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CROSSFIT LIFEGUARD: ANTHONY KEMP

After a poisonous snake bite, CrossFit athlete Anthony Kemp treks 45 minutes for medical attention, flat-lines three times, receives 32 doses of antivenin and lives.

BY ANDRÉA MARIA CECIL
A rattlesnake bite nearly claimed Anthony Kemp’s life. He survived minus one limb, an amputation he calls “a paper cut.”

On Feb. 7, 2015, 23-year-old Kemp set out on a hike with two fellow Marines. They had just PR’d their back squats and felt a celebration was in order, so they drove to the Wichita Mountains Wildlife Refuge, a beautiful 59,000-acre expanse that sits about 24 miles northwest of Fort Sill in Oklahoma.

“We decided to go to a part of the preserve that we had never been to before,” Kemp recounted recently.

The goal was a tall hill about a mile out. The three men got to the hill quicker than expected, so they decided to go even farther out—to the next hill. The trio proceeded down the opposite side of the hill, walking single file. Kemp was in the middle. About 10 steps in his buddy Matt Holliday asked Kemp to take a picture of him for Facebook. The two men switched places, leaving Kemp last. That’s when it happened.

“I felt a ridiculously sharp pain in my left calf.”

Kemp felt something pierce his skin and clamp down, and he heard a hiss.

“T’S from Queens, New York, so I really don’t know shit about snakes,” Kemp said. “By the time I looked down at my leg, my calf was instantly swollen, I was bleeding, there was venom coming out of my leg.”

Doctors would later tell him he was bitten by a 6- to 8-foot-long Western diamondback rattlesnake.

“I never saw the snake.”

Kemp alerted his friends. They had to get him to an ER. One of them called 911.

“We don’t know how to find you. We can meet you at the car” is what Kemp said a 911 operator told his buddy.

Kemp would have to traverse hills, rocks, steep inclines and even the top of a dam to get back to where they had started. In that moment, he remembered one of the coaches at Radd CrossFit in New York.

“We used to joke all the time, … ‘Hey man, don’t be a pussy,’” Kemp said. “For whatever reason, I heard his voice in my head. I got up, I started taking steps.”

It would take roughly 20 minutes to get back to the car, he figured.

“As dumb as this sounds, