

**SUZANNE MARTIN** 



# 15-MINUTE BETTER BACK

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# About this eBook

Due to the complex integration of images and text, this DK eBook has been formatted to retain the design of the print edition.

As a result, all elements are fixed in place, but can easily be enlarged by using the pinch-to-zoom function.

If you are previewing this eBook on a mobile phone, portrait mode is recommended.

If previewing on a tablet or larger display, landscape mode will allow you to see facing pages at the same time (two page view).



## contents

Foreword 6

How to Use this Book 8

Developing the Back 18

Summary 34

FAQs 36

Revitalizing the Back 38

Summary 54

FAQs 56

Energizing the Back 58

Summary 74

FAQs 76

Soothing the Back 78

Summary 94

FAQs 96

Moving on from Here 98

Useful Resources 108

Index 110

Acknowledgments 112



# **AUTHOR FOREWORD**



Congratulations on buying this book and embarking on the road to your better back! I'm pleased to share with you the exercises, knowledge and techniques that have helped me, as well as countless others, in my classes, courses and private practice for over 25 years.

All of us need a better back. My own back has a special story. I've had minor scoliosis throughout my whole active career as a dancer, dance and exercise instructor, Pilates expert and physical therapist. Probably you need help, too, since studies show that nearly 80 per cent of all people will suffer from some type of back problem in their lifetime. This book contains tips and exercises to help you avoid and, if necessary, alleviate most common back episodes.

Life is imperfect; nature is imperfect. Look at the leaves on a tree. See how they are each shaped slightly differently and how each has countless imperfections in texture and shape. Our bodies reflect nature's imperfections, which means that we all have our own set of physical nuances, and that includes the back. Daily wear and tear makes it essential for all of us to acquire a better back. Lifting children and shopping, gardening, running, climbing – even sitting too long – can

all lead to a sore back. Learning proper posture and the preventative exercises in this book can contribute, on a daily basis, to giving us an improved quality of life, which, now that we are all living longer, is more important than ever.

Exercising and learning new techniques and concepts increases body awareness so you get greater control over your physicality, but there are other benefits, too. Your resiliency against life's knocks and falls will improve. Strengthening your neck gives confidence to your voice. Nurturing your upper and mid-back allows your heart to risk the perils of love. Reinforcing your lower back will help you stay firm in your resolve. These are the mind-body connections that you often hear people speak of. If you feel confident and resilient in your body, your mind will reflect those qualities as well. *15-Minute Better Back* is a powerful gateway to all of this. Enjoy.

Sugane Martin

# **HOW TO USE THIS BOOK**

This book promises a better back! First take time to study the exercises in detail and familiarize yourself with what you will need to do. Each exercise is valid by itself but, when you follow the correct sequence, the magic happens. Let me help you see the forest as well as the trees.

Each of my programmes focuses on a different way of working the back. The exercises each have a beginning position, shown in the inset, and two successive parts. Annotations give you tips on proper positioning and white dotted-line 'feel-it-here' patches home in on specific body areas. Not all pictures have these since a number of exercises are concerned with the whole body.

Some exercises are more difficult than others. The programmes build to a crescendo of intensity, then gently back away. The first exercises in each programme are warm-ups and mobility exercises. The next are often stretches and are followed by abdominal exercises. Then come the harder back and full-body exercises, and finally the sequence ends on a softer note. Even beginners should be able to do most of the exercises. For tips on how often to perform the programmes, how to modify the exercises if needed, and how to combine them for a longer workout, see pp100–101.

The video available at www.dk.com/15-minutebetter-back is designed to be used with the book if you want to reinforce the exercises. As you watch the video, page references to the book flash up on screen. Refer to these for more detailed instruction.

### THE SUMMARIES

The summaries at the end of each sequence help you see each Better Back workout programme in full view. Use them, alongside the video if you wish, as a quick reference to trim your exercise time down to a succinct 15 minutes.

### **SAFETY ISSUES**

Be sure to get clearance from your doctor before you begin any exercise programme. The advice and exercises here are not intended to be a substitute for individual medical help. Your medical specialist may recommend preparatory exercises especially tailored to your needs.





**Step-by-step pages** The inset photograph on the upper left gives you the starting position for the exercise. The next two photographs show the steps required to complete it.



the summary shows all the main steps of the programme

**Summary** These pages give you a comprehensive demonstration of the entire programme – an easy reference to make your workout quick and simple.

## THE PARTS OF THE BACK

Take a moment at this point to review the four different parts of the back.

Each has a different role to play in enabling us to perform our everyday tasks.

Getting a clear idea of the four main sections of your back will help you to make your exercises more effective. Look in the mirror and follow along.

The 'back' is technically the 'spine' and is made up of several parts. Looking from the side, it makes a long S-curve. The spine has four main curves: the cervical, the thoracic, the lumbar and the fused sacral/coccyx. The curves are not present at birth and only begin to develop when an infant achieves vertical standing and at toddler stage when he or she begins to walk. The downward press of gravity shapes the spine and gives each curve an all-important role in maintaining the health of the back and producing bipedal stance.

### THE CERVICAL SPINE

The cervical spine or upper neck can be felt at your hairline, just at the base of the skull. It is responsible for tipping the chin upwards and downwards. The upper part of the cervical spine also contains the muscles responsible for eye motions. If you keep your fingertips at the base and dart your eyes back and forth, you'll detect the motions of these fine muscles.

The lower cervical spine is convex-shaped. You can usually feel the prominent southernmost vertebra as it meets the shoulders. The neck has the greatest amount of range of motion of the spine. It can create a telescoping effect and can swivel to almost look completely behind you.

### THE THORACIC SPINE

This has a concave shape and is connected with the rib cage. You can trace the prominent spinous processes, the visible bumps of the

### THE FOUR MAIN PARTS OF THE BACK

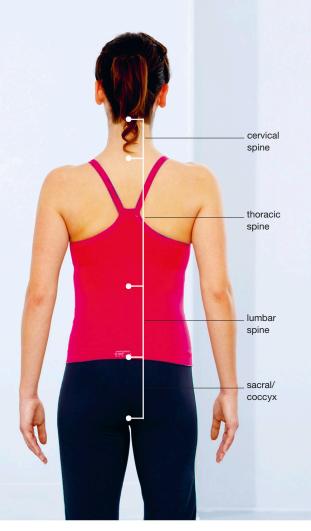
- The cervical spine, or 'neck', has seven vertebrae and extends from the base of the skull to the shoulders.
- The thoracic spine, comprising the upper and mid-back, has 12 vertebrae and extends from the shoulders to the waist.
- The lumbar spine, or 'lower back', has five vertebrae. This vulnerable section forms the waist and has no bony support.
- The sacral section contains the four fused vertebrae of the sacrum with the vestigial tail, the coccyx, at its end.

spine, by running your thumbs from your shoulders down to the top of your waist. It is chronically stiff since it's girdled by the rib cage, so developing mobility in the thoracic spine requires patience.

### THE LUMBAR SPINE

Put your hands around your waist to find the lumbar spine. This part of the spine is particularly vulnerable because it's balancing the weight of the trunk against the unwieldy weighty legs. What's special about the lumbar spine is its springboard effect on the spine. Its convex shape allows the impact against the ground to dissipate as you step.

**The back is not a single entity** but is actually made up of four main sections. The exercises in 15-Minute Better Back will help you strengthen each of them.



The curves make an S-shape that gives the back resilience. Preserving those curves is all-important if vou want a pain-free back! conve (cervical spine) concave (thoracic spine) convex (lumbar spine) concave (sacral/coccyx)

### THE SACRUM

Finally, place your hands on your hip bones, fingers facing forwards, and your thumbs will end up on top of the fused vertebrae of the sacrum. Very large forces converge here – at the sacroiliac joints – the place where the lumbar spine and the sacrum meet. That means that this area is extremely vulnerable and requires careful positioning and handling if you are to avoid injury. At the bottom of this fusion lies the coccyx, or tailbone.

### THE DISCS

These are pieces of cartilage that lie between the vertebrae. Think of them as being like doughnuts, with a soft centre and a hard exterior. They provide cushioning in between the vertebrae but, even more importantly, they give range to the spine so it can bend and twist as required. Protecting the spine means protecting these all-important discs. And that is achieved by strengthening the back and by learning posture control.

# **POSTURE AND THE BACK**

Posture is important both to the strength of your back and to how you appear. It can make you look dumpy, tired and old, or together, confident and lithe. Fortunately, posture is not all down to your genetic inheritance. There is much you can do to improve it and prevent gravity from winning out.

### THE SLUMP

This posture pushes the head forwards out of line, rounds the shoulders and leads to a slouched pelvis. Besides being aesthetically unappealing, it places enormous strain on the discs.

### THE SWAY BACK

Catwalk models perform the sway to make themselves appear 'cool'. The sway-back posture makes the shoulders lean and compresses the lower spine while reversing the thoracic area. In a nutshell – stand up straight!

### **HYPERLORDOSIS**

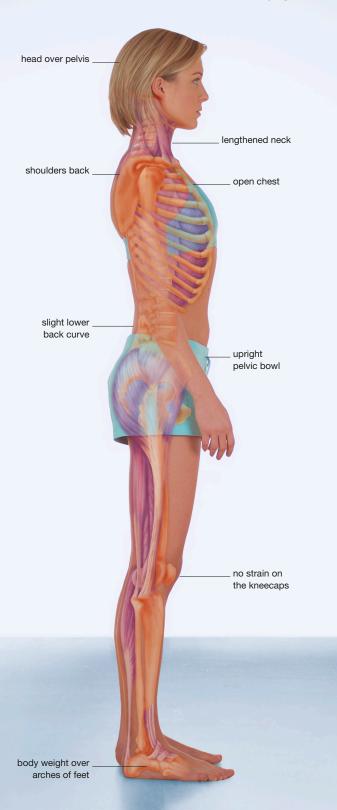
This is an exaggerated curve of the lumbar spine. It weakens the springboard effect provided by the lower back to the rest of the spine. It also shortens the stabilizing muscles of the pelvis. It's not only pregnant women and those with apple-body types who fall into this category. Athletic people tend to get tight hips that can throw them into this posture.

**Below left to right** The slump, the sway back and hyperlordosis are three typical bad postures. Each will cause problems for the body sooner or later.



**See the difference between** bad and good posture. On the left, bad posture is sure to mean aches and pains. On the right, good posture looks healthy and is healthy.





## **PROTECTING THE BACK**

The back requires extra protection because it has so many interconnecting parts. If one part gets injured, so do all the others. There are certain moves we all perform every day that involve the back. Performing them correctly, as shown here, can go a long way towards protecting the spine.

**First position parallel** means bringing your feet straight under your pelvis. It is the healthiest position to adopt for the legs and gives the greatest support for the spine.

'Butt-ski, out-ski' is the humorous name for this bending position (below right). It is ergonomically best for the discs of the lower back, which can be severely and irreparably damaged when bending, and particularly when lifting and twisting at the same time. It's really simple; just think of bending from the hips, sticking the bottom out and using the legs to take the strain as you stand up.

**The log roll** is particularly helpful, especially for getting in and out of bed or up and down from lying on the floor. It's an excellent strategy when your back is painful and sore. It's shown on the opposite page in four simple steps.

**Below left** For first position parallel take the feet about 10cm (4in) apart, with the second toe lining up with the kneecap and with the point midway on the groin line.

**Below** When you are bending, bend at the hips and keep the back straight. For lifting, always think 'butt-ski, out-ski' (stick the bottom out) and lift with the legs.





## LOG ROLL TO GET UP SAFELY

First, while lying on your back, tighten your waist and abdomen. Next, keep your back stiff just as in the 'butt-ski, out-ski' position (see opposite) and brace your bent legs.

Roll onto your side as a unit with your shoulders and hips; don't twist at your waist. Keep your legs together. When getting out of bed, let youwr feet go over the side.





Next, use your arms, not your back, to push yourself up to sitting. When getting out of bed, let your feet dangle over the edge as soon as possible.

Sit tall, lift your breastbone and bring your head over your pelvis. Press down on your sitting bones and straighten up through your spine. Feel as if your spine is being sucked up through a straw towards your head.





## **IMAGERY AND CUES**

I like to use imagery and cues when I teach. They make all the difference to how you execute the movements and so will help you gain maximum benefit from the exercises. Here are some of the images demystified for you. Get to know them to bring more quality and greater detail to your movements.

The imagery I use is for you to hold in your mind when you are making a movement, just as an actor imagines and acts out a role during a performance. It is the same when someone is exercising. The phrases, or cues, guide the exerciser to know exactly how and when to execute the movement. You will quickly become familiar with the imagery and cues and you'll find that they promote the concentration and complexity needed to make your exercise more precise and so most effective.

### **FOLLOW THE CUES**

**Make smile lines** These are two arc shapes that can be seen at the very tops of the legs when you

tighten the hips and the backs of the thighs. They mark the separation of the muscles of the buttocks and the hamstrings.

**Go into tabletop position** is an image used to help you get your entire back, when you are on all fours, parallel to the floor. Your back should look just like the flat surface of a tabletop.

**Imagine pressing pearls into sand** is a term used to help you articulate each individual vertebra of the

**Below left** 'Smile lines' delineate the buttocks from the hamstrings. **Centre** 'Pull the navel to the spine' tells you to bring the abs in firmly. **Below right** 'Zip up the tight jeans' helps you to lift the abs.





**Above** In this exercise, one of the keys to achieving a good pose is to feel the navel engaging to the spine – in other words, pulling the abdominal muscles firmly inwards.

spine separately. When you are lying on your back, after lifting your pelvis off the floor, you lower the spine sequentially, one vertebra at a time, imagining as you do so that each vertebra is pressing a pearl, or bead, into soft sand beneath your body.

**Take the head over the pelvis** helps to ensure correct posture by eliminating slumping and a forward head.

Feel imaginary hands creating a sandwiching effect helps you to coordinate abdominal tension with back tension to give a stiffer, straighter trunk. Imagine swimming-pool water is used when your abdomen is facing the floor to make you feel as if water is pressing upwards against your abdomen. It helps you to lift the contents of your abdomen. Lift the pelvis means to engage the muscles that stop the flow of urine and that stop you from breaking wind. Gently feel these muscles pull up

towards your head, just as you would lift the arches of your feet to stop your ankles from wobbling. **Funnel the ribs** helps you achieve a better upperbody crunch. First you 'deflate' the breastbone, meaning that you compress it towards the ground.

Then, as you start to curl your shoulders off the floor, you literally pull your ribs towards your pelvis, instead of just hinging at the waist.

**Pull the navel to the spine** means to pull the abdominals strongly inwards.

**Zip up the tight jeans** means to lift the abdominals upwards from the pubic bone towards the navel. It is the movement you need to zip up tight jeans.

Go into puppy-dog position means lying on your back with your legs and arms bent and off the floor. This allows you to engage your core muscles fully. Imagine a dog's tail between the legs gives precision when you are doing pelvic tilts lying on your back. The image helps you curl your pelvis into a rounded shape as you imagine the connection between the fused vertebrae of your sacrum and the coccyx or very end of your spine.

# 15 MINUTE





LEARN TO MAKE YOUR REPETITIONS
COUNT. STRIVE TO FEEL WHAT THE BODY
IS DOING. FIND MORE IN EACH EXERCISE.



# **DEVELOPING THE BACK**

Developing the back means making your back grow stronger with each exercise. Your mantra is to concentrate on making every repetition count. As you exercise, focus on the strength and beauty of your back. It is just as if you had planted a tree and were watching the trunk becoming stronger.

Because our bodies are highly efficient, they take the path of least resistance. Making them work just that little bit harder can be difficult and requires discipline. This programme sets the tone for the work that is to come. You learn to concentrate on the details so your body is encouraged to do more. Lengthen your body just a little bit more, bend even more deeply into your legs, stretch your arms just a fraction higher. Perform each exercise and then next time go just a bit further with it. Be mindful that you can always do better. Stopping because you are not good enough is not an option. If you were perfect before you started any exercise, how would you derive satisfaction from your efforts? Fifty per cent of success is simply showing up. The other 50 per cent is working on and embellishing each exercise you do.

### THE EXERCISES

Carry the feeling of elongating your body in the Body Yawn into the upright stance of the Knee Circles. Increase that feeling of length in the Side Stretch. The Squat Stretch may seem intimidating but it is excellent for gaining a sense of separating your trunk from your legs so that you can feel the length of your entire back. Modify the squat by not going too deeply. If your neck becomes too tight in the Toe Touches, keep your head down. Make yourself work in the Side Bends by not collapsing as you bend to the side, and maintain the tension top to bottom to keep the Overhead Squeeze intense. Plank exercises are always the most difficult. If you

### TIPS FOR DEVELOPING THE BACK

- Make your repetitions count by paying attention to details throughout each exercise and by maintaining that attention.
- Register which body parts are moving, and strive to feel the motion.
- Don't let the body take the path of least resistance. Lose yourself in the details and try to find more in each exercise.
- Use modifications (see below), as you exercise: then, every time you repeat, you'll be pleasantly surprised to see that you are able to do a bit more.

need a place to begin, modify the Plank Push-up by lowering your knees to the floor for the duration of the exercise. Soon you'll notice that your shoulders will be able to bear more weight. Go further with the exercises you feel most comfortable with, but remember that it's normal to feel awkward with unfamiliar moves or to have mild soreness after the first try. Soon you'll feel as if you were made to exercise.

**Developing the back** takes time, patience and discipline. Work diligently at the details and you will gradually manage to perform every exercise a little better than before.



## LIMBERING UPPER ROLLS



Hold your waist firm. Fold your elbows and bring your hands to your shoulders. Make full, yet comfortable circles with your elbows about 5 times. Then reverse the direction for 5 more circles.



## **ELONGATING BODY YAWN**



Balance on your left leg, then exhale and squeeze your right knee to your waist. Find your balance, then return to stand on both feet with your arms reaching upwards. Now balance on your right leg and squeeze your left knee to your waist. Repeat this alternation from right to left for 3 more sets.



## **STABILIZING KNEE CIRCLES**



Exhale and bow your head to your right knee and feel the stretch in your back. Release.

Stand on your right leg and repeat the balance and circles. End with a bow to your left knee.



## **LENGTHENING SIDE STRETCH 1**





## **OPPOSING SQUAT STRETCH**

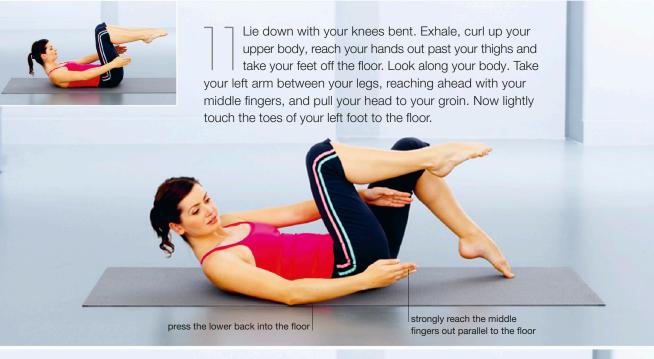


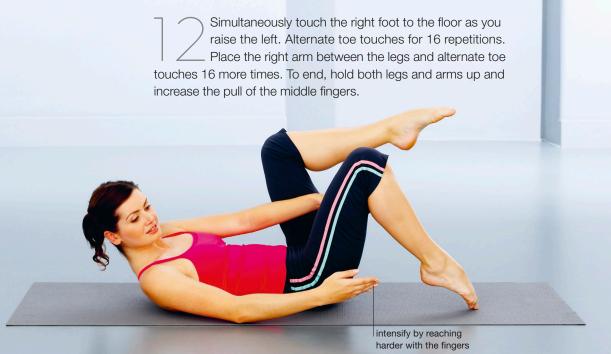
Open your legs past shoulderwidth and turn your toes slightly outwards. Hold your waist tight, and firm your bottom as you bend straight down inside your legs to place your hands on top of your knees. Lift your pelvis (see p17) and lengthen your spine. Inhale, press your right hand against your right knee, then exhale and turn your shoulders to look diagonally up and to your left. Breathe in and out 3 times. Stand up, then repeat the stretch to the other side.



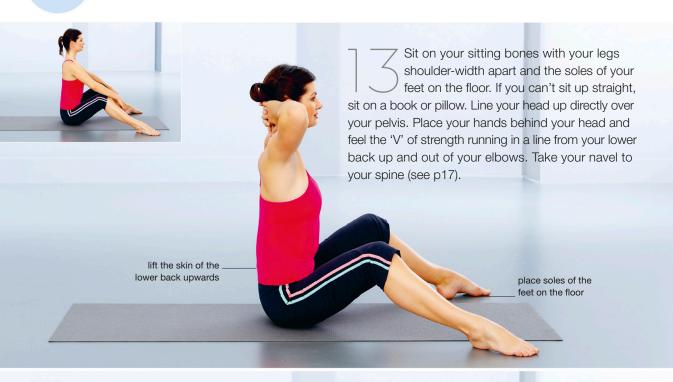


## **COORDINATING TOE TOUCHES**





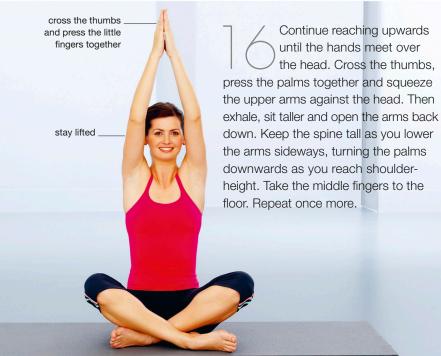
### **ARTICULATING SIDE BENDS**





# **ELO**NGATING OVERHEAD SQUEEZE





## **ACCENTUATING TEMPLE**





Inhale, then exhale as you levitate the hands and forearms off the floor, while at the same time straightening the knees so they come off the floor as well. Stay as you take a couple of breaths, then exhale and lower. Relax and then repeat the sequence.



## STABILIZING OPPOSITIONAL LIFTS





## **POWERING PLANK PUSH-UP**



Inhale, bend the elbows and lower yourself in push-up style. Make smile lines. Exhale and stay, then inhale, exhale and come back up. Feel as if your abdominals have lifted you. Break at one hip and then the other to return to all fours. Repeat once more.



## **CENTRING ANGEL WINGS**



Reach to grab your heels, curling your body up into a little ball. Then inhale, lengthen your hips and legs down onto the floor again and repeat 3 more times. Hold and intensify the last curl, tightening your abdominals, then relax to the floor.

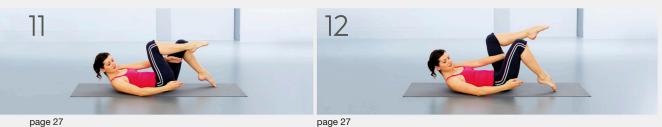


curl up into a ball

## **DEVELOPING THE BACK SUMMARY**







### > ELONGATING OVERHEAD SQUEEZE







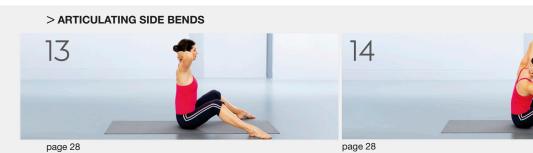
### > POWERING PLANK PUSH-UP

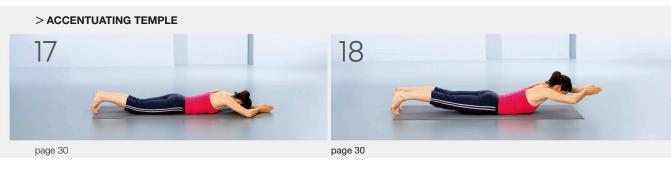


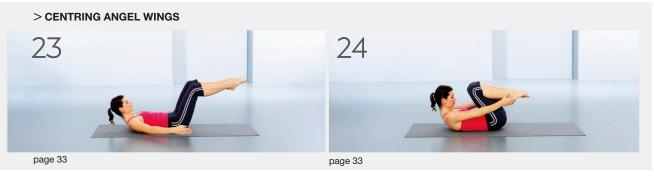
page 31 page 32 page 32











# **DEVELOPING THE BACK FAQS**

Before you can develop your back, you have to learn to feel every part of it. Here are some tips to help you delve more deeply and attain the satisfaction of a well-developed upright back. Notice how others will start to comment on your new vertical posture and may even pay you compliments about your weight! An elongated back elongates the waist.

#### WHY IS THE SQUAT STRETCH SO IMPORTANT?

It helps you to find the bottom of the trunk. Everyone can easily feel the spine around the waistline, but most people need help to feel what happens at the end of the pelvis. To develop the back, you have to find the entire length. At first the squat will seem as if it's only an inner-thigh stretch, but over time you'll be able to bend more deeply into the position and feel your buttocks moving towards the floor. The twist in the position opens the right and left sides of the back of the rib cage, helping you to open up the chronically stiff mid-back.

# ARE THE TOE TOUCHES SIMPLY ABDOMINAL EXERCISES OR IS THERE MORE TO THEM THAN THAT?

While it does appear that the Toe Touches are all about the abdominals, they are working on other important features that help develop a strong back. They strengthen the deep hip flexors and train the legs to use the back more than the dominant thighs while you're standing and walking. When the thighs become more dominant than the back, the back gets weaker and makes you lean forwards from the hips, giving you a bulky, bent-over appearance.

#### **HOW DO THE SIDE BENDS BENEFIT THE BACK?**

They work specifically on both sides of the back. The great thing about the technique used for the Side Bends in this programme is that it works not only the oblique abdominals but also the para-spinals – the long strap-like muscles that run down each side of the back. The muscles tighten as they shorten but also tighten as they lengthen on the other side as you bend. Tightening as the muscles lengthen actually strengthens the back the most.

# I FEEL MY BACK CAVING IN AS I TRY THE OPPOSITIONAL LIFTS. IS THERE ANY ADVICE YOU CAN OFFER ME?

The Oppositional Lifts may look simple, but they require special attention if you are to line up the back correctly. Mind all the cues before you move out of the preparatory position, since it's very easy for the back to go into the 'old grey mare' position, where the abdomen falls towards the floor once the limbs start to move. This is a sign of core weakness. The cue to feel the swimming-pool water underneath the abdomen always helps to lift the abdominals strongly up and away from the floor. So hold your core very strongly and make sure you slowly slide the opposite hand and foot out before you perform the lifts.

# I DON'T SEE HOW THE OVERHEAD SQUEEZE IS DEVELOPING MY BACK IF I'M NOT BENDING IT. HELP!

The Overhead Squeeze is a powerful exercise for developing the very deep postural muscles of the spine. It also helps us learn what a correct upright position is. Think of the back like an accordion. When the accordion is inflated with air, it's nice and elongated; when the air goes out, it deflates and the pleats become very prominent. This image is quite similar to the vertebral bones. The arms are very heavy and are culprits in promoting slumping (deflating the accordion) in the back. Attempting to sit as tall as we can, against the weight of the arms pulling us downwards, is a very good exercise in sitting tall in general. I actually recommend you do the sit tall part, even without the arm lifts, a couple of times every day, at your computer, or in the car, for example. You'll be amazed at your improved posture!

# I FEEL MY BACK COME OFF THE FLOOR WHEN I DO THE ANGEL WINGS EXERCISE. IS THAT ALL RIGHT?

Often the back of the rib cage is very tight and people are not able to get the back of the waist and the back of the rib cage on the floor at the same time. A great goal to progress towards with this exercise would be eventually to be able to stabilize your back enough to get its entire length – the rib cage, the waist and the pelvis – against the floor. If you persist for two months, you'll probably attain your goal. Be sure to do the final step of the exercise, where you hold onto your heels, or your legs, while you pull your shoulders towards the knees. That will help you to stretch the parts of the back you need in order to lie flat with the whole back on the floor.

# 15 MINUTE

# REVITALIZING THE BACK

ACCENTUATE THE CHANGING RHYTHMS.
NOTICE YOUR BREATH. OXYGEN IS KEY.



# **REVITALIZING THE BACK**

We are all living longer lives and we all want to live in the best of health. Regularly revitalizing and renewing the cells of the body by eating well and staying mobile is key. Working on revitalizing the back is one of the cornerstones of health. It enables us to remain active for as long as possible.

Revitalizing literally means to restore life, to bring vitality. Our breath is what revitalizes us. The lungs hold a potential for an abundance of oxygen. In this series we vary breath patterns in order to manifest this abundance. This variety of patterns is accomplished by virtue of the exercises' different rhythms and cadences. Although the exercises will guide your breath, remember to use the general breath pattern of inhaling through the nose and exhaling softly out through the mouth. Don't inhale so strongly that the nostrils are forced together. Instead, be sure to keep them open and allow the air to flow towards the back of the nasal cavity, as if you were inhaling fine perfume. When you exhale, almost try to make a 'ha' sound.

#### THE EXERCISES

This revitalizing programme uses many quick repetitions to stimulate the body from different angles. The structure of the exercises forms the basis of the rhythms, which will regulate your breath as you exercise. Notice how the Arm Swing and the Leg Swing both have a waltz-like quality. The Tread in Place exercise has a marching rhythm. The Leg Circles are brisk and intense.

In the Tapping Chest exercise, you actually need to vocalize the exhalation each time. The sustained quality of the 'O' Balance requires its own soft internal flow.

This programme also includes the more difficult Prone Rocker and one of the hardest plank exercises – the Plank Balance. Both

#### TIPS FOR REVITALIZING THE BACK

- Each exercise has a natural rhythm. As you exercise, accentuate this rhythm, as if you were showing a friend how to do it.
- Notice how your breath subtly changes from exercise to exercise. Let your body go with the rhythm. Sometimes it even helps to hum along as you go.
- Inhale through the nose. Direct the air into the back of the throat. Open the lips and gently exhale through the mouth.
- Modify when needed. You can hold the Prone Rocker position still and simply hold the Plank Balance for a couple of breaths.

generate internal heat and will stoke the fire of revitalization within you. However, remember only to do as much as you are able without undue straining, or at worst, by holding your breath. If the Prone Rocker is difficult when you first try it, you can modify it by simply holding your hands and feet off the floor and eliminating the rock. For the Plank Balance, modify the exercise by remaining in a simple plank position, without lifting the foot.

Now take a deep breath and revitalize your body with these exercises. It's just like opening the window and breathing in fresh air.



## **OPENING ARM SWING**



Swing your hands back and behind your hips so they touch together. Rhythmically swing your arms up and back using this motion 7 more times.



# **BALANCING LEG SWING**





Then swing the left foot down and back.
Repeat this forwards and backwards motion easily and rhythmically 7 more times. Find your balance on the left leg and repeat, swinging the right leg.



# STIMULATING TREAD IN PLACE



## **OPENING TAPPING CHEST**



Stand tall with your feet just less than hip-width apart. Take your head back over your pelvis, pull your navel to your spine, lift your abdominals. Bring both hands to your breastbone. Gently tap your fingers on your breastbone as you exhale, saying 'ha, ha, ha' as you tap.





## **LENGTHENING SIDE STRETCH 2**



Stand with your arms above your head and your feet about hip-width apart. Anchor your left foot downwards as you grasp your left wrist with your right hand. Elongate and pull your wrist upwards.



Inhale as you lift up, to the right, as though you were leaning over a fence. Stay, exhale, lengthen. Then inhale, stay, then exhale and anchor the left foot again as you stretch back up to vertical, lengthening the waistline. Take the arms down. Repeat to the other side.

