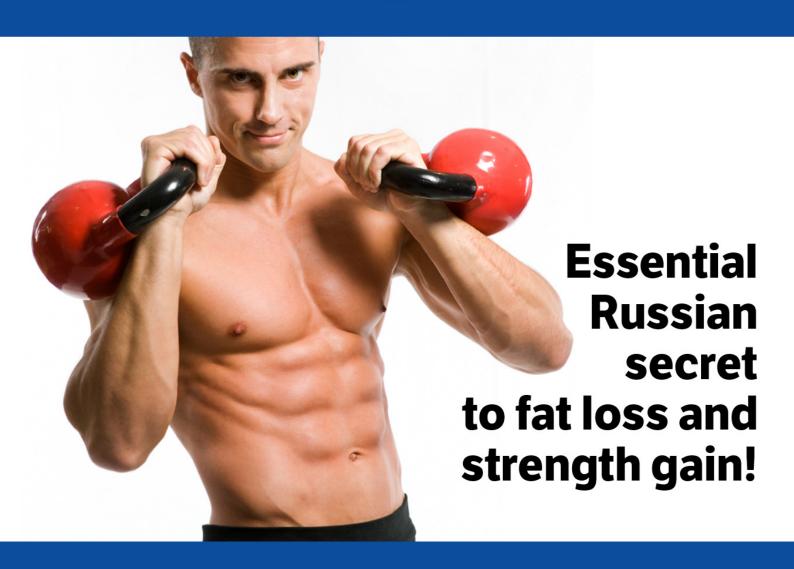
KETTLEBELL BASICS 101

Complete Beginners Training Manual



BestKettlebellWorkout.com

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DISCLAIMER

All kettlebell exercises are safe and beneficial to your health when done correctly, this book provides instructions with every care and attention to make sure that every trainee is catered for, and all risks are minimised. However no matter how good the instruction, it is no substitute for proper common sense. Therefore we cannot be held liable for any injury, damage to property, or other negative consequences arisen by your from your kettlebell training.

The information in this book is for educational purposes only. The ideas, concepts, and opinions expressed in this book are based on the author's personal experience, his interpretation of current study on kettlebell training, and from years of experience teaching trainees in kettlebell training. This book is NOT medical advice, nor is it intended to replace it, and the author is NOT a general practioner.

We also recommend that you seek professional medical advice before doing any exercise to ensure suitability for your current level of fitness and conditioning, and BestKettlebellWorkout.com cannot be held responsible for any injuries incurred from performing exercises without correct supervision.

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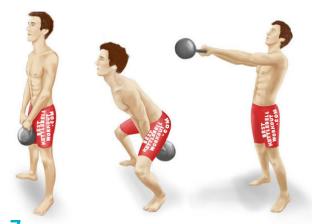
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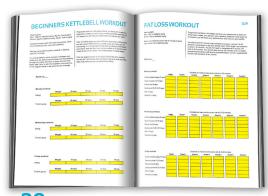
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MESSAGE FROM THE AUTHOR

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Over time this book will expand and contain more sections like diet, training tips, advanced training guidelines.

Inside this free kettlebell basics 101 book, I'm going to share the secrets on how to lose weight fast, and at the same time get leaner well toned and defined muscles. In the process of doing kettlebell workouts you will become extremely fit in the process as well.

You may have heard this already, but kettlebells have a strong reputation for being simply the best and most efficient fat burning tool, but the peculiar thing is that kettlebell workouts were never intended to be just for fat loss, for a long time kettlebell workouts were regarded as a formidable conditioning and training tool by athletes and special forces units.

Just like them you can achieve the amazing results possible by kettlebell workouts, all the information is provided to you, in this book. For free.

- Kettlebell workouts are regarded as the great physique stabiliser, someone whose weak and limp to begin with can get on the programme to get nice well defined muscles. On the flipside someone whose overweight and fat can drop all the fat like it's all just dropping off during their bowel movements. But you have to put the work in. Like everything in life, work put in = results achieved. If you don't put in the work you don't get to see the results.
- Kettlebell workouts can make training fun and interesting, they're nothing like the boring cardio work or weights routine you do in the gym. You can get a challenging, intense but fun, dynamic and engaging workout, unlike any you've probably done before. This means that you achieve the results! Some many people plateau in their training or get bored and give up. Which means they never achieve their goals.
- If you're thinking "I'm too busy to work out", think again. Kettlebell workouts are portable and you can take them anywhere, you can even train inside your home, or in your garden, at the park. Hell you can even do it in the gym! The workouts are short, last a maximum of 30 minutes and you can be done with before your kids are done watching their favourite TV programme, or if you're a working, you can get a full workout in your lunch hour.
- This book isn't trade for money, it's for FREE, I'm not here to bullshit you or tell you something that isn't

true, because I might be worried that you may request a refund. I'm going to be brutally honest here. Everything I will tell you has been taught to me by professional kettlebell instructors and has worked for me, and I have trained my clients using these techniques so I know that they will give you the results you want.

I have laid out this book to be a beginners guide to kettlebell workouts, hence why it's called kettlebell basics 101.

I understand there is a overload of information out there, and even books directed at beginners who detail over a hundred different exercises.

This is complete baloney, you don't need to learn hundreds of exercises the few basic exercises like the Swing, Turkish getup, snatch, press and windmill cover all the muscles in the body and just doing these exercises will give you a well rounded workout. Which is why on the first part of this book I detail all the requirements for these exercises.

One the second part of the book I have put together a straight forward and easy to read set of instructions on how to put the exercises together to form a solid workout. You should choose your workout based on your fitness and training goals.

Over time this book will expand and contain more sections like diet, training tips, advanced training guidelines.

This book is my baby, and I'm going to keep on working on it non-stop, my dream is to turn it into a 200 page complete manual for kettlebell trainees, so make sure you stay subscribed onto the newsletter and you will receive a newer version of the book via email.

If you have any comments or suggestions feel free to email them to me on totatallyunreactive@gmail.com
Abdul Karim Quresh

KETTLEBELL EXERCISES

Learning proper kettlebel technique is paramount for effective training

On the following pages you will learn exactly how to perform the key kettlebell exercises needed for the workouts, use them regularly as reference



KETTLEBELL EXERCISES **SWING**

The kettlebell swing is the bread and butter of all kettlebell workouts, and makes for a intense and exhilarating workout, kettlebell swings help develop strong posterior chain (glutes, hamstrings, back, shoulders) muscles and boosts cardio vascular endurance.

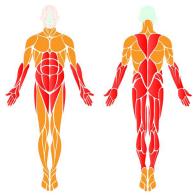
If there's one technique that you had to learn, it would be the kettlebell swing.

The kettlebell swing trains all the muscles that you would normally use for a vertical leap, except you transfer the explosive force onto the kettlebell to move it up. The kettlebell is important as it allows you to do the exercise over several repetitions and progressively increase the load, to improve your work capacity.

Because of this the kettlebell swing is a fantastic workout for improving your broad jump and vertical jump as well as your sprint, it is also a fantastic exercise to improve and assist your squat and deadlift maximum lifts as well.

To begin you take a wide stance, with your feet roughly 1.5 times your shoulder width, and toes pointing slightly outwards, this is important to make space for for the kettlebell to swing backwards and the wide stance gives you stability during the upper portion of the lift.

Squat down with your back completely straight (do not confuse this with vertical back), and lift up up the weight, [remember to keep your head straight and look across the room while you perform the exercise], squat up and stand erect with your shoulders back.



TARGET: Posterior chain (glutes, hamstring, shoulders, back)
DIFFICULTY: low



Tooltip

The target repetition for this exercise is 15, but when you first begin aim for 30 repetitions with a light weight in order to learn the technique

Note: during the swing, you do not use your arms to lift up the weight, the swing is not meant to work your arms, the arms simple role is to act as the carrier, and bit like a rope hanging a pendulum and does not use any force of it's own.





3 To begin the movement of the kettlebell, you should squat down (pushing your hips back) until the kettlebell is well clear of your groin, and flick the kettlebell back between your legs, this is the only time you use your arms to push the weight across, to begin the momentum, the arms should not move the weight during the swing.

At this point in the swing, you should have your forearms push up against your groin and the kettlebell extending out behind you. After the kettlebell reaches it's peak decline, you will simultaneously squat up and thrust your pelvis forward 4 This will cause your back to righten vertically which causes the kettlebell to propel forward. You should aim reach chest height. On the right, this is the optimal height you want the kettlebell to be in for the Russian kettlebell swing, for beginners this is the preferred height

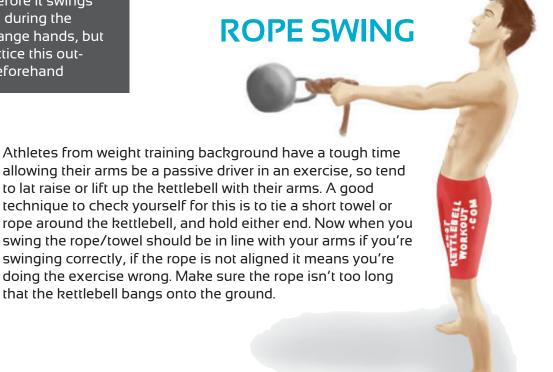
For repetitions you simply let the kettlebell fall back into it's arc, while you hold the bell with your extended arms at all times, as the kettlebell lowers, you squat down slightly with your hips back and repeat again for reps

SINGLE HANDED SWING

Single handed Swing: Once you have mastaered the double handed swing it's important move onto the single handed swing because you will need to use the single handed swing technique for the clean and snatch. The only real diference between the single handed and doublr handed swing is that you need to consciously keep the kettlebell in the centre and in it's patth

Tooltip

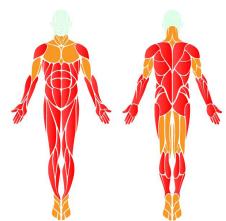
Swapping hands: When doing the single handed swing it's possible to change hands mid swing, when the kettlebell swings up at the highest point, it will for a brief moment pause before it swings back down again, during the peak, you can change hands, but remember to practice this outdoors on grass beforehand



KETTLEBELL EXERCISES TURKISH GETUP

The Turkish getup is a fantastic exercise to build shoulder muscles, and all round strength and conditioning. It's particularly useful for wrestlers, MMA fighters, BJJ and other combat athletes that use both standing and ground positions.

The Turkish getup is a freestyle type kettlebell movement which is unassuming powerful for developing strong shoulders. It's also fantastic for your core, and combined with the kettlebell swing can make for an extremely intense workout.



TARGET: Shoulders, core, quad and calves

DIFFICULTY: medium



To begin the exercise lie flat on the floor, face up, carefully placing the kettlebell roughly 12 inches beside your right arm.



Roll onto you right, towards the kettlebell, grab the kettlebell with two bent arms. This is important, trying to lift with just one arm will damage your shoulders



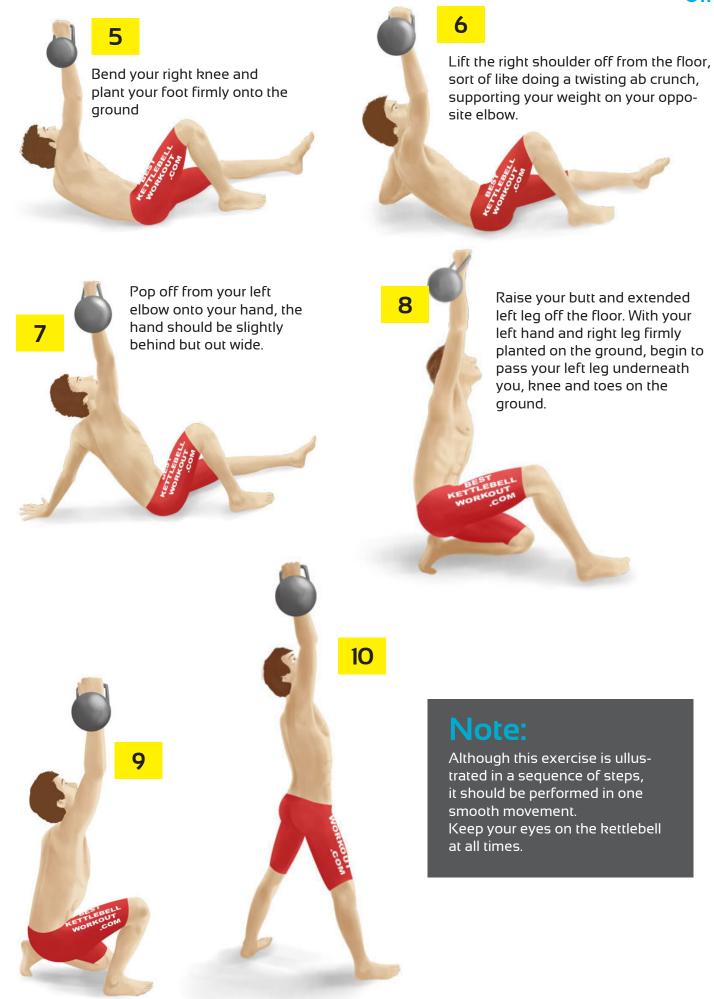
Roll back onto your back firmly gripping onto the kettlebell



Gently let go of the kettlebell with the left hand, and bench press the weight up with your right hand, make sure your arms are fully vertical from the floor and elbows are locked out, from this point onwards unless directed the kettlebell will be held in this position.

Tooltip

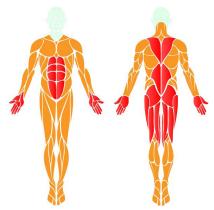
Keep your back straight at all times during theis lift Practice with light weights when you first start this exercise



Stand up, hold the position, and then reverse the process to sit back down

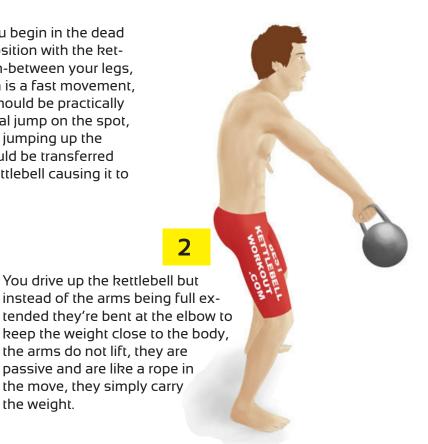
KETTLEBELL EXERCISES CLEAN

The purpose of the clean is to quickly lift up the kettlebell up in front of your shoulders, resting it on top of your forearm [4], in order to perform front squats or the kettlebell press. Unlike barbell cleans, the kettlebell clean is not an exercise in it's own right, but is essential to learn in order to perform the other lifts.



TARGET: Hamstrings, glutes, core and lower back DIFFICULTY: medium-low

You begin in the dead lift position with the kettlebell in-between your legs, the clean is a fast movement, and you should be practically doing a vertical jump on the spot, but instead of jumping up the energy should be transferred onto the kettlebell causing it to propell up.

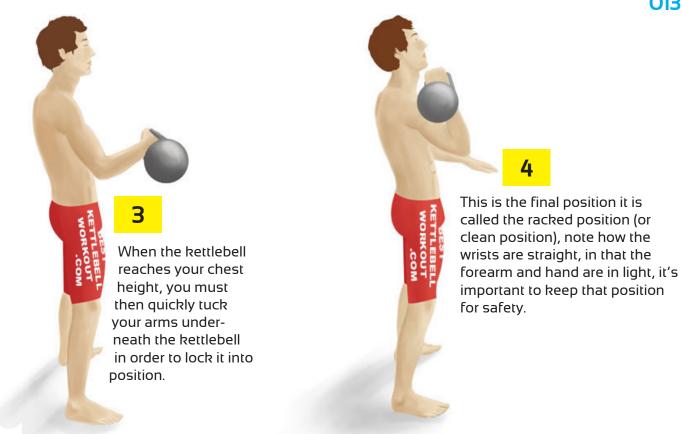


Power Tip

However, before you begin to learn how to do the clean, you must learn to lower the kettlebell from the rack position, with two arms place the kettlebell in the rack position [4] and then maintain the rack position with one arm and use the other arm to carefully push the kettlebell over the holding hand and then lower the weight back to the dead lift position, and then onto the floor.

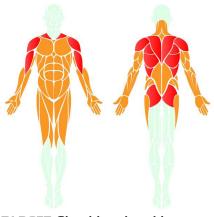
Repeat the descent several times, until you get it right, and then practice the ascent of the lift.

the weight.



KETTLEBELL EXERCISES PRESS

The kettlebell press is great exercise to build formidable shoulder strength, to perform the press you must begin from the rack position, achieved by doing the kettlebell clean.



TARGET: Shoulders, lats, bicep **DIFFICULTY: medium-low**

You start off the in rack position, your body must be tense, shoulders down, elbows tucked in and lats out wide, your abdominal muscles must be tight to provide support around your waist, the glutes tense and the knees fully locked out. You must not try to propel the kettlebell up with your legs. Although the body from shoulders down does not lift the kettlebell in

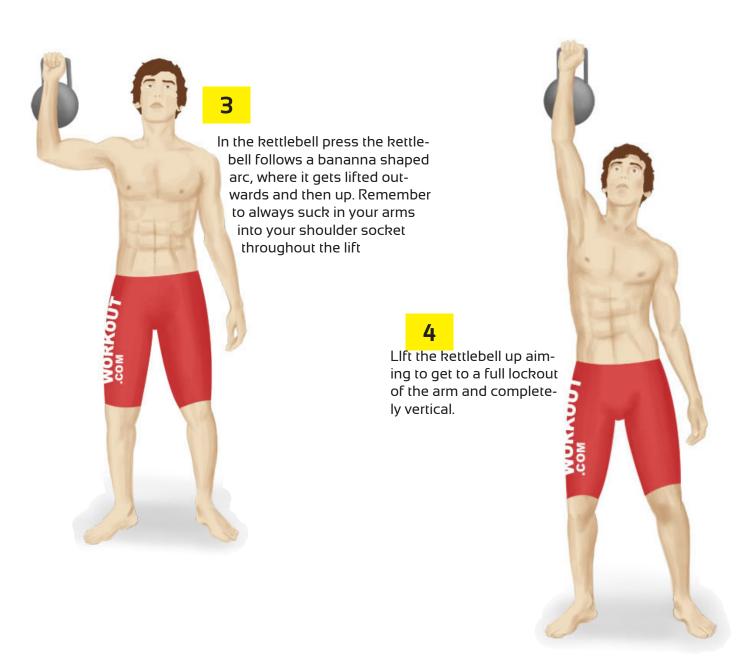
the press, it has an important role in creating a solid base for the shoulders to lift the kettlebell.

From the rack position, rotate the shoulders out so the forearms are vertical and the back of your hand is facing behind you



Variation in the kettlebell press

The bottom up press: You can press the kettlebell upside down to challenge your grip even more, you must grip the handle super tight, to stop the kettlebell from falling sideways, be careful not to drop the weight on top of you and use a light weight to begin. You may need to use chalk to get a better grip



Further pointers for performing the kettlebell press

At the rack position lower shoulders down as much as possible, so the muscles around the shoulders are stretched, this allows the muscles to load up and get better leverage to perform the kettlebell press. Your elbows should touch your hip bone at the stretched out position.

Flare out your lats (back muscles) so they stretch outwards, doing so provides the shoulders more stability, and helps with the lift. The lats are the secondary work muscle in the kettlebell press.

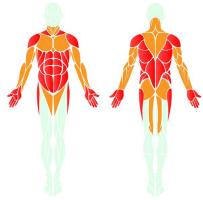
Grip the handles as hard as possible, this allows you to have more control of the kettlebell, and helps engage the arms in the lift.

When pressing the kettlebell, mentally focus on your shoulders and lats to drive the weight up, the shoulders and lats are the main movers in this lift, not the biceps.

Instead of trying to focus on lifting the kettlebell, focus on driving yourself into the ground (away from the kettlebell), this helps to lift better for some reason

KETTLEBELL EXERCISES WINDMILL

The windmill is a fantastic exercise to build oblique strength and flexibility; it's regarded more as a support exercise. In order to learn it, it's best if you practice without any weight to begin with. Begin by standing shoulder widths apart, and toes pointing slightly out.



TARGET: Core, lats, obliques and shoulders

DIFFICULTY: medium

1

Raise the right hand vertical (overhead) and locked out, and kick the left hip out slightly (important to do this to balance the weight), your left hand should be loose and dangling freely. Now breathe in.

Breathe in and hold your abdominals tight during the lift, it protects your back by giving it a brace, do not let go of the brace during the life.

2

Look up at the kettle-bell/hand, and bend at the hips towards the left, glide your left hand down your thigh, to act as a guide. Towards the bottom of the movement the left leg may bend a little, this is absolutely fine. The left leg should always be locked out.

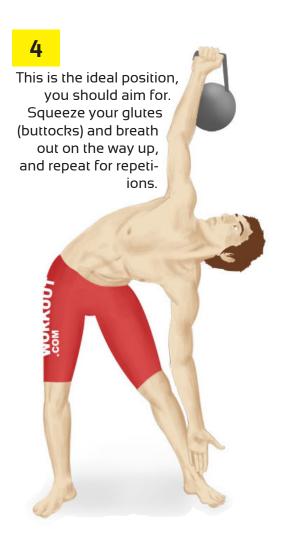


Note:

This exercise is more difficult than it appears, make sure you do a few runs without any weight, you are ready to start using a kettlebell, remember start of super light, using aerobics weights and increase to a challenging weight gradually.

3

You should continue to bend at the hips until your right hand touches ground, if you do not have the flexibility yet, go only as far as you comfortably can. If you are inflexible, this is probably the furtherest you can go, it's fune you can build up on your range of motion with time and practice.



Safety

It's important to work your way up to the weight kettlebell windmill exercise, many people have pulled their oblique muscles during the lift, and then jerked and dropped the overhead kettlebell on their head. Practice caution with this exercise.

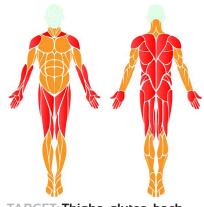
Pro Tip

When performing the exercise you bend to the side and slightly forward, never backward.

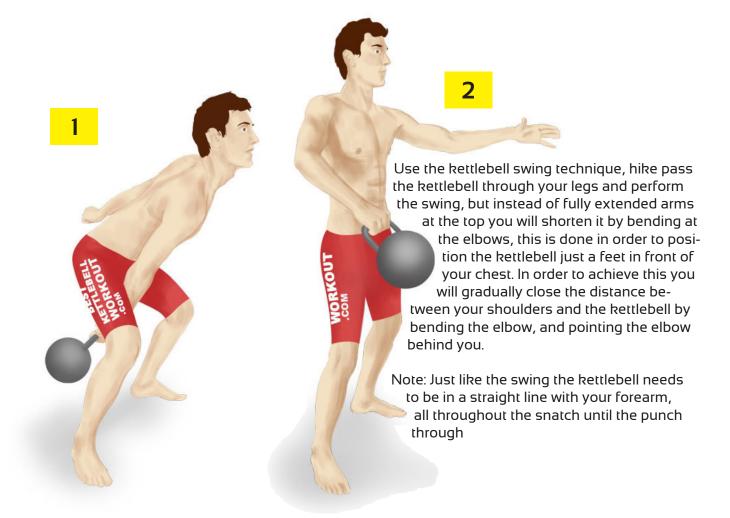
KETTLEBELL EXERCISES SNATCH

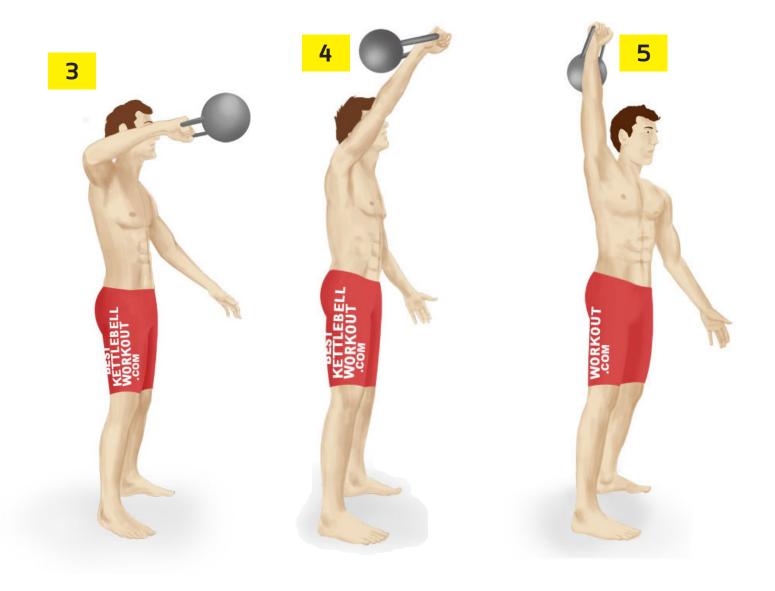
The kettlebell snatch is one of the most difficult moves to get right, and should only be attempted after mastery of the kettlebell clean; the lift basically involves lifting the kettlebell from the ground to the overhead locked out position in one move.

The most challenging part of the kettlebell snatch is getting the punch through at the end of the move right; so that you can position the kettlebell behind your wrist without is banging and bruising it.



TARGET: Thighs, glutes, back, shoulders, forearms
DIFFICULTY: hard





3 When the kettlebell reaches the chest height, you will reverse pull the kettlebell using your shoulders and your lats, do not try to strong arm the ke tlebell, you will wear your arms out.

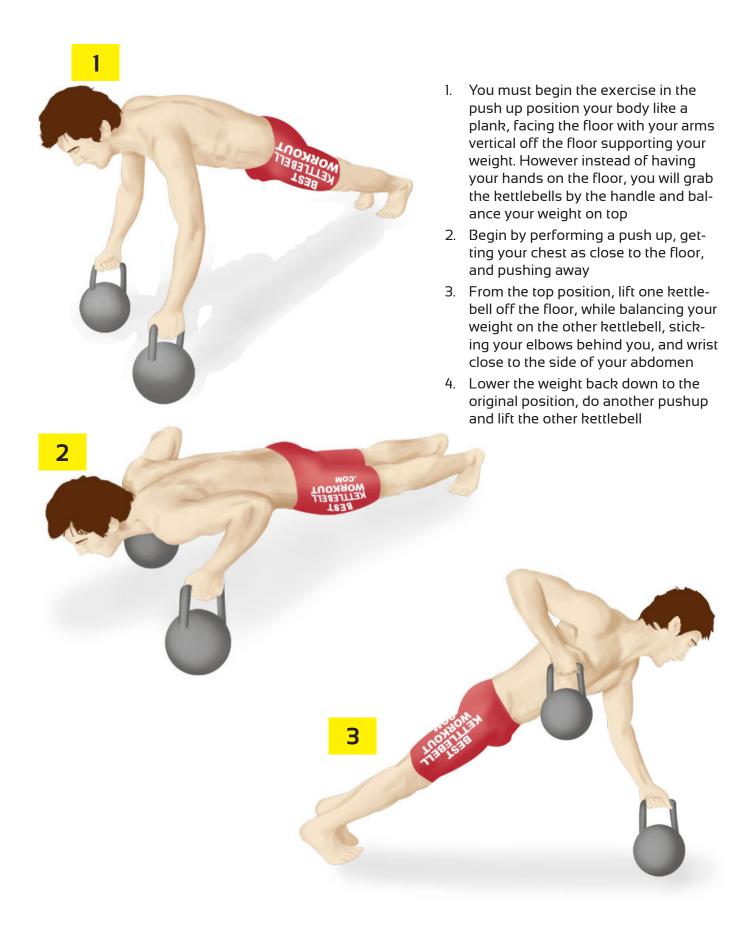
4 When the kettlebell goes just higher than your head, you need to begin the punch through to extend and lock out your arms to complete the lift. Timing is crucial here, and the secret to not banging the kettlebell onto your arm is to not let it fall on the back of your arm, but rather to punch through with your arm. A mistake a lot of people make is they leave it til too late for the punch through and the kettlebell is already too high, and must fall down and bang on your wrists.

Note: If you are leaving the punch through too late, you may need to revise your technique and gradually punch through sooner.

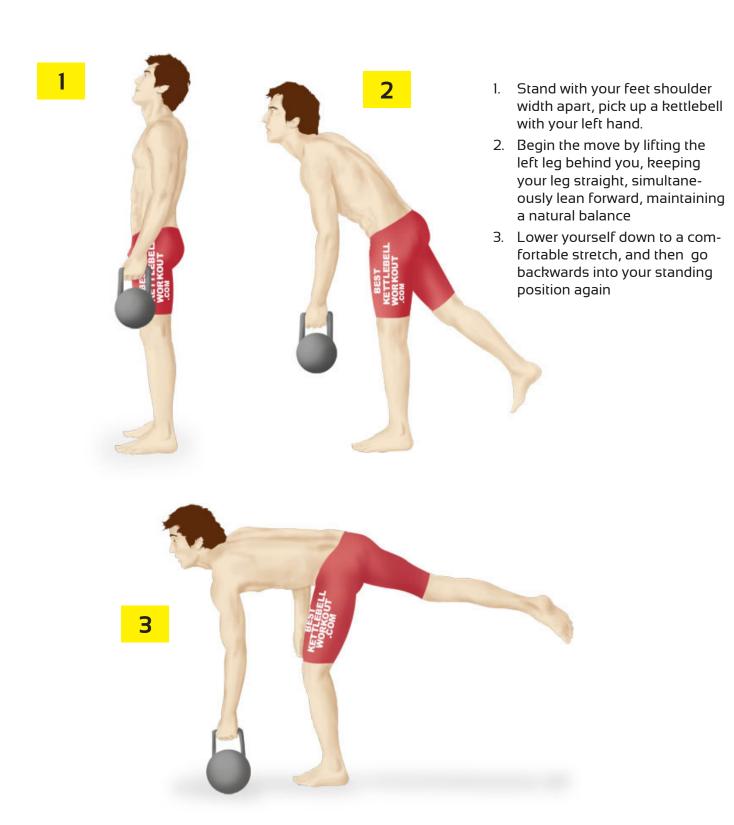
The correct time to punch through is when the kettlebell is at O gravity, where it's stopped going up, there is a slight pause, before it's about to go down, do the punch through. When you punch through correctly the ball of the kettlebell stays in the same position as before the punch through, and it seems like only the handle has changed from bottom to top. Effectively there has not been any descent of the kettlebell, therefore no banging.

5 You may need to practice this technique several times over in order to get this right, to prevent excessive bruising, use a very light weight to perfect the technique.

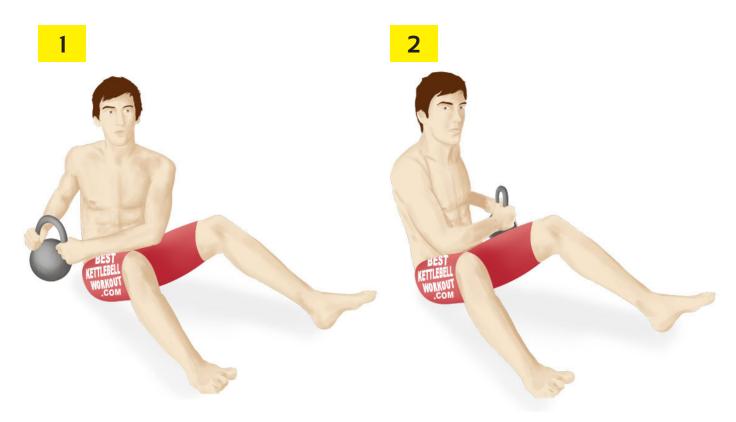
RETTLEBELL EXERCISES PUSH PRESS



KETTLEBELL EXERCISES SINGLE LEG RDL



RUSSIAN TWIST



- 1. Lie down in the situp position with a light kettlebell to your side
- 2. Keep your legs slightly bent
- 3. Pick up the kettlebell from your side and perform a twising motion caring the kettlebell to the opposite side and back again
- 4. Go as far back as you comfortably can without over extending

Note

Make the movement slow and controlled

KETTLEBELL WORKOUTS

Learning proper kettlebel technique is paramount for effective training

On the following pages you will learn exactly how to perform the key kettlebell exercises needed for the workouts, use them regularly as reference points for your kettlebell workouts



KETTLEBELL WORKOUTS BEGINNERS WORKOUT

The beginners workout is perfect for male and female trainees who are working out with kettlebells for the first time or starting exercise after a long time off

Clothing

To train using kettlebell you will need to wear loose clothing, preferably a pair of shorts that will give you full range of motion to moves your legs around, and a t-shirt.

Footwear

Many kettlebell enthusiasts like to train barefoot; others wear vibram fiverfingers which gives them all the benefit of barefoot without the discomfort of stubbing your feet on uncomfortable surfaces. If you decide to wear shoes, wear flat soled shoes like converse all stars. Shoes with uneven soles or cushiony/spongy soles should be avoided. The reason for this is with kettlebell workouts you need to have close contact with the ground for stability, and shoe which obstructs your feel of the ground is undesired.

Kettlebell Weight

Men: 16kg for kettlebell swing, 8kg for Turkish getup

Women 8kg for kettlebell swing, 4kg for Turkish getup

These weights may not seem like a lot, but with active recovery, it will be challenging for beginners to complete the work. Additionally it's important to start off with a light weight in order to learn the technique. Use particularly light weights for the Turkish getup when starting out.

The Workout

4 sets of kettlebell swings @ 15 reps

4 sets of Turkish getups (a) 30 seconds each set, alternate hands between reps

This workout should take no more than 20 minutes to complete; you will need a 2 minute warm-up before exercise and follow 1 minute active recovery in-between sets, you will then do a brief cool down of 3-4 minutes at the end of the workout, all using a jump rope.

Your main focus is not to plough through the exercises at high speed; you should take your time to do the exercises after plenty of recovery, and with attention to your technique. This is particularly the case with the Turkish getups.

Active Recovery

It's important to perform light intensity anaerobic activity like jogging, dynamic stretching, stationary bike or whichever you prefer and have access to. They help to increase blood flow which delivers oxygen to muscle cells and clears up lactic acid build-up. Its secondary goal is to aid the heart in pumping blood around the body, sitting still in-between sets makes it tougher on the heart to pump blood around the body.

KETTLEBELL WORKOUTS FAT LOSS WORKOUT

This workout is perfect for people whose main goal is to lose fat, the relatively low weigh and high repetition workout is ideal if you do not want to gain muscle tone.

The main focus for kettlebells is the full body workouts, the whole body moves as one and there are no isolation movements, this makes for far quicker and more intense workouts. Perfect if you have a busy life.

Tools Required

Women: 8kg pair of kettlebells Men: 16kg pair of kettlebells

(This is probably right for the majority of beginners, give or take depending on your experience)

Medicine ball, approximately 5kg, you can improvise with weight plates, or water bottles (1 litre is approximate 1 kg)

You will need an open space, somewhere that if you were to drop the kettlebell it will not cause any harm and free from children or pets.

Directions

Repeat this circuit 4 or 5 times, ideally work out 3-4 times a week, but the minimum should be twice a week. Exercise directions provided below, if none given then the exericse directions can be found in the previous chapter

The Workout

1. Double handed kettlebell swing

Target reps: 15

2. Clean and press

Target reps: 12-15 each arm

3. Russian twist (legs straight)

Target reps: 8 repetitions each side.

4. Double push-up lift off

Target reps: 12-15 reps each side

5. Single leg RDL

Target reps: 15 reps each side

6. Windmills

Target reps: 12 reps each side

SNATCH TEST

The 10 minute snatch test is a gruesome, intense and stomach churning workout that challenges both your physical abilities and your mental strength.

In fact the exercise has been selected specifically by the united states Special Forces units in order to push recruits to the limit to weed out weak individual and separate them from the mentally strong.

You can do this workout to test your fitness and mental fortitude, the goal is to perform as many snatches as possible in the 10 minute time slot. Count your full repetitions and repeat the snatch test every month to see how much you have improved.

The standard for men is to use the 24kg kettlebell for the snatch test, and 16kg for women.

Obviously if you're not strong enough to do use these weights, start off light and build your strength up, if you're already strong, then more power to you.

Notes on performing the snatch test

- 1. Learn correct snatch technique here
- 2. Remember that when you are tired, you lose concentration and can let the technique slip, always have the technique at the top of your mind
- 3. You will start to get very tried around 3-4 minutes time, and it will get progressively harder until 7 minutes, when the pain plateaus, and then you get used to it. So if you're tempted to quit, don't.
- 4. Although this may sound contrary to point 3, but don't clock watch, get some else to time you, or set a timer to go off in 10 minutes, your focus should be on each lift, zone into the now, and forget about time left, focusing on the time left will break you.
- 5. Find a pattern of hand switch that works for you, I like to change hangs every 10 reps, it always helps with my counting if I count in blocks of 10.

KETTLEBELL WORKOUTS MMA WORKOUTS

Kettlebell workouts are used extensively in MMA training as they allow trainees to closely mimic the physical requirements of MMA very well. It gives athletes the perfect balance of anaerobic workout and strength conditioning ideal for MMA, allowing fighters to build strength that will last throughout the course of a fight.

In addition to this the versatility of kettlebell training allows you to focus in target muscle groups to specifically training for certain movements such as the takedown, ground game from top or bottom positions and the clinch. It can even help improve your striking with the ballistic movements of kettlebell training like the snatch and jerk which allow you to punch and kick faster and harder.

This workout should be considered a beginners routine as it will focus on building strength and endurance for basic moves, at an advanced stage it's possible to target very specific movements such as the hip turn to improve hip rotation for the muay that kicks and the cross. The simplicity of the kettlebell always makes it very versatile and can be easily tailored to achieve highly specialised training goals.

These explosive movements should be done at the beginning of your workout when you have plenty of energy. Aim to do 3 sets of one of these exercises on one given day at the start of the workout.

Exercise 1 - Kettlebell Dulk Walk

The duck walk is utilised by freestyle wrestlers to build exceptional takedown strength, this works both the large and small leg muscles and is a great exercise to do to balance any left/right imbalances in muscle strength.

Do the duck walk for I minute using the same weight you would use for your kettlebell swings, to begin start from a standing position and clean the kettlebell up to your shoulder height. Then perform I minute of slow, steady nonstop kettlebell duck walk.

You grab two kettlebells and get into the rack position, then you squat down low until your thighs are touching your calves, while balancing on the balls of your feet, walk up and down, you should waddle like a duck as you walk, stay low





Working sets: 3 sets @ 1 minute each

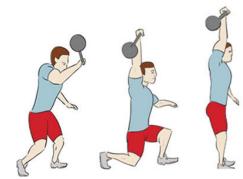
The kettlebell split jerk is a lot like the split snatch, and it cannot be stressed enough for these exercises to work as their should you must visualise trying to get yourself under the kettlebell rather than lifting the kettlebell up.

Exercise 2 - Kettlebell Split Snatch

Explosiveness is crucial for takedown as it the source of power and more important the element of surprise, the reason why George St. Pierre's takedowns are so effective is for both of these reasons.

The kettlebell split snatch trains the explosiveness very well. The split snatch goes as follows, start off with the kettlebell between your legs on the ground, squat down with your back straight and bum sticking out, now





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snatch the kettlebell up, but unlike the traditional kettlebell snatch, instead of punching through after the high pull lunge forward, so you're effectively pushing yourself under the kettlebell rather than lifting it up.

The exercise is very effective for building explosiveness. You should aim to do reps of 3 to 5, but no more than 5. Explosiveness is more about snap strength rather than endurance, and doesn't quite work if you're tired.

Note: Learn the snatch technique first

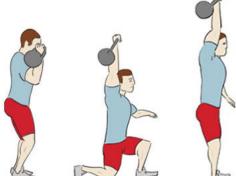
Exercise 3 - Kettlebell Split Jerk

tion. Next stand up to complete the rep.

couple reps more than the snatch.

To perform the split jerk, get the kettlebell up into the clean position, also known as the rack position. Bend your legs slightly so dip down maybe 2 inches, now in a fast motion as if you were pushing yourself away from the kettlebell, push the kettlebell up at the same time get into a deep lunge posi-

The split jerk is slightly easier than the split snatch so aim to do a



BEGINNERS KETTLEBELL WORKOUT

Ideal weights

Men: 16kg for kettlebell swing, 8kg for Turkish getup Women 8kg for kettlebell swing, 4kg for Turkish getup

Complete workout with 5 minutes of jumprope, treadmill or stationary bike, jump rope preferred.

Warmup using stationry bike, treadmill or skipping rope for 5 minutes.

It is vital to perform active recovery, inbetween sets make sure you walk around to keep your blood flowing through your body, DO NOT sit down and rest inbetween sets. Note: a set is full repetition of an exercise, in the diagram below, a set would be one rectangle box

Programme contains a full weeks workout, you should aim to work out three times a week, you will print out a workout sheet for each week up to 6 weeks, you will track your performance and improve your performance each workout

Note: for turkish getup you are not lifting for reps, but time (30 seconds per set), speed of lift is irrelivent, as long as you are moving you are exerciseing, it is not important to time each set, when you have found your speed, work out how many reps you perform in 30 seconds, and simply lift up to that number, if you change speed or change weight, retime yourself to work out your 30 second reps again.

Fill in the weights column for the weight lifted for the entire exercise, and tick the "reps" boxes when complete, if you fail to do all reps write down how many reps you completed before failure.

Week	no:	
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Monday workout

	Weight	15 reps	15 reps	15 reps	15 reps
Swing					
	Weight	30 secs	30 secs	30 secs	30 secs
Turkish getup					

Wednesday workout

	Weight	15 reps	15 reps	15 reps	15 reps
Swing					
	Weight	30 secs	30 secs	30 secs	30 secs
Turkish getup					

Friday workout

	Weight	15 reps	15 reps	15 reps	15 reps
Swing					
	Weight	30 secs	30 secs	30 secs	30 secs
Turkish getup					

FAT LOSS WORKOUT

Ideal weights

Men: 16kg for kettlebell swing Women 8kg for kettlebell swing

Begin and end fat loss circuit with 5 minutes of jump rope, thread mill or stationary bike

Programme contains a full weeks workout, you should aim to work out three times a week, you will print out a workout sheet for each week up to 6 weeks, you will track your performance and improve your performance each workout

You should aim for minimal reps between exercises, around 15-30 seconds, just enough to get your breath back. With longer rest between rounds (1-2 minutes). You do not need to complete all 6 rounds, the norm is 3-4 rounds. You should work out up 20 minutes and no longer, inexperienced trainees will tend to complete fewer rounds, experienced trainees will complete all six rounds.

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Monday workout	Complete as many rounds as you can in 20 minutes						
	Weight Round 1 Round 2 Round 3 Round 4 Round					Round 5	Round 6
Double kettlebell swing (15 reps)							
Clean and press (12-15 reps)							
Russian twist (8 reps)							
Double push lift off (12-15 reps)							
RDL (15 reps)							
Windmills (12 reps)							

Wednesday workout	Complete as many rounds as you can in 20 minutes						
	Weight	Round 1	Round 2	Round 3	Round 4	Round 5	Round 6
Double kettlebell swing (15 reps)							
Clean and press (12-15 reps)							
Russian twist (8 reps)							
Double push lift off (12-15 reps)							
RDL (15 reps)							
Windmills (12 reps)							

Friday workout	Complete as many rounds as you can in 20 minutes						
	Weight	Round 1	Round 2	Round 3	Round 4	Round 5	Round 6
Double kettlebell swing (15 reps)							
Clean and press (12-15 reps)							
Russian twist (8 reps)							
Double push lift off (12-15 reps)							
RDL (15 reps)							
Windmills (12 reps)							

DIET & NUTRITION

Exercise is only half of the picture, to get the most out of your training, learn to eat correctly

On the following pages you will find key nutrition and diet information to assist you in your fat loss and fitness goals



DIET & NUTRITION PROTEIN

Protein is absolutely essential for tissue growth and repair, because they contain essential amino acids which are building blocks for all cells in your body. When you train with kettlebells, you will go through a cycle of cell damage and then regrowth which will build your muscles up stronger. For this process it's important for you to consume high protein foods to facilitate recovery and growth.

Protein is a nitrogen containing compound and it can be found in all animals and many vegetables. The nitrogen is packed inside amino acids and because of that the amino acids are essential for growth and repair. There are a total of 20 amino acids in total, 9 of which are essential in dietary requirements, the remain 11 can be produced by the body itself.

The essential amino acids required from diet

Note: There are technically 9 amino acids, but one of them (histidine) are only required for children. For our use we will consider the following 8 as essential amino acids.

Isoleucine Stablises and regulates blood sugar and energy levels

Leucine Prevents excessive breakdown of muscle tissue after exercise or injury

Lysine Regulates nitrogen balance

Methionine Required for make choline, and essential for building cystine and taurine

Phenylalanine Aids memory and treats depression

Threonine Required for building collagen, elastine and tooth enamel protein

Tryptophan Essential for producing serotonin and is a sleeping aid.

Valine Metabolised to produce energy

When you train you body's need for amino acids increases, and therefore you must consume high quality protein rich foods to supply your body with its need. If you fail to do so, the body will cannibalise amino acids from muscle cells, and your progress will be hampered.

Protein in every meal

The body can only process certain amount of protein in any given time, it is widely believed that the maximum is 50g, any excess is wasted, and is not stored by the body like carbohydrates or fat. Therefore you must aim to spread out your protein intake throughout the course of the day for availability and usage. It's good practice to spread out your daily protein requirement throughout the day, aim to consume 30-50g [depending on requirements] of protein in every meal.

Are all protein foods the same?

All proteins have the essential amino acids, but meat tends to have a much higher concentration and more proportionate ratios of essential amino acids. The best protein sources are obviously those that have a high concentration and are more "balanced" such as beef, chicken, tuna and eggs. If your dietary intake has missing or very reduced levels of certain essential amino acids it can reduce or stop protein synthesis.

Animal proteins tend to have higher concentrations of essential amino acids and are more bio available [more on that later] than vegetable based protein sources. vegetables have much lower concentrations of proteins and some lack essential amino acids, and must be combined with other vegetables to get a full range of essential amino acids.

Bio availibility of protein foods

Proteins from foods need to be processed before they can be used by the body, this is rarely considered by trainees as they tend to simply go by nutrition information provided on the food label, which does detail digestion issues.

This is important when assessing protein intake and planning meals, if a food item is difficult to digest then the protein may be excreted out, and will not be synthesized by the body.

You can look up the Protein Digestibility Correct Amino Acid Score (PDCAAS), which takes into account the digestibility of amino acids in food. Here's a table below to illustrate, the highest digestibility is 1, meaning all amino acids are digested.

PDCAA score of a small selection of food items

Cottage cheese (Casein)	1	Soybeans	0.91
Egg white	1	Chickpeas	0.78
Soy protein	1	Fruits	0.76
Whey (milk protein)	1	Vegetables	0.73
Chicken	1	Cereals	0.59
Beef	0.92	Whole wheat	0.42

Note: beef has a lower PDCAA due to toughness of the meat, PDCAA can be increased by eating ground beef.

Taking PDCAA into consideration it's even more apparent that vegetable protein sources are less than ideal, with the exception of soy protein that is. But soy has its own issues in that it contain high amounts of isoflavones which are weak estrogens, which can affect hormone balance levels in men.

Recommended protein sources

Whey protein

Whey protein is one of the most cheapest and biologically active protein sources, which means it can easily be used by the body. Whey protein should be used frequently to supplement protein in diet, but should NOT be used as a substitute for a well balanced diet. Whey concentrate has 80% protein and 20% carbohydrates, whey isolate goes through an additional filtration process and typically has 99% proteins

Cottage cheese

Cottage cheese has a high protein content from milk (casein), studies have shown that it improves nitrogen retention as well which prevents muscle loss.

Eggs

Egg whites have high protein content and bio availability and should be used extensively in your diet. Egg yolk also contains good proteins but has high fat content as well. Aim to take I egg yolk for every two egg whites.

Beef, chicken, fish

You can never have enough beef, chicken or fish in your diet, while it may be tempting to opt for the cheaper protein sources mentioned above, there is merit in animal protein sources. Beef contains creatine which will improve muscle growth and performance, and fish has essential omega 3 and 6 and other essential minerals.

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Fitness and nutrition isn't just about the macro [fat, carbohydrate and protein] but also the micro-nutrients which you get from a varied diet consisting of numerous protein sources

Notable mentions for other good protein sources are lean pork, milk and soy protein concentrate

Optimal protein intake

For building large amounts of muscle [or bulking up] you must consume around 1 gram of protein per pound of bodyweight, however with kettlebell training the focus isn't building muscle per se, but rather endurance and fitness and fat loss. Kettlebell trainees should aim to consume 0.8 grams of protein per pound of bodyweight. So if you weigh 150lbs your desired protein intake would be 120g per day.

Even that seems like a lot, but bear in mind your demand for essential amino acids increases tremendously with training, and it will increase your appetite and protein requirements as well.

So why is protein so important for kettlebell training?

Regardless of your goal, whether it be sport endurance or fat loss, protein is essential in your diet when undertaking kettlebell training. without it your performance will suffer, you will not be able to beat your previous lifts, and may even decline in performance.

Protein isn't just for bodybuilders, even a sedentary person requires protein just for maintenance of general body functions and cell repair of skin, muscles, hair, eyes, nails etc. It may seem like the protein requirement is excessive compared to official guidelines and commonly dispersed knowledge on lifestyle magazines, but these guidelines are almost always aimed at sedentary people. When you lift weights your protein requirement increases dramatically.

In addition to this, a bare minimum level of protein is required for anabolic states for muscle tissue growth, without it no growth occurs, the body can change fat and carbohydrates interchangeably, but it cannot generate the essential amino acids found in protein so it must be supplied in your diet. As far as protein is concerned it's always better to have a little bit more than a little bit less.

Risk of excessive protein consumption

Protein consumption should be regulated by spreading out the intake across all meals throughout the day, protein digestion releases a by product called uric acid which is toxic for the body. The kidneys have to work hard to process the uric acid and at excessive amounts can cause strain or damage to it.

The kidneys and liver work together to stabilise the build up of uric acid by converting it to urea and ammonia, which is flushed out of your system through urinating. There is a maximum capacity of uric acid the kidneys can deal with at any given time, and build up of uric acid makes the kidneys inefficient to deal with other toxins, so it's important to not overload the kidney and liver and to stay hydrated to allow the kidneys to be flushed out.

Water also has the added benefit of diluting the uric acid inside the body which makes it less harmful.

It should be obvious but if you suffer from or have a history of kidney or liver problems, you should avoid a high protein diet, as a high protein diet will be a challenge for these organs.

Good supplements to take to deal with the build up of uric acid is Pantothenic acid which is a B vitamin that is required for the conversion of uric acid into urea and ammonia.

Alkalising the body through diet can help deal with acid build up, though this subject is beyond the scope of this book. Some alkali foods are celery, cucumber, pears, potato, olive oil etc. If you have trouble digesting large amounts of vegetables, you can juice them.

Final note on clean protein sources.

Supermarket shelves are full of cheap processed meats that are not clean cuts of meat from an animal, but are bits and pieces of leftover skin and meat plied together with fat and starch. You should avoid eating them as much of it is skin and fat which does not provide you with a reliable serving of essential amino acids, and makes calorie control difficult.

You should aim to consume meat from completely clean cuts of meat, fatty cuts are fine in moderation. But stay away from processed fast food and reconstituted meat.

DIET & NUTRITION CARBOHYDRATES

Carbohydrates are the bodies preferred source of energy, as it is the first food type which is burned for energy in the body. Barring the exception of milk all carbohydrates come from plants.

Nutritionists differentiate carbohydrates into two subcategories, simple carbs and complex carbs. Simple carbs are easily digestible sugars such as monosaccharide and disaccharide, complex carbs are starches and fibre, both of these are known as polysaccharides.

The division is created to differentiate the speed of which they are processed by the body, simple carbs are quickly absorbed by the body, complex carbs take a lot longer for the body to digest as they need to be broken down further.

What happens to carbohydrates in our body

Both simple carbs and complex carbs are broken down into simple sugar in the form of glucose to be used by the body, when glucose is taken or produced by the body it enters the bloodstream and causes the pancreas to produce insulin which is required to feed glucose into the muscles and force excess into the liver. The job of insulin is to regulate the amount of glucose in the bloodstream, if there is too much glucose in the blood it can result in blindness, if there is a lack of glucose in the blood it can lead to hypoglycaemia which begins by causing the person to feel faint and pass out.

Simple carbs are processed far quick by the body and converted into glucose far quicker, this can cause blood sugar spikes and the pancreas needs to quickly produced high amounts of insulin quickly to push the glucose into the muscles and any remaining into the liver, if there's any glucose still left after filling the liver then the surplus is converted to fat in the liver to make room by a process called de novo lipognesis (DNL), fat can be stored long term by the body in the adipose tissue which is predominantly in the butt, thighs, waist and back. The distribution of adipose tissue differs between men and women greatly and slightly differently between different people of the same sex.

The blood sugar spike can be limited greatly by eradicating all simple sugars from your diet. Because complex carbs take longer for the body to digest, the glucose is released slower over a longer period of time which allows the body to cope a lot better. The end effect is that glucose dripped into the blood-stream in a more manageable way, so there is less surplus which means less glucose is converted to fat and stored in your adipose tissue.

Insulin response in relation to exercise.

We've established that insulin is required to delivery glucose into the muscles, this is particularly important after working out. Usually during a workout the muscles will start to deplete their energy reserves, and after workout need to be replenished, this is the perfect time to take high sugar carbohydrate drinks as it creates an insulin response to allow the muscles to be fed. In addition to this insulin is require for protein synthesis. So it's an important factor when working out.

The oversimplification of "simple carbs" and "complex carbs"

Now for the sake of simplicity it is commonly taught that simple carbs converts to glucose a lot quicker, and a lot slower for complex carbs. While this is generally true, there are many that do not fit the norm. So it's important to study different carbohydrates on a case by case basis. Potatoes for instance can cause a rapid insulin response, far quicker than sucrose.

You can look at the speed in which carbohydrates convert to sugar in the Glycemic Index (GI) table below. The greater the number, the quicker it can convert to glucose by the body and cause the insulin spike

Some of the common carbohydrates with the associated GI score are listed below, the GI rating of a carbohydrate is simple the rate at which it converts into glucose by the body, glucose is the raw energy source and is rated IOO. The test is done by feeding test subjects with a given carb and testing to see how much glucose is present in the blood stream subsequently afterwards.

Broccoli	10	Muesli	43	Corn, fresh	60
Lettuce	10	Sweet potato	44	Figs, dried	61
Mushrooms	10	Capellini	45	Raisan Bran	61
Onions	10	Grapes	46	Apricots, canned	64
Red Peppers	10	Linguine	46	Jams	65
Fructose	19	Bran Buds	47	Pineapple, fresh	66
Cherries	22	Green peas	48	Pancakes	67
Grapefruit	25	Marmalade	48	Puffed wheat	67
Prunes	29	Carrots	49	Sucrose	68
Apricots, dried	30	Mango	51	Grapenuts	71
Apple	38	Bananna	52	Watermelon	72
Pear, fresh	38	Fruit Cocktail	55	Bran flakes	74
All Bran with Fiber	38	Oat Bran	55	Shredded wheat	75
Spaghetti, white	38	Honey	55	Pumpkin	75
Plum	39	Raisins	56	Waffles	76
Strawberries	40	Apricots, fresh	57	Baked potato	85
Orange, Navel	42	Kiwi	58	Corn flakes	92
Peach, fresh	42	Bran Chex	58	Glucose	100
Pear, canned	43	Rice vermicelli	58	Dates	103

As you can see complex carbs tend to have a lower GI rating than simple carbs, barring the exception of a few anomalies, fructose has a deceptively low GI rating due to the way it is processed, unlike all other carbs which are processed during digestion, fructose is sent straight to the liver to be converted into glucose, which tends to take longer than digestion. The liver turns much of fructose into fat rather than sending it into the bloodstream as glucose first, therefore fructose should be avoided at all costs.

