

OUR DECLARATION OF INTENT

The Les Mills global family is made up of 16,000 fitness clubs, 100,000 instructors and millions of participants from 112 countries around the globe.

SEPARATED BY GEOGRAPHY, RELIGION, RACE, COLOR AND CREED, WE ARE UNITED IN OUR LOVE OF MOVEMENT, MUSIC AND THE PURSUIT OF HEALTHY LIVING, BOTH FOR OURSELVES AND OUR PLANET.

AT LES MILLS WE BELIEVE IN THE DIGNITY OF EACH INDIVIDUAL WITHIN OUR COMMUNITY AND STRIVE TO RESPECT THE RIGHTS AND FREEDOMS OF ALL.

In our choice of role models, music and movements we understand that different people and societies have different standards of dress, popular culture and dance.

WE ALSO KNOW THAT WHAT IS CONSIDERED APPROPRIATE IN SOME CONTEXTS CAN BE SEEN AS INAPPROPRIATE IN OTHERS.

As a company that leads group fitness experiences for millions of people every day, we walk a fine line between delivering cutting-edge, innovative products and ensuring that accepted norms are upheld and respected.

Choosing, licensing and matching choreography to the right music is a huge challenge! We screen the music we use and try to avoid language and references that may cause offense. If we can, sometimes there will be an alternative track (at the bottom of the track list) for you to use instead.

WE EMBRACE OPEN COMMUNICATION WITH OUR GLOBAL FAMILY SO DIFFERENCES OF OPINION CAN BE EXPRESSED, AND COMPROMISES REACHED.

ABOVE ALL, WE ARE PASSIONATE ABOUT DELIVERING LIFE-CHANGING FITNESS EXPERIENCES, EVERY TIME, EVERYWHERE.

BLAH BE LOUD AND HEARD

Tell us what you think of this release. Visit lesmills.com/BLAH

CXWORX 25

From L-R: Corey Baird, Charlotte Fleetwood-Smith, Dan Cohen, Rachael Wilkins

CXWORX 25 truly allows you to take ownership of each specific exercise.

With smart programming and levels, this release gives you the ability to choose which piece of equipment or body-weight option to take, stepping you closer to successful movement quality.

With variations on Pushup Hovers, Crescent Lunges and Rotating Planks, you will be a step closer to building strength and stability. Include Around The Worlds, Corkscrews and Flutter Kicks and you'll be ticking the endurance and conditioning box, which will all help with prevention of injury.

CXWORX 25 has some incredible rhythms and fantastic contrast. The focus for the release has a strong objective around choosing the correct option and level before you fatigue, to ensure your technique is not compromised.

The CXWORX Team.

Dan Stiller

CXWORX Presenters

Dan Cohen (New Zealand) is co-Program Director for both CXWORX and BODYCOMBAT™, an International Master Trainer for BODYPUMP™, and a passionate mixed martial artist based in Auckland.

Corey Baird (New Zealand) is a Technical Consultant for CXWORX, BODYBALANCE™/BODYFLOW and BODYPUMP, and a personal trainer and Pilates teacher based at Les Mills Auckland.

Rachael Wilkins (New Zealand) is a CXWORX, BODYATTACK™, BODYBALANCE/BODYFLOW and BODYPUMP Instructor, and a LES MILLS GRIT Series Coach. She is also a Nutritionist and is based in Auckland.

Charlotte Fleetwood-Smith (New Zealand) is a CXWORX, BODYATTACK and BODYSTEP™ Instructor and a LES MILLS GRIT Series Coach. She is based in Auckland.

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Hey instructors! When it comes to mixing up past releases, please consider track length, music genre and choreography; for example, you should avoid overloading on plate work or Hover/Plank work.

HOT TIPS FOR MEMORIZING CHOREOGRAPHY

Choreography is the foundation of all LES MILLS programs. It's what allows us to deliver safe and effective classes, role-model great technique, coach, connect, and to create awesome fitness experiences every time!

It's your job as the instructor to breathe life into the Program Director's choreography. It's a big responsibility, and one that requires you to learn new choreography every 3 months. If you teach more than 1 program, the time spent learning choreography can add up FAST. Whether you've been a Les Mills Instructor for a long time or just starting your journey, use the 5 tips below to help you memorize the choreography in record time.

Hot Tip #1 – Say No to Social

To learn choreography quickly, give it your undivided attention – even if it's for just 5–10 minutes. Turn off anything that will distract you, such as email notifications or cellphones. Create an environment that will let you concentrate – away from your partner, kids and pets – and resist the urge to check social media!

Hot Tip #2 – Become a Visual Learner

Our visual senses are a powerful tool when it comes to learning choreography.

Go to 'audio settings' on the Masterclass and turn off the Presenter's voice so that you watch the video with the music only. This will allow you to focus solely on the movement and music, helping you to absorb the choreography.

Think you don't need to watch the Masterclass? OK, here's your challenge! When you learn your next release, watch the filming video first to engage your visual senses. You may be surprised by how quickly and accurately you can learn the choreography, simply by watching the video.

Hot Tip #3 – Wash, Rinse, Repeat

Listen to the music over and over again so you can identify the verses, the chorus and the bridge. The more familiar you are with the music, the easier you will find it to align the choreography with it. Pay attention to the details! A cymbal crash, a catchy lyric, a sound effect... these are all important ways to link the right moves to the right parts of the music.

Hot Tip #4 – X Marks the Spot

Dancers have one of the best techniques when it comes to memorizing choreography. It's called 'marking'.

To mark a dance means to go through the motions of the dance in a minimized way. For example, instead of performing a pirouette, a dancer might mark the move with a twirl of their fingers in the direction of the turn. Marking isn't just a way to

conserve energy while rehearsing: new research shows that marking makes it easier to learn it!

Mark the moves the next time you need to learn a new release and feel how this allows your brain and body to connect. It's not exclusive to learning dance; it works for any type of program.

Hot Tip #5 – Channel Your Inner Spock

A valuable way to help you to retain choreography for the long term is to understand the logic behind it.

For example, in a BODYPUMP Chest track we might have 16x Bottom Half Pulses, a Hold at the top for 4 counts, then a 2/2 rhythm.

To make sense of this choreography: 16x Bottom Half Pulses are meant to be challenging, which means you'll need a break. The 4-count hold at the top provides that quick rest before moving onto the next working phase – the steady 2/2 rhythm.

Try to comprehend the logic behind the Program Director's choreography. Is it a specific training stimulus they're trying to achieve, a story they want to tell, or a feeling they want to convey? If you can understand their intention, you've unlocked one of the most powerful tools to memorizing choreography.

Which of these tips do you already use?

Which tip(s) are you willing to try for the first time?

How will you use 1+ of these tips the next time you are learning choreography?

1. Warburton E C, Wilson M, Lynch M & Cuykendall S (2013). The cognitive benefits of movement reduction: evidence from dance marking. *Psychological Science*, 24(9):1732-9 PMID: 23863756.

LES MILLS GRIT CARVING INCHES OFF YOUR WAISTLINE

Abdominal fat: not only is it considered undesirable but it's also unhealthy.

An increased waist circumference is strongly associated with diabetes, metabolic syndrome, heart disease and hypertension. It's even thought to disrupt your hormonal balance. So, what can we do to get rid of the dreaded abdominal bulge?

New evidence has shown that 8 weeks of LES MILLS GRIT is the perfect way to carve inches off your waistline.

High-Intensity Interval Training (HIIT) consists of short, intermittent bursts of maximum-intensity exercise interspersed with periods of rest. LES MILLS GRIT utilizes these training methods with short but explosive workouts.

Previous research has shown that these workouts deliver accelerated changes in body composition, aerobic fitness and strength. A research team from the University of Nicosia in Cyprus wanted to know what effect combining LES MILLS GRIT Cardio with conventional training might have on our body composition and – in particular – that stubborn type of abdominal fat that interferes with our health.

The Study

Two groups of adults participated in an 8-week intervention. One group performed four regular workouts combining cardio and resistance training, while the other group replaced two of the cardio sessions with two LES MILLS GRIT Cardio workouts – and kept the remainder of the training the same.

Body composition and physical fitness tests were performed at the beginning and end of the study.

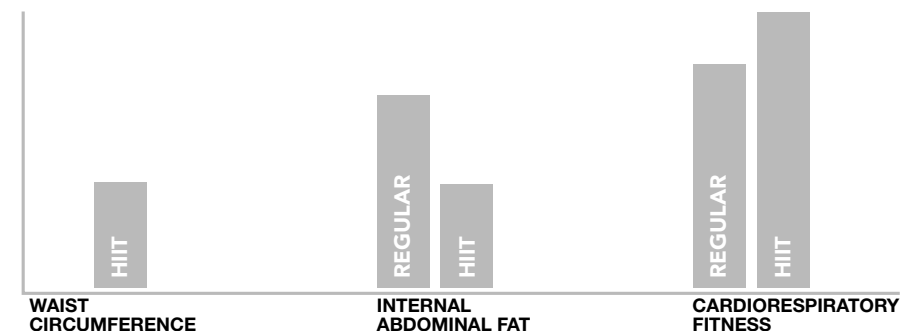
Results

The results were impressive. While both groups saw a reduction in body fat, the HIIT group experienced a much greater reduction in waist circumference and internal abdominal fat. They lost an average of 0.86 inches (2.2cm) from their waistlines, and 2.2% of the fat from deep inside their abdomen; this is the type of fat that causes serious health issues. The HIIT group also significantly increased their cardiorespiratory fitness, sprint speed and arm strength.

Conclusion

This study proves that if you want to maximize the results of your training, all you need to do is replace two of your regular gym sessions with two 30-minute HIIT workouts.

Combining these two types of training will increase your aerobic fitness, grow lean muscle tissue and amplify fat burn – and this latest study demonstrates that it will also carve inches off your waistline.



LES MILLS' RESEARCH

Features at World Sports Medicine Conference

Les Mills research reached new heights in June when the results of one of our research projects was presented at the American College of Sports Medicine (ACSM) World Scientific Congress in Boston, USA.

Bryce Hastings, LES MILLS International Head of Research presented the findings from the Group Fitness Instructor injury survey with Dr Jinger Gottschall, Professor of Kinesiology at Penn State University in attendance.

Being accepted to present at this conference is deemed to be a huge accomplishment, with only the top research projects in the field of Sports Medicine making the grade.

This achievement is a testament to the dedication and expertise of Dr Gottschall and her team at Penn State, and goes a long way towards showcasing LES MILLS programs on the scientific world stage. "We'll keep you up-to-date about this research in future releases."

THE SCIENCE OF RESISTANCE TUBING

Tubing is versatile, easy to use and inexpensive. It has a wide appeal across a range of age groups and it provides us with the ability to take a simple exercise and make it challenging.

THE MAIN CONSIDERATIONS WHEN TRAINING WITH TUBING ARE:

- The point of **MAXIMUM RESISTANCE** is different when you use tubing compared to using free weights
- Tubing allows you to provide **RESISTANCE** to movements in other directions other than straight down as we see in body weight or free-weight exercises
- There is **NO MOMENTUM** when you use tubing so it is often safer to use during quicker and large-range exercises such as Woodchops
- There are some common rules that make using tubing safe and effective.

POINT OF MAXIMUM RESISTANCE

With the Dumbbell Curl we have a small arc of maximum resistance in the middle of the curl.

With tubing, the load is quite different as it occurs at a different point, depending on the line of pull, and continues to **increase** as you move through the range.

DIRECTION OF RESISTANCE

Tubing always pulls toward the point to which it is anchored, eg by fixing the band under one foot we now have a line of pull directly against the action of the Woodchop.

The tubing allows us to stand and bear weight while providing different angles of pull to challenge the core, which allows us to produce a training stimulus in the position we need it most.

Gluteal exercises are a really important part of core conditioning. Normally we lie down on our side to work the side hip stabilizers but we can use the tubing by wrapping it in the direction needed to resist the movement and perform the same exercise whilst standing.

To adjust the amount of resistance, we can alter the tension of the band in the start position by using a shorter length across the same distance or we can use more starting length to make the exercise easier.

MOMENTUM

In exercises such as Woodchops which are performed through a large range with quite a quick tempo, momentum is a key safety issue when choosing different types of resistance.

When using free weights our muscles accelerate at the start of the movement and decelerate at the end. This deceleration phase can be very stressful on muscles and joints as the muscles need to contract eccentrically in a lengthened position.

With tubing, there is no momentum effect because the resistance keeps increasing as it moves further through the range without needing a deceleration phase. This makes tubing safer to use during wide-range faster movements such as Woodchops.

TUBING RULES

Try to keep the load on the band at all times – in most exercises we can adjust the start length to keep load on the band throughout the movement.

Always anchor the tubing firmly on its fixation point. This will help you avoid a slingshot effect and make the exercise safer for you and the people around you.

Tubing is graded from light to heavy so always try a new exercise with a lighter grade of resistance until you are comfortable with the technique. Go heavier when you can role-model perfect execution from the start.

Always keep the wrist in a strong functional position with a firm grip around the handle and the wrist slightly extended.