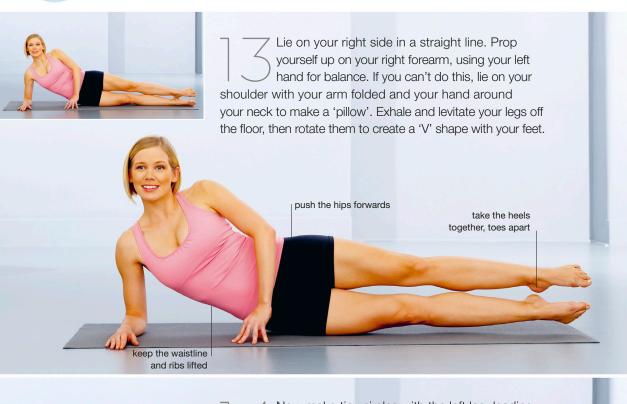


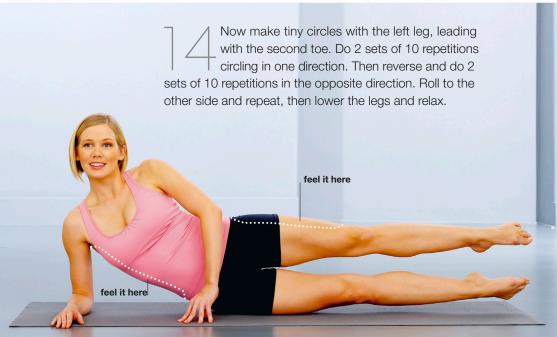
## **CENTRING STROKE THE CAT**



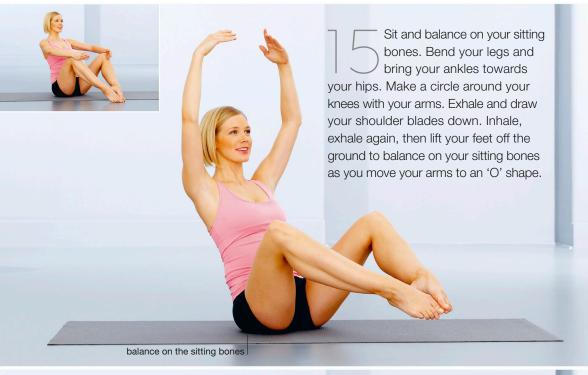


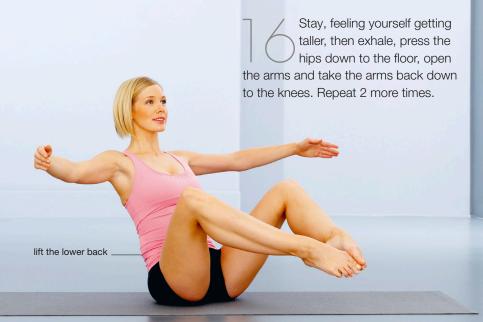
## **COORDINATING LEG CIRCLES**





## **SUSTAINING 'O' BALANCE**



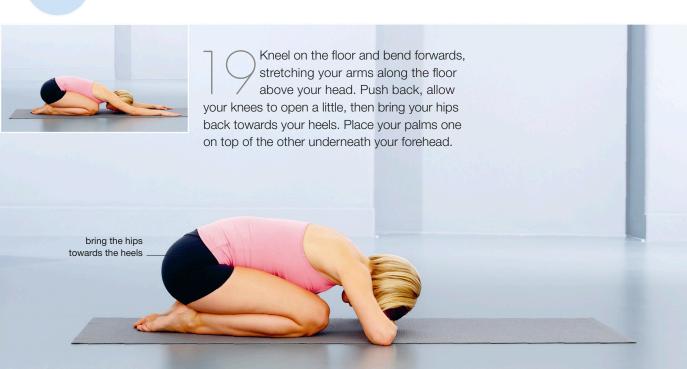


## **ACCENTUATING PRONE ROCKER**





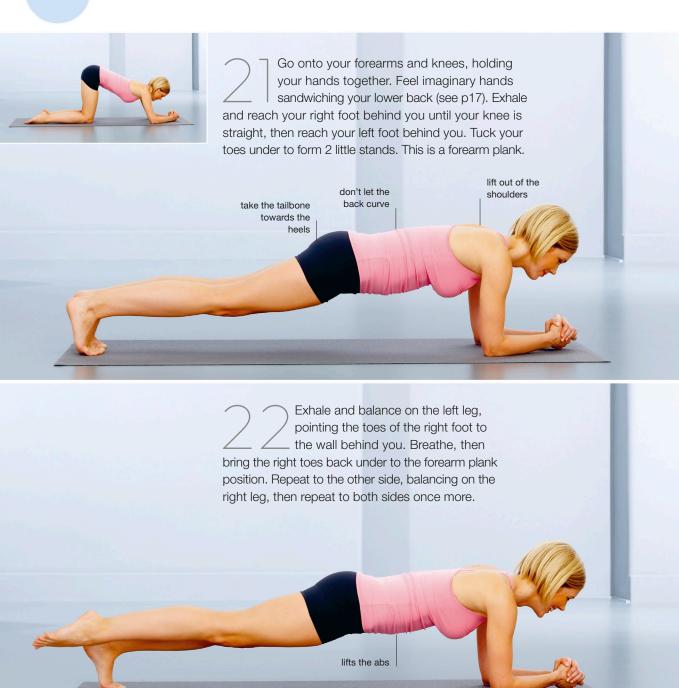
## **SOFTENING REST BREATHER**



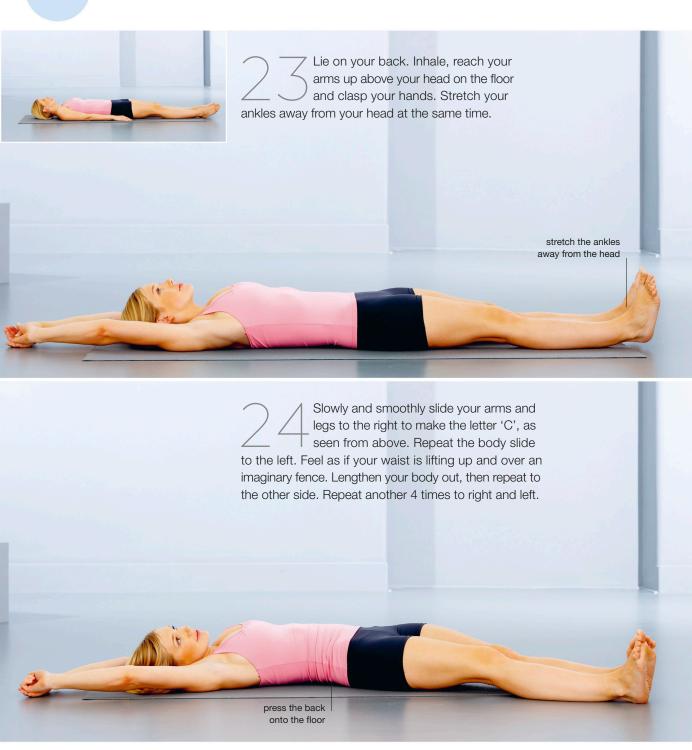
Inhale, push down on the hands, curl the head and round the back under, breathing in for 3 counts. Allow the hips to lift away from the feet a little. Bow the head and look towards the navel. Then exhale and lower the head and hips back towards the floor. Take 3 more in- and outbreaths as you perform this lifting and lowering motion.



## **POWERING PLANK BALANCE**



# **CENTRING 'C' EXERCISE**



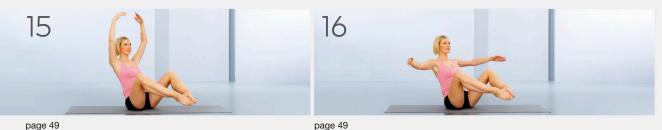
# **REVITALIZING THE BACK SUMMARY**







#### > SUSTAINING 'O' BALANCE



#### > SOFTENING REST BREATHER

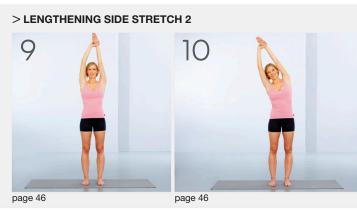


#### > POWERING PLANK BALANCE



page 52 page 52

# > OPENING TAPPING CHEST 8 page 45 page 45

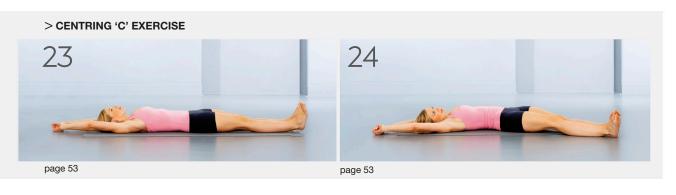












# **REVITALIZING THE BACK FAQS**

Revitalizing the Back concentrates on the breath and on oxygenating the body and the back. There are subtle modulations in our breath. These modulations may be imperceptible to others, but they can add a powerful element to your exercise. Learn to focus on them while you exercise and create a deeper, lasting effect for a stronger back!

# I DON'T SEE HOW THE ARM SWINGS AND LEG SWINGS HELP WITH MY BREATHING. CAN YOU EXPLAIN?

Simply lifting and lowering the arms forces the air in and out of the lungs and produces a ripple effect in the vertebrae of the mid- and upper back. To prove it, place your fingers on your upper back just below your neck at your shoulder line. Move the other arm up and down. You'll feel the subtle muscle activity. The pendulum-like leg swings cause muscle activity around the vertebrae of the lower back and pelvis, and force the breath to alter.

# CAN YOU EXPLAIN WHY AND HOW HARD I HAVE TO TAP THE CHEST IN THE TAPPING CHEST EXERCISE?

Tapping on the chest stimulates the lungs and heart. It also gives a light mobilization to the little joints between the breastbone and the ribs. When you loosen the breastbone joints, you also loosen the upper and mid-back since the ribs connect the two. I like to tap hard enough to make a hollow sound, which might take some practice. Only go as hard as your comfort level allows; the taps are taps, not large thumps. They should not cause bruising.

#### WHY WOULD STROKE THE CAT REVITALIZE ME?

It does so thanks to a domino effect. It's a great way to round the back fully and this helps you work the upper abdominals. That promotes the opening of the mid- and upper back, which in turn opens the diaphragm – the main muscle that we use for breathing. A tight mid- and upper back prevents the back part of the diaphragm from working properly, so some of our potential oxygen supply is cut off.

#### DOESN'T THE PRONE ROCKER STOP MY BREATH? HOW DO I NOT HOLD MY BREATH IN THIS EXERCISE?

It's always a challenge and takes some practice to master breathing while lying on the abdomen. Then adding the lift of the abdominals, the pulling of the tailbone to the heels and making smile lines at the tops of the thighs can be overwhelming. Remember that performance varies and every attempt will be a little different. First, line up the body before you begin to rock. When you rock forwards, it will actually be natural to exhale through your mouth. Think of the inhalation as lifting you up before you catch yourself on your hands. It's often simplest just to exhale on the rock forwards and you will then automatically inhale as you lift your shoulders up again.

# I HAVE BAD KNEES. HOW CAN I DO THE REST BREATHER OTHER THAN ON MY KNEES?

One way to modify this exercise is to stay high in the all fours position, with the hands under the shoulders and the knees under the hips. Then it's more like the Cat and Camel exercise in the Soothing the Back programme. Another modification is to lie on your side, hold onto your knees and breathe into your back. Yet another modification is to lie on your back, hold onto your knees and gently circle them, as in the Sacral Circles of the Soothing the Back programme.

# I DON'T UNDERSTAND HOW THE PLANK BALANCE HELPS REVITALIZE ME, OR HOW IT USES MY BREATH.

The Plank Balance, one of the hardest of the plank exercises, challenges the breath and increases body temperature because of its intensity. You have to breathe harder simply to maintain this position at all. Like the other programmes, Revitalizing the Back is designed to help you be successful when you reach the hardest exercises. Those leading up to this one will have promoted greater use of the breathing muscles, so that by the time you get to the Plank Balance you have the best chance of achieving it. If you need to modify the exercise, especially if you find you are holding your breath, do so by staying with both feet on the ground. Another modification is to lower the knees to the ground and hold yourself up with your forearms, knees and toes.

# 15 MINUTE





# **ENERGIZING THE BACK**

Energizing the back can be misunderstood. It does not mean overusing or abusing the back. The spine is the all-important central command post for all movement. Here we activate it fully, as if each muscle cell were plugged into an electrical cord. The worthwhile result will be better whole-body movement.

The best way to energize the back is to activate and recruit the muscles fully - to turn the electricity on and then turn up the volume. We do this by coordinating the breath with exercises that work the core – the deep abdominal muscles, the deep lower-back muscles and the deep pelvic muscles. Do this series when you want a challenge. Persevere even if you have to modify the exercises or have to work up to doing all the repetitions. Staying with this programme is important for beginners: it will fast-track your understanding of the muscles that need to work for your back to improve. But this programme does not only contain essential core exercises. It also works the legs, which connect to and work with the core muscles. The result is an integrated, whole-body experience.

#### THE EXERCISES

Circling motions of the arms, hips, wrists and ankles prime and energize the body for the later, more intense muscle-contracting exercises. The Hip Lift and Swimming exercises are among the greatest back-strengthening exercises. To modify the Hip Lift, open the legs and press down on the feet as you lift the hips. Pressing down on the feet and forearm, especially sideways, puts extra pressure on the bones. Our bones are only as strong as the pressure we apply to them. Space travel has proven the deleterious effect on bone density when atmospheric pressure is removed. So build up to this exercise and you won't regret it when you take a tumble.

#### TIPS FOR ENERGIZING THE BACK

- Feel your back sensations increase.
   Check to see if you can feel and identify all the parts of your back.
- Consciously breathe through the intense parts of the exercises.
- Strive to make your right side feel as sensitive as your left during this programme.
- Imagine the electrical cord connection between your conscious thoughts and the motions you make in each exercise. This will increase your mind-body connection and fully energize your back.

Moving on through the programme, the Swimming exercise creates endurance. If your back starts to tighten up, come down, breathe and relax and then start again. The Compressions exercise, though less obviously intense, generates thorough use of the front of the body and activates the core. And for alignment and coordination of the core, the back and the inner thighs – our 'second spine' – work on First Position Abs and Puppy Dog Abs.

**In an energized back** the muscles work actively and powerfully with those of the core and the legs to ensure good whole-body movement.