Why is fructose treated differently than other carbs?

Glycogen is the secondary energy source in the body and can be produced by the liver and the muscles. In addition to this liver actually uses glycogen as an energy source by itself. Glycogen can be produced by converting it from glucose, however it is four times easier for the liver to create glycogen from fructose than glucose. This is why fructose is sent directly to the liver, if the liver's glycogen stores are low it will replenish its stores from fructose, if not then it will be converted to fat, hardly any will be fed to the muscles.

Because of this fructose is probably the worst carbohydrate you can consume, because the overwhelming majority of fructose get turned straight into fat. It is commonly found in soft drinks and fruit juices that use high fructose corn syrup as the main sweetener. It is also found in table sugar (sucrose) which is part glucose part fructose.

Carbs sound awful, why do we bother with them?

Carbohydrates are fine in moderation as long as you avoid fructose in your diet and try to stick away from the high GI carbs as much as possible [glucose based simple carbs are fine post workout].

If you're on a fat loss diet you should only consume carbohydrates lower than GI score of 55. Also limit your carbohydrates to the start of your day.

Fibre in carbohydrates

Fibre isn't an energy source unlike Protein, carbohydrate or fat, and therefore is under looked by many people, but make no mistake it is absolutely crucial for your well being. Fibre is usually derived from the outer layer of fruits and vegetables, although most fibres aren't digestible by the human body, our bodies still need any fibre it can get. Fibre has numerous role in your health

- The help with transit times of your bowel movements, it provides the lubrication needed to excrete
 waste and prevent constipation.
- Helps keep your intestines clean and helps prevent potential problems such as haemorrhoids and colon cancer
- When consumed with high GI foods, fibre helps reduce the release of glucose into the bloodstream.

Fibre is essential for the routine digestive functions of the body, a good source of fibre are all-bran cereals, wholemeal pasta, baked beans, avocado, sweet potato.

DIET & NUTRITION FAT

Fat is the most misunderstood food type, just like protein it is an essential macronutrient. Fat is used as a long term energy source, and it is the only form in which calories can be stored in the body for later use. Fat is the most calorie dense nutrient of all, one gram of fat contains 9 calories, which is different to protein and carbohydrate which contain 4 calories per gram. Fat is a key structural component for all cell membranes and is key for the absorption of vitamins A, D, E and K.

Saturated fats

Saturated fats are considered unhealthy and bad because they can raise blood cholesterol levels, which can lead to heart disease. Saturated fats are found in animal fat, lard, palm oil and other cheap sources, the tendency of saturated fat is to go straight into storage, and offers no other benefit other than energy storage.

Unsaturated fats

These are preferred fat sources and are comprised of two type

- Monounsaturated fats
 - known to lower bad cholesteroal (LDL) and increase good cholesterol (HDL), they are present in red meat, milk, olive oil and high fat fruits such as avocados.
- Polyunsaturated fats
 - Much like monounsaturated fats, polyunsaturated fats help reduce bad cholesterol, and in addition to this have other positive benefits, polyunsaturated help reduce cortisol [stress hormone], hinder fat storage and increase metabolism [promotes calorie burn], they are found in essential fatty acids like flaxseed oil, fish oil, cod liver oil sunflower oil and some nuts.

Trans fats

Trans fats need to be avoided at all costs, they are manmade fats created using a chemical process called hydrogenation. The process is used to turn oils into fat to be used in fast food to prevent the liquid oil from turning rancid. Trans fats are solid in room temperature are usually found in baked goods and can sometimes be used in fast food restaurants for frying.

Trans fat can also be created by frying unsaturated fats, which changes it's molecular shape, this makes trans fats unable to fit properly into cell membranes, because of the unnatural shape it can cause cell membranes to deform. This can increase the risk of cancer.

Essential Fatty Acids

The essential fatty acids are required for thousands of day to day bodily functions, they're called essential fatty acids because your body is not able to produce them internally and need to be consumed in your diet. They are required for cell maintenance and production as well as hormone production. In addition to this they are not stored in your body like saturated fat.

There are two types of essential fatty acids (EFAs), Alpha linolenic acid (ALA) and Linoleic acid (LA), they can be found in these following food items.

- ALA is found in fish oil, cod liver oil and many cold water fish and is converted to omega-3 in the body
- LA is found in Sesame oil, corn oil, safflower oil and soybean oil and is converted to omega-6 in the body.
- Flaxseed oil and UDO's choice oil blend offer a combination of both of these EFAs

EFAs are not stored in the body like saturated fats, so you can consume as much of it as you like, it's not established exactly what a person's nutritional intake of EFAs should be, suffice to say studies suggest the more the better. For balance you can opt for flaxseed oil and Udo's choice oil, however Linoic acid is more readily available in your diet than Alpha-Linolenic acid therefore you should put a little bit more emphasis on omega-3 sources.

The bias of Linoleic over Alpha-Linolenic, is down to two things, Alpha Linolenic goes rancid far more easily and is also more expensive, Linoleic is easy to produce as it comes from vegetable sources, Alpha-Linolenic tends to come from fish which is more expensive.

Why omega-3 is so crucial

Omega 3 is ususally derived from cold water fish like mackeral, salmon, tuna and sardines. It can also be found in cod liver oil. It is a fatty acid containg two oils knowns as EPA (eicosapentaenoic acid) and DHA (docosahexaenoic acid).

The benefits of DHA and EPA are endless, just a few of the benefits are increases in metabolism, lower heart disease risk, increase testosterone, prevent muscle breakdown, reduce cortisol [stress hormone] help increase good cholesterol [HDL] and required for hormone production. They also keep the blood thin and reduce heart attack risk.

What's the best way to get omega-3 (EPA and DHA) from your diet?

You should aim to get 2:1 DHA to EPA in your diet, ideally your diet should contain a total of at least 500mg of DHA and EPA as a bare minimum. It's important to note that most products, including supplements will tend to have higher EPA as it tends to be cheaper.

This is especially the case with flaxseed oil, you should aim to get your omega 3 from fish oil capsules.

[table of fats due soon]

Note on EFAs

- EFAs are unsuitable for frying or heating at high temperatures, they turn into harmful fats called transfats where they lose all their benefits
- Cod liver oil is not suitable for pregnant women, you should seek advice from your midwife or doctor before changing your diet.
- EFA oils are difficult to store, and go off easily, you should keep them in a dark place and ideally refrigerated. You should not store them for long periods of time and consume them immediately.

DIET & NUTRITION WATER

Roughly 70% of the human body is made out of water and for the body to keep on functioning properly it needs an adequate supply of water coming in throughout the day. This is patciuarly the case when you're on a weight loss diet or a fitness programme because the bodies need for water increases in order to flush out poisonous toxins, to and carry essential maintenance work in the body.

You should drink water throughout the day, a lot of people go without liquids until they are thirsty, by the time thirst has set in usually your body is past dehydration and has already begun to slow down metabolism and maintenance work.

It has not been firmly established exactly how much water the human body requires, but a rough rule is to aim for 8 glasses of water, and if you are training intensely you should aim for 1.5x more than during your workout days.

Protein synthesis creates a lot of waste by products inside the body which needs to be diluted in water in order for the body to process it, in addition to this the kidneys need water in order to process all the toxins. Without sufficient water the kidneys will not be able to function effectively and may also help create kidney stones.

Why plenty of water is essential for fat loss

If your goal is to lose fat, then there's even more reason for you to drink plenty of water, water can help you lose fat in the following ways

Reduces hunger pangs

Water gives you a more "full" feeling, and can stave of hunger pangs and a glass of water before bed can help eliminate midnight snacking, provided your bladder can hold onto the water that is.

Increases metabolism

The metabolism is the speed at which your body burns calories, and consequently fat levels in your body, insufficient water in your body will cause your body to go into survival mode and slow down your metabolism

Liver function

The liver is responsible for turning your stored body fat into usable energy, an increase of water in your diet will help the liver work more efficiently and thus lose fat.