# **LIMBERING ARM CIRCLES**



Again, lift up and out of the waist and tighten the waist. Lengthen the tailbone. Reverse the movement with the hands, imagining making 4 more circles on the ceiling. Bring the arms down.



# LIMBERING HIP CIRCLES



Stand with your legs about shoulder-width apart. Place your hands on your hips. Start moving your hips in a circling motion. Notice that your knees will also circle at the same time. Keep them a little bent. Be sure to tighten your waist. Circle your hips one way 5 times.



Still keeping the knees bent and the waist tight, circle the hips the other way 5 times. Repeat the hip circles again 5 times in each direction.



### STABILIZING WRIST AND ANKLE CIRCLES



Stand with your legs about shoulder-width apart. Place your left hand on your left hip joint. Slowly shift onto your left leg, raise your right and find your balance. Tighten in your waist to help with the balance or hold onto a chair. Press your left foot into the ground.

Circle the right ankle and right wrist at the same time. Circle 5 times. Reverse the direction for 5 circles. Repeat the whole exercise again, then shift onto the right leg and repeat, circling with the left foot and left hand. Take the left leg down to the floor.





## **OPENING BACK STRETCH**





Breathe, then return your chest and focus to look forwards again by lifting through your ears. Repeat the exercise 3 more times, inhaling as you focus up towards the ceiling and exhaling as you lengthen your spine and lift through your ears to return to look forwards. As you lift your chest, feel as if a hook is pulling your breastbone up to the ceiling.



# **LENGTHENING SIDE STRETCH 3**



# **ARTICULATING COMPRESSIONS**



## **COORDINATING PUPPY DOG ABS**



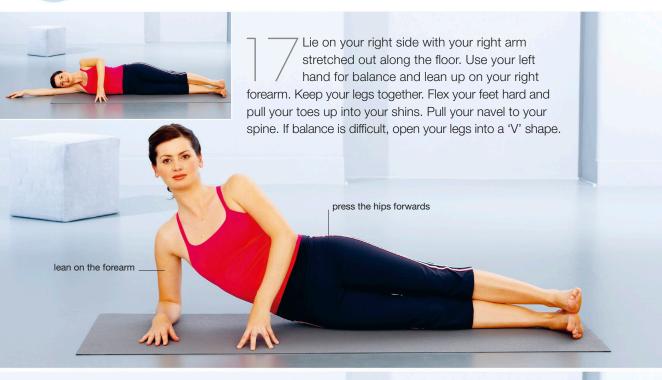




## **OPPOSING FIRST POSITION ABS**



## **POWERING HIP LIFT**

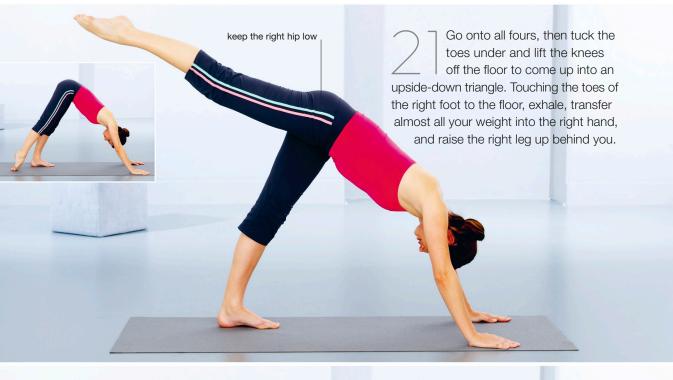




# **SUSTAINING SWIMMING**



# STABILIZING INVERTED STRETCH





# **CENTRING HANGING STRETCH**



Stand with the legs about 7.5cm (3in) apart. Place the left foot ahead of the right with about a foot's-width between the legs. The toes point forwards. Cross the arms, hold the elbows and pull the navel firmly into the spine. Reach the elbows downwards.

Continue to reach the elbows down towards the floor. Stay in this rounded position, firmly holding the abdominals as you take 3 breaths. Carefully roll up, feeling as if the abdominals are walking up the front of the body. Repeat on the other side. Come back up and relax.

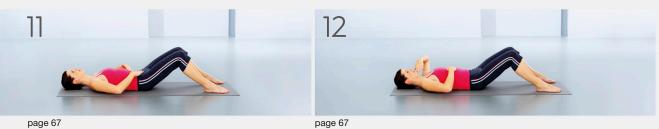




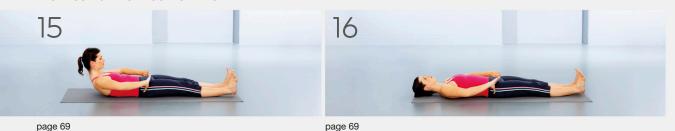
# **ENERGIZING THE BACK SUMMARY**







### > OPPOSING FIRST POSITION ABS



### > SUSTAINING SWIMMING



# > STABILIZING INVERTED STRETCH



page 71 page 71 page 72 page 72

page 66



# > LENGTHENING SIDE STRETCH 3







page 66











# **ENERGIZING THE BACK FAQS**

The Energizing the Back programme contains some of the most difficult exercises in the book. Beginners often cannot engage their muscles enough to know the exercises are difficult. Here are some common questions that will help you get the most from the exercises and will explain how to modify or work up to accomplishing the hardest ones.

# **HOW DO CIRCLING MOTIONS ENERGIZE MY BODY?**

The Arm Circles require energy to stabilize the trunk. Notice the difference between circling with the rib cage loose and again after tightening the hips, waist and ribs. The more you lift towards the ceiling, the more effective you'll make the exercise. The Hip Circles are similar. Moving the hips helps you find tight areas, points in the circle that are less smooth. Make a note of these and work to improve them. Wrist and Ankle Circles energize the muscles you need to balance and generate energy in little-used areas like the forearms and shins.

# I DON'T UNDERSTAND THE TERM 'COMPRESSIONS'. WHAT IS IT I AM COMPRESSING EXACTLY?

The front of the body is soft and pliable in relation to the back, which is braced by the rib cage, the spine and the back of the pelvis. Most people do abdominal exercise only to the point of shortening the rib cage towards the knees, but the abdominals have deep layers and there are other muscles that help to make the front of the torso concave. 'Compressions' find these deeper connections that help you to go beyond traditional sit-ups.

# WHAT IF MY NECK GETS TIGHT IN THE PUPPY DOG ABS? I FIND THAT EXTREMELY PAINFUL.

Most of the time this is because the upper abdominals aren't engaged enough to lift the upper trunk and head. The Compressions exercise will help prepare you, but if the neck still tightens it could be due to fatigue. Then it's best to let the head come down and relax the neck. Try again after you've done the Energizing programme for a couple more weeks. Your endurance will improve.

# MY BACK TIGHTENS UP IN THE FIRST POSITION ABS. CAN YOU SUGGEST HOW I CAN PREVENT THIS?

The focus of this exercise is on keeping a neutral lower-back curve, which slightly elevates the lower back off the floor and makes the backs of the thighs heavy and, ideally, makes them touch the floor. If you arch and elevate the lower back too far off the floor, then bring the legs together to squeeze them, it may overtighten the lower back. Avoid this by making sure the back of the rib cage is down against the floor. Another key point is, as you squeeze the legs together, to make sure you're tightening the inner legs near the buttocks region and not just from the front of the thighs. Squeezing from the buttocks also takes the strain off the lower back.

# CAN YOU TELL ME HOW I CAN PREVENT MY CALVES CRAMPING UP IN THE SWIMMING EXERCISE?

The body is so smart; it often accomplishes a task by using body parts other than the ones intended! This phenomenon occurs when we are doing a movement that's unfamiliar, or that may need more strength to accomplish. Prevention starts by making sure you take into account the preparatory cues before the exercise begins. Next, make the movements small instead of performing a full-fledged swimming kick. Move from the hips and keep the knees straight. One helpful image is to think of the feet as 'baby feet', and keep them relaxed and not at all taut.

# THE HIP LIFT JUST SEEMS IMPOSSIBLE. HELP!

Doing exercises from the side doesn't feel natural to most people, so modify it until it feels easy. The easiest modification is to bend both knees towards the waist, lean on the forearm and then lift the hips. The next step up is to straighten the legs, but open them. Usually I put the bottom leg forwards and the top one back, being careful to keep the top hip facing up, not back. The next step is to keep both legs straight, lean onto the front hand and then lift the hips. When you're feeling particularly strong, place the top hand on the hip, or better still, behind the head, then lift away!





THINK SUPPLE AND LITHE, SMOOTH AND FLOWING. FLUIDITY MEANS GRACE AND EASE.



# **SOOTHING THE BACK**

It's a fallacy to think that the back is only being helped when it's working the most strenuously. Athletes know that the best way to train is to stress the body, then relieve it, stress it, then relieve it. This final programme aims to soothe and relieve, so giving the back a truly comprehensive workout.

This Soothing the Back programme rounds off the four programmes in my Better Back workout and provides the balance that the back requires. It's possible - and desirable on a regular basis - to soothe your back through movement. While the best recipe for a healthy body is to combine both active and passive elements of care, 'soothing' doesn't imply the bodily passivity of meditating, resting and sleeping. These soothing motions are gentle but active. They help the vertebrae to achieve a better range of motion and optimally to operate in a flowing manner. It is said that we are only as young as our spines. A youthful, healthy spine moves without stiffness from bone to bone. The exercises in this final programme are designed particularly to promote fluidity. They help us to achieve the goal of moving effortlessly and with grace and ease throughout our daily tasks.

### THE EXERCISES

Set the tone for this programme by starting with the Cat and Camel, a classic back exercise. Unleash the power of the programme by focusing on elongating. Avoid the pitfall of simply hinging the spine at its primary hinge point – the waist. Instead, imagine the head is pulling forwards in opposition to the backwards pull of the tail. Round up into the breastbone and reach all the points of the bones of the spine up and away from the floor. Once you've become sensitive to all the different parts of the spine, keep their image in your mind as you go into the next exercises.

# TIPS FOR SOOTHING THE BACK

- Think of your spine as a long snake and see it in your mind as very supple and lithe.
- Note any choppy or incomplete movements as you go through these exercises. Try to keep all your movements super-smooth.
- As you repeat the exercises, strive to make the motions even smoother, like silk sliding over glass.
- Note particularly how comfortable you are as you move from one direction to the other in Rounded Alligator and Baby Rolls.

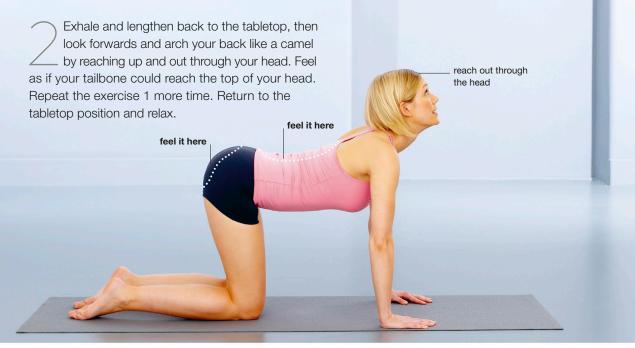
The elongated spine image will help you with the more difficult Combined Curl-up. If the neck gets tight, lower it and elongate the neck as if someone were pulling it gently away from the torso. The Seated 'U' challenges the elongated spine in sitting and leaning; the Heel Taps challenge it while lying on the stomach. To modify the Forearm Plank, simply lower the knees onto the ground instead of straightening them all the way.

**Soothe the back** with this gentle programme. Use it as a starting point if you are new to exercise, to give variety to your workouts and at times when you need restoration.



# **ELONGATING CAT AND CAMEL**





# COORDINATING ROUNDED ALLIGATOR



# **ARTICULATING BABY ROLLS**



Start by lying on your right side with your legs bent up. Hold your hands on top of your knees. Put a towel around your neck if you need extra support. Roll onto your back, feeling as much of your back as possible resting against the floor.



Then roll over onto your left side, letting your focus and head linger to the right. Think: 'leg, leg', then the head rolls last. Repeat the exercise, starting on your left side, then rolling onto your back and lingering the focus to the left. Continue gently rolling from side to side 3 more times.



# **SOFTENING SACRAL CIRCLES**



Roll to your back with your knees bent.

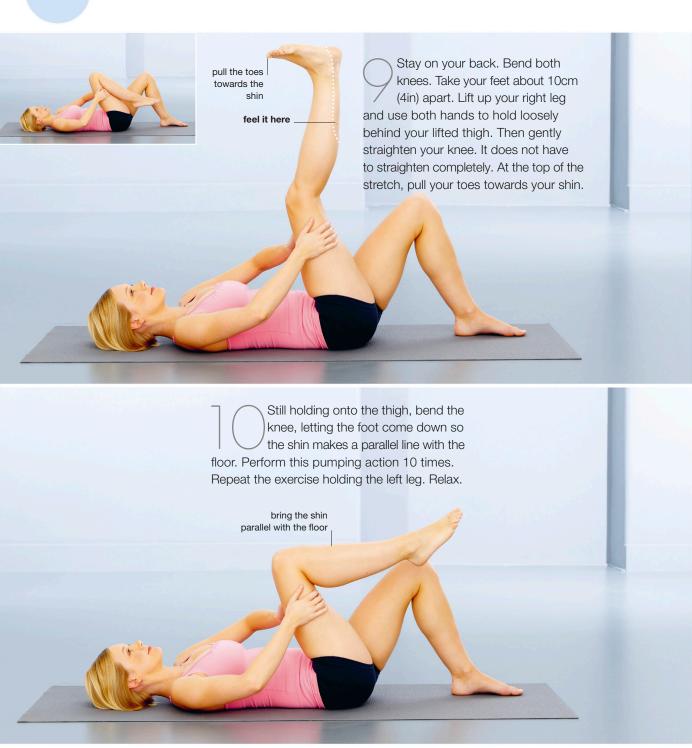
Compress your abdomen thoroughly to touch all parts of your back to the floor. Hold onto your knees. Then gently circle your knees together. Feel as though you are circling the rim of a saucer with your pelvis. Circle in both directions 2 times.



Place the soles of your feet on the floor. Keep your knees bent. Place your hands on your hip bones for feedback. Circle your pelvis again as before. Move in one direction for 4 circles, then reverse. Circle your pelvis 2 more times in each direction.



# **LIMBERING KNEE PUMPS**



# **CENTRING INVERSE FROG**



Stay on your back with bent knees. Compress your whole back against the floor and place your hands on your hips for feedback. Keep your back pressed firmly against the floor as you gently open both knees sideways towards the floor, like a frog. Let the soles of your feet come together.



Exhale and deepen the abdominal compression as you bring the knees together again. Repeat the frog-like opening and closing 3 more times. Relax.

compress the abdomen

bring the knees together

press the lower back against the floor

# **ARTICULATING BALLOONING**



Stay on your back with knees bent. Let your whole back fall into the floor. Place your left hand on your rib cage with your thumb between your breasts. Breathe in through your nose. Expand your chest and tighten your abdominals.

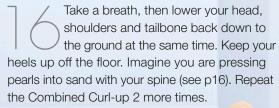


Now reverse the action. Breathe out through your mouth, squeeze your chest and expand your abdominals. Inhale, expand your chest; exhale and squeeze your chest, for 3 more repetitions. Think of liquid in a tube flowing up and down the front of your spine as you perform this exercise.



# **COORDINATING COMBINED CURL-UP**







# **BALANCING SEATED 'U'**

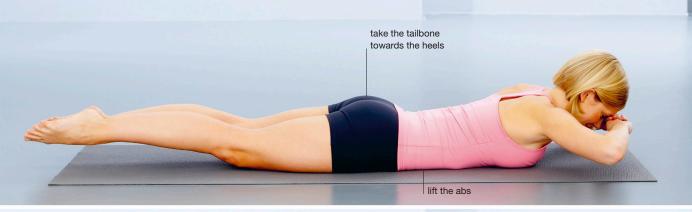




# **ACCENTUATING HEEL TAPS**



Lie on your front with outstretched legs. Place your hands underneath your forehead and rest your head on top. Rotate your legs to a 'V' shape, heels together and toes apart. Exhale as you levitate your head, hands and feet about 5cm (2in) off the floor. Feel the smile lines (see p16). Look downwards.

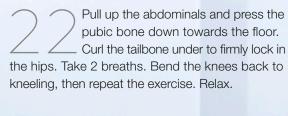


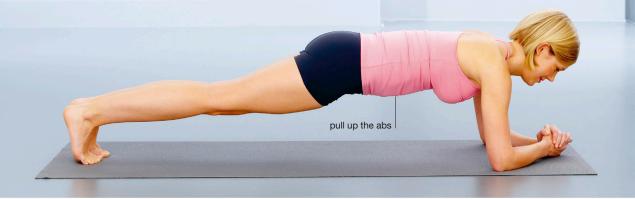
Tap the heels together a total of 32 times, in 4 sets of 8. Frequently improve the work of the exercise by holding the abdominals inwards and tight, anchoring the hips with a strong tailbone tuck, and pulling the gaze towards the floor. End by holding and tightening the hips, then lower down and relax.



# **POWERING FOREARM PLANK**







# **ARTICULATING HANGOVER ROLL-UP**

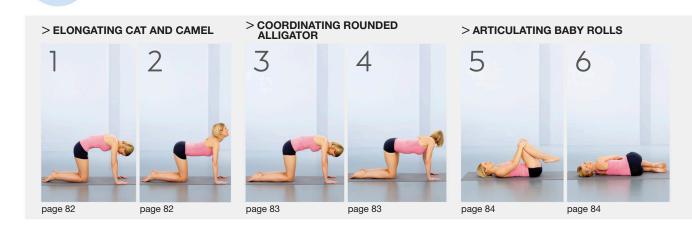


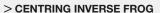
From all fours, exhale and lift the hips, holding the navel to the spine (see p17). Walk the hands towards the feet. Keep the knees a little bent. Take 2 breaths, then start rolling up. As you pass the thighs, cross the wrists and take off an imaginary shirt.



Continue rolling up, feeling as if the vertebrae are stacking up vertically through the lower back, waistline, rib cage and shoulders, until the head reaches up on top of the pelvis (see p17). Circle the arms to lower, Relax. the vertebrae stack up, one on top of the other

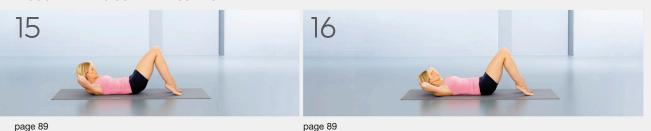
# **SOOTHING THE BACK SUMMARY**



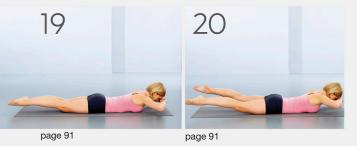




### > COORDINATING COMBINED CURL-UP



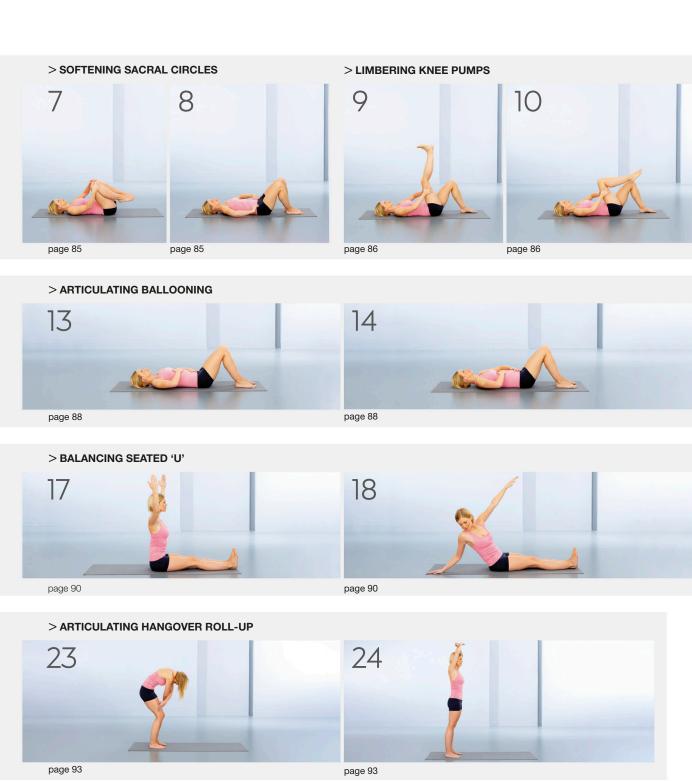
# > ACCENTUATING HEEL TAPS



# > POWERING FOREARM PLANK



page 92



# **SOOTHING THE BACK FAQS**

Soothing your back is possible through exercise. The body is designed to move in a myriad of ways and varying the type of exercise you perform provides balance. This Soothing the Back programme offers a kinder and gentler form of movement. Its soothing exercises accentuate the quality of motion, making your movements smooth and effortless.

# I DON'T UNDERSTAND HOW THE BABY ROLLS WILL HELP MY BACK. CAN YOU EXPLAIN PLEASE?

The Baby Rolls promote what we call 'mature' motion of the spine. A fully developed body is capable of moving in all directions. When you roll from side to side, with the head rolling last, you effectively rotate the entire spine. So Baby Rolls help you to achieve a full rotational range of movement in all the segments of the spine. I do this exercise daily to keep my spine healthy.

# WHAT DO SACRAL CIRCLES DO?

They do several things. They help to stretch all parts of the waist, especially in the back, in the tough tissues between the ribs and the pelvis. These tissues often become unbalanced by one part being too short and the other too long. Sacral Circles are also a great abdominal toner. The abdominals contain several layers of muscles and Sacral Circles hit them all.

# **HOW DO THE KNEE PUMPS BUILD A BETTER BACK?**

Knee Pumps are really an exercise to make the sciatic nerve – the large nerve that runs down the back of the thigh from the pelvis – stretch more easily and if the area around the pelvis is comfortable, that will help the back, too. Nerves stretch at a different rate than the muscles; sometimes leg tightness is really a sciatic nerve tightness and not muscle tightness. Knee Pumps also relieve back tension and 'oil' the knee joints so they're happier.

# WHAT DOES BALLOONING DO?

Ballooning is the sneakiest of the torso exercises because it is a wonderful toner for both the abdomen and the diaphragm. The diaphragm divides the torso into two cavities – the thoracic cavity in the rib cage and the abdominal cavity in the abdomen. Ballooning effectively stretches these two areas from the inside out. It is as if you are squeezing one side of a balloon and seeing the other side bulge. Since you use muscles to activate the motion, you also get this wonderful abdominal and diaphragmatic toning effect.

# **HOW DOES THE SEATED 'U' HELP THE BACK?**

It works on the back because it makes you lean away from your centre of gravity. One aspect of balance and core training is to destabilize your base of support, which here is your hips. As you lean back, your muscles 'grab' because the body intuitively knows that it's falling off balance. Then those muscles activate more to bring you back to a balanced position. The back has more muscles than any other part of the body, so getting them all activated and toned presents a challenge. The Seated 'U' hits many of these muscles.

# THE HEEL TAPS FEEL AWKWARD AND I FIND THAT MY LEGS DON'T COME TOGETHER AT THE SAME TIME. CAN YOU TELL ME WHAT THAT'S ABOUT?

Lying prone on the stomach is the most unnatural, and so the most awkward, position for people since they usually sit and stand all day. Babies go through a period of lying on their stomachs in order to develop strong enough back muscles to stand, and we are the same. Comprehensive back-strengthening programmes must always include prone-lying exercises. The tapping of the heels creates an added challenge because the limbs are moving. Tapping together at the same time forces us to negotiate and smooth out any discrepancies in side-to-side (right-to-left) back and inner-thigh movement.





# **HOW TO MAKE PROGRESS**

Progression often seems tricky but you just have to get started and suspend judgement about how you're doing. Follow the instructions as faithfully as you can, bearing in mind the imagery, pacing and cue guidance. Once you're familiar with the exercises, you can begin to build up your programme further.

Familiarize yourself with all four programmes before beginning any exercise. The programmes are all designed so they begin slowly and gently and work up to become more difficult. If you are a complete beginner, try starting with Soothing the Back.

Whatever your level of fitness, you should be able to do most of the 12 exercises in each of the programmes, especially those of the Soothing the Back programme. If you cannot do all the exercises, be proud for the ones you have completed. It is never a failing to skip an exercise that makes you uncomfortable, or that your body tells you you should not be attempting.

To make the exercise easier if you need, bend your knees or do only part. Be clever and allow yourself some variation until you feel you can do the exercises as demonstrated. Aim to do the workout three times per week and expect to be a bit sore. Soreness is natural on the first day after beginning new exercises and peaks on the second day. Soon your body will be trained to expect a daily dose of physical exertion. Then progress by taking the advice below for the occasional exerciser.

### **OCCASIONAL EXERCISERS**

If you are an occasional exerciser, start with the Developing the Back programme three times a week for two weeks. Then progress to the Revitalizing the Back, Energizing the Back and Soothing the Back programmes in that order for two weeks each. That way you'll teach your body to accept a variety of movements and stresses from many directions, plus

# **TIPS FOR MAKING PROGRESS**

- Novices and people recovering from illness should start with Soothing the Back three times a week.
- Occasional exercisers should start with Developing the Back three times a week for two weeks, then progress the other programmes in a six-week cycle.
- Regular exercisers should randomize the programmes, starting with Developing the Back. Daily back workouts are best.
- To progress to a full one-hour workout, first pair the Soothing programme with the Developing programme, then add the others, one at a time, when you can.

you'll complete a solid eight-week conditioning programme that is sure to get you noticed for your erect posture and stance. Have faith and persist if you only have time to be an occasional exerciser. The benefits of a strong back and better posture will creep up on you!

### REGULAR EXERCISERS

If you exercise regularly, then randomize the order of the programmes from the very outset. I recommend starting with Developing the Back.

Performing a programme once a day will give wonderful results. Remember that all these exercises are safe to perform on consecutive days.

Doubling up the programmes is a great way to fast-track your progress. Try pairing Developing the Back with Soothing the Back for two weeks, three times per week and then progress to pairing Revitalizing and Energizing with the Soothing programme in that order for another four weeks.

### ONE-HOUR WORKOUT

You can also gradually work up to doing all four sequences at once to give a one-hour workout. Use the Regular exercisers strategy above, then slowly double and triple the workouts until you achieve all four at once. When you reach this point, remember to factor in some recovery time, taking two consecutive days off every few weeks.

### **PROBLEM BACKS**

If you are recovering from a back condition or major illness, check with your doctor before using the Better Back workout. The Soothing the Back programme will be best to begin with. Start with several repetitions of the Cat and Camel, Rounded Alligator and Sacral Circles and slowly progress to the full programme. Even if you were an advanced exerciser before your illness, start slowly, picking the exercises that come easiest. If you truly can't complete a number of them, try imagining in as detailed a fashion as you can that you are exercising. Research reveals that just doing this can activate the connections between brain and body.

If you have a problem back, doing several repetitions of the gentle Cat and Camel is a safe and gentle way to start getting used to exercising your back.



# **STAYING MOTIVATED**

Staying the course to achieve your goals is a well-researched subject.

You can train yourself into a new behaviour, using conscious effort, in about 21 to 28 days. After that, maintaining your selected programme becomes more automatic and eventually can become a real lifestyle change.

To begin with, you need to commit yourself to three weeks to push through the initial unfamiliarity of the programmes. This will lay the ground for further benefit. 15-Minute Better Back will give maximum advantage if you select one programme to do at least three days per week. However, all four of the programmes in this book can can certainly be done daily, even more than once, if you wish. I perform many of the exercises in the programme about five days per week to keep my back strong.

### AFTER THE FIRST THREE WEEKS

After your initial three weeks, you may encounter 'bumps in the road'. This is where novelty and variation come in. A comprehensive fitness programme involves cardiovascular work such as walking, bicycling and swimming in order to give the heart and lungs a workout. Alternating this type of activity with the programmes in this book will keep you fresh for more.

Working towards a progress benchmark is another great way to stay on track. A benchmark can be as simple as performing one programme four times a week for the first three weeks, or just realizing that sitting at your computer has suddenly become easier. My clients frequently keep a small exercise journal to chart their frequency of exercise and what their achievements are.

Bear in mind that there is no way you can lose; faithfully giving positive attention to yourself can give only positive results. At first the movements may seem foreign and uncomfortable. You may

# **TIPS FOR STAYING MOTIVATED**

- Commit yourself to three weeks to push through the unfamiliarity barrier.
- Introduce variety, alternating the programmes with other exercise that you can easily fit into your routine – walking or cycling are good examples.
- Work towards a progress benchmark, such as aiming to perform one sequence four nights a week for the first three weeks.
- Keep an exercise journal to chart the frequency of your exercise and the goals you want to achieve each week.

not even be able to do one or two of the exercises. Don't give up. Visualize your healthy body and use the models as your guide to help you perform the sequences to the best of your ability.

Some days you'll feel better than others. If you persist, you will often find that just going through a programme will make you feel better on a down day. As I tell my clients, once you make exercise part of your routine, you'll begin to crave it!

**Get yourself into a routine** where you try to train at the same time each day, if possible. You'll quickly gain a sense of satisfaction each time you unroll that exercise mat.



# **FINDING A TEACHER**

Congratulations on working your way through 15-Minute Better Back! Now you may well want to know about how to find full-hour group classes and private instructors who can help you with your progress and also individualize challenges and goals for you that are tailored to your needs.

Finding a teacher mostly involves keeping your eyes open. The familiarity with exercising that you have gained by using this book will help you compare the type of material that is offered in classes and the way that content is presented. Be careful of simply being drawn in by the charisma of an attractive and fit instructor. First decide if you want a stretch class, a movement class such as cardio-fusion, a fun and funky class like hip-hop or street dance, or an inner-focused mind-body class, such as yoga offers.

Content is essential, yet many people select their exercise classes strictly from class titles and are not savvy when it comes to analysing the content. A far better way to see what you're getting into is to observe the class. Watch and see if the instructor looks at the participants or is simply in love with the image in the mirror. Watch also to see that they are neither over-zealous, in which case they risk causing injury, nor ineffective, which will be a waste of your time and money.

# CHECK THE INSTRUCTOR'S QUALIFICATIONS

Ask for the teacher's credentials, such as certifications or college degrees. There is no need for an uneducated teacher. Instructors now have the resources to become educated in basic body mechanics and general health. You deserve to be reassured that your instructor is properly trained and qualified. If a teacher says they are self-educated and don't need formal training, remember that is a code for 'quack'. If you have a special back issue, do have a brief chat with

# **TIPS FOR FINDING A TEACHER**

- Select classes based on observation, not just class titles.
- Notice if the teacher watches the students and note the interactions between the teacher and the students.
- Beware of the charismatic teacher, who teaches on personality alone, without thought to safety or content. Chemistry counts, but there has to be more.
- Become a regular attendee. The teacher will be able to observe and guide you best if they are able to watch you over time.

the instructor before deciding to join that class. Get an idea if the instructor is hesitant about your participation. Also be aware that the instructor may be warning you that the class is not for you, and heed the advice. Usually a teacher will have ideas about other classes that may be better for your body type, fitness level or rehabilitation needs.

Going to class with a friend – the buddy system – can help get you to a class, but if for some reason it is not the right class for you, you will be going backwards. If you have to go to a certain class because you need a lift with a friend, but you find that though the content is right, your chemistry is

not right with the instructor, don't throw out the baby with the bath water. Work out what you need and attempt a little gentle negotiation. Being assertive in a non-confrontational manner can help both you and your instructor.

Once you've embarked on a class, do give it time, since only time will tell if you've found your mentor. Just like job interviews, you may have to go through 10 instructors to find that special one. However, if the instructor is anything less than respectful and encouraging towards you, go and find another class, no matter how much you feel you want to belong to that particular group. Of course, class dynamics will vary from lesson to lesson, but every class should make you walk away saying to yourself, 'Every day in every way, I'm getting better and better!'

One of the best ways to fast-track your progress is to work with your class teacher privately, even if it's only for a few sessions. This will aid you in

understanding your progression rate and will help to demystify more of the language and concepts you will come across as you go on.

Matching your goals to a class and instructor may take more time and effort than you expected. Just mentioning what you are looking for in a class when you show up for the first time may not make the class what you intended. An attentive instructor will prepare classes with the regulars in mind, not the newcomers, though they should encourage and help new participants find their way.

Remember that everybody needs something different. Finding a class and teacher that are right for you will bring you satisfaction, fellowship and improvement beyond your expectations.

**Finding a teacher** takes footwork, asking friends for references and being patient while exploring the options. The right teacher will help you with your specific goals.



# **HEALTHY LIVING**

Once you start to feel the benefits of 15-Minute Better Back, you will certainly take a more holistic interest in your body. That means thinking not just about exercise, but also about nutrition, rest and restoration. Ensuring this balance makes life worth living and allows us to remain happy along the way!

'Rest, digest and heal' is one of my favourite mantras. Everyone needs rest, nutrition and restoration, from the most active athletes and physical labourers to the busiest, most stressed-out parent or office worker. The winning formula invariably involves alternating periods of activity and stimulation with periods of rest and relaxation. Eating the right foods, in the appropriate amounts and establishing a regular sleep schedule are additional invaluable tools that help to promote overall wellbeing and lifelong happiness.

We live in a wonderful time when food, for those of us in the developed world, is abundant. Science and research now provide young and old alike with specific information about what nutrients they need. how food is metabolized in the body and what foods are beneficial and why. Eating fresh foods, including antioxidant foods, watching the sugar content in our fruits and vegetables, and monitoring the amount of water in our daily diet are strategies that pay off when it comes to focusing on a better back. These strategies help us maintain an appropriate weight for our height, which is crucial in not challenging the back more than it needs. Carrying extra weight, especially around the midsection, literally places severe, unnecessary and even dangerous loads on the spine.

# TIPS FOR HEALTHY LIVING

- Choose five servings of fruits and vegetables per day.
- Include protein-rich foods in your diet for better health and a better back, too.
- Limit your intake of alcohol, and high-sugar and high-fat foods.
- Drink at least six glasses of water per day.
- Match your carbohydrate level to your level of activity.
- Alternate activity with rest, even if the rest periods can only be brief.



### **NUTRITION ESSENTIALS**

Our bodies require the basic nutrients provided by carbohydrates, fats and proteins. Hydration is also an essential requirement of all living things. Carbohydrates are vegetables, fruits and starches. Starches are heavy carbohydrates like bread, potatoes and pasta. The carbohydrates all provide energy and vitamins. Good fats, such as monounsaturated fats and omega-3 oils, are necessary for the hormones – the chemical messengers that regulate reproduction, the metabolism and bone functions among others – and for our skin, which is our primary immune defence system.

Last but not least are the proteins – the building blocks that make up the ligamentous and muscular systems that bind the joints together. To have a better back, you particularly need sufficient protein, since the back alone is made up of over 50 joints. Providing adequate amounts of protein for the constant repair that a moving, living spine requires demands special attention. Protein-rich foods are nuts, lean meats, seafood, whole grains and legumes such as peas and beans.

### SLEEP REQUIREMENTS

Modern life often means sleep loss. Getting six to eight hours regularly can be challenging for new parents, students, commuters and avid television viewers. The fourth stage of sleep is most important. It is when our tissues heal from the knocks and overuse of everyday living, and it enables us to cope with our everyday stresses to boot. Backs are particularly vulnerable to stress, fatigue and remaining upright for extended periods. Attending to proper rest, in a horizontal position, lessens the strains of gravity on the joints as well as lessening our emotional burdens.

Overtraining and overstimulation are also detrimental. Overtraining causes an inability to sleep and that's when injuries increase dramatically. Everyone loves the occasional night out, but ongoing overstimulation eventually causes burn out. The humbling truth is that our bodies – and our backs – are finite. They, like us, need regular rest and restoration.



# **USEFUL RESOURCES**

It is always best to seek medical advice from medical professionals regarding back problems. However, it is also prudent to take a proactive approach to general health and preventative care. These resources will help you find professionals and general information.

### THE UK

### **GENERAL FITNESS**

# British Association of Sport and Exercise Medicine

basem.co.uk
Founded in 1953, BASEM is
the oldest Sport and Exercise
Medicine Association in the
United Kingdom and is the official
UK representative to both the
European Federation of Sports
Medicine Associations (EFSMA),
and the International Federation
of Sports Medicine (FIMS).

### **PILATES AND BACKS**

The Pilates Method is well known for offering core conditioning and back rehabilitation and has been proven to help with lower back stabilization. Yoga and the Feldenkreis Method are also useful for the back, particularly to increase range of motion, but the primary focus of the Pilates Method is strengthening and stabilization of the spine. For this reason, as a Pilates practitioner for over 20 years, I believe that

the principles and concepts of the Pilates Method can be applied to all physicality involving the back. The exercises in this book are largely influenced by the Pilates Method.

### **PILATES Foundation**

pilatesfoundation.com
The only not-for-profit professional
Pilates organization in the UK
dedicated to ensuring the highest
standards of certification training,
continuing education and code of
conduct. Has a useful website
that is designed to help you find
out information about Pilates
teachers in your area, as well as
supplying information on all
aspects of Pilates.

### **HELP WITH BACK PAIN**

### NHS Health A-Z

nhs.uk/conditions/back-pain Offers an overview to back pain that will help you decide what action you need to take for an episode of back pain. Also recommends when to contact a GP or 111 for issues relating to back pain.

### Pain Concern UK

painconcern.org.uk
This organization offers
information and support for
pain sufferers, with free fact
sheets and leaflets, a quarterly
magazine and an 'Airing Pain'
radio programme.

# **British Acupuncture Council**

acupuncture.org.uk
Some people find acupuncture
helpful for the management of
their back pain. This website
explains the role of acupuncture
in health care and a link enables
you to find a BAcC-trained
acupuncturist from its directory
of thousands of registered
practitioner members.

# Chartered Society of Physiotherapy

csp.org.uk

The professional, educational and trade union body for the UK's 60,000 chartered physiotherapists, physiotherapy students and assistants. Their Physio2u directory will help you find a chartered physiotherapist who offers private services.

# General Chiropractic Council acc-uk.org

Chiropractors provide care for patients with a range of acute and chronic conditions, including back pain. As well as advice about self-help, exercise, diet and lifestyle, chiropractors often provide support for pain management, sports injuries and active rehabilitation. The General Chiropractic Council is the body established by Parliament to regulate, develop and promote the chiropractic profession. The website also enables you to find a local chiropractor.

# **General Osteopathic Council**

osteopathy.org.uk
Established by the Osteopaths
Act 1993, the GOsC is the
regulatory body for osteopathy
in the UK. Osteopathy is a
way of detecting and treating
damaged parts of the body
such as muscles, ligaments,
nerves and joints. The website
also enables you to find a
local osteopath.

# Society of Teachers of the Alexander Technique

stat.org.uk
Having been taught for over
100 years, the Alexander
Technique helps you to identify
and prevent the harmful postural
habits that aggravate, or may
be the cause of, stress, pain
and under-performance.
Teaching members of STAT
will have completed a 3-year
training course. The website
also helps you find a local

### **CLOTHING**

registered practitioner.

# **Sweaty Betty**

sweatybetty.com
Founded in 1998 by Tamara
Hill-Norton, Sweaty Betty sells
gorgeous clothing for active and
not-so-active women in boutiques
nationwide and online.

### **AUSTRALIA**

### **PILATES AND BACKS**

# Australian Pilates Method Association

australianpilates.asn.au
A not-for-profit organization aimed both at teachers and those wanting to practise Pllates, including training, workshops, instructor membership and information on how to find a Pilates instructor in your area.

### HELP WITH BACK PAIN

### Healthdirect

healthdirect.gov.au/back-pain Offers an overview to back pain, including its causes, treatments, prevention techniques, and advice on when to see a doctor.

### Pain Australia

painaustralia.org.au
Australia's leading pain advocacy body, who work to improve the quality of life of people living with pain, their families and carers. The website offers several apps that can be used to help you better understand and manage your pain.

# INDEX

'O' balance 49

Δ.		
<b>A</b>	plank balance 52, 57	cramp, in calves 77
abdominal muscles: energizing the	seated 'U' 90, 97	cues 16–17
back 60	soothing the back 80	curl-up, combined 89
first position abs 69, 77	swimming exercise 71, 77	_
forearm plank 92	wrist and ankle circles 64, 76	D
hanging stretch 73	ballooning 88, 97	developing the back 19-37
oppositional lifts 31, 37	bending: protecting the back 14	diaphragm: ballooning 88, 97
puppy dog abs 68, 76	side bends 28, 36	stroke the cat 47, 56
sacral circles 85, 96	body yawn 23	diet 106-7
toe touches 27, 36	bones, strengthening 60	discs 11, 14
accentuating: heel taps 91, 97	breastbone, tapping chest 45, 56	
prone rocker 50, 57	breathing: ballooning 88, 97	E
temple 30	energizing the back 60	elongating: body yawn 23
alligator, rounded 83	rest breather 51, 57	cat and camel 82
angel wings 33, 37	revitalizing the back 40, 56	overhead squeeze 29, 37
ankle circles 64	buddy system 104-5	energizing the back 60-77
arms: arm circles 62, 76	'butt-ski, out-ski' 14	0 0
arm swing 42, 56	buttocks, smile lines 16	F
forearm plank 92		feet: ankle circles 64
overhead squeeze 29, 37	С	protecting the back 14
upper rolls 22	camel 82	first position abs 69, 77
wrist circles 64	cardiovascular programmes 102	first position parallel 14
articulating: baby rolls 84, 96	cartilage, discs 11	forearm plank 92
ballooning 88, 97	cat 82	frog, inverse 87
compressions 67, 76	centring: angel wings 33, 37	1109, 1110130 07
hangover roll-up 93		G
side bends 28, 36	hanging stretch 73	
Side Delias 20, 30	inverse frog 87	getting up, log roll 15
В	stroke the cat 47, 56	11
<del>-</del>	cervical spine 10	<b>H</b>
baby rolls 84, 96	chest, tapping 45, 56	hamstrings, smile lines 16
back: anatomy 10–11	circles: arm circles 62, 76	hands: imagery and cues 17
developing 19–37	hip circles 63, 76	wrist circles 64
energizing 60-77	sacral circles 85, 96	hanging stretch 73
imagery and cues 16-17	wrist and ankle circles 64, 76	hangover roll-up 93
posture 12–13	classes 104-5	heel taps 91, 97
problem backs 101	coccyx 10, 11	hip circles 63, 76
protecting 14–15	combined curl-up 89	hip lift 70, 77
revitalizing 40-57	compressions 67, 76	hyperlordosis 12
soothing 80-97	coordinating: combined curl-up 89	
back stretch 65	leg circles 48	I
balances: body yawn 23	puppy dog abs 68, 76	imagery 16-17
knee circles 24	rounded alligator 83	instructors 104-5
leg swing 43, 56	toe touches 27, 36	inverse frog 87
(011 1 40	1 07 00	

core muscles 37, 60

inverted stretch 72

# knees: knee circles 24 knee pumps 86, 96 rest breather 51, 57 L legs: cramp 77 energizing the back 60 inverted stretch 72 knee pumps 86, 96 leg circles 48 leg swing 43, 56 oppositional lifts 31, 37 protecting the back 14 puppy dog abs 68, 76 smile lines 16 squat stretch 26, 36 swimming exercise 71, 77 toe touches 27, 36 lengthening: side stretch 25, 66 limbering: arm circles 62, 76 hip circles 63, 76 knee pumps 86, 96 side stretch 46 upper rolls 22

# М

log roll 14, 15

lumbar spine 10, 12

Κ

'mature' motion, spine 96 modifying exercises 20, 40, 60 motivation 102–3

# Ν

neck: anatomy 10 puppy dog abs 68, 76 nutrition 106–7

# 0

'O' balance 49
oblique abdominals, side bends 28, 36
occasional exercisers 100
'old grey mare' position 37
one-hour workout 101
opening: arm swing 42, 56
back stretch 65

tapping chest 45, 56 opposing: first position abs 69, 77 squat stretch 26, 36 oppositional lifts 31, 37 overhead squeeze 29, 37

### P

para-spinal muscles 28, 36
pelvic muscles 17, 60
plank exercises: forearm plank 92
plank balance 52, 57
plank push-up 32
posture 12–13
powering: forearm plank 92
hip lift 70, 77
plank balance 52, 57
plank push-up 32
problem backs 101
progress 100–1, 102
prone rocker 50, 57
puppy dog abs 68, 76
push-up, plank 32

# R

regular exercisers 100–1 repetitions 20, 40 rest breather 51, 57 revitalizing the back 40–57 rib cage, angel wings 33, 37 rocker, prone 50, 57 roll-up, hangover 93 rounded alligator 93

### S

sacral circles 85, 96 sacroiliac joints 11 sacrum 10, 11 sciatic nerve 96 seated 'U' 90, 97 shoulders, upper rolls 22 side bends 28, 36 side stretch 25, 46, 66 sleep 107 slumped posture 12 smile lines 16 softening: rest breather 51, 57 sacral circles 85, 96 soothing the back 80-97 soreness 100 spine, see back squat stretch 26 stabilizing: inverted stretch 72 knee circles 24 oppositional lifts 31, 37 wrist and ankle circles 64, 76 stimulating, tread in place 44 stretches: back stretch 65 hanging stretch 73 inverted stretch 72 side stretch 25, 46, 66 squat stretch 26, 36 stroke the cat 47, 56 sustaining: 'O' balance 49 swimming exercise 71, 77 sway back 12

### Т

tabletop position 16 tapping chest 45, 56 temple 30 thoracic spine 10 toe touches 27, 36 tread in place 44

# U, V

upper rolls 22 vertebrae 10, 16–17, 80

### W

waist: angel wings 33, 37 sacral circles 85, 96 wrist circles 64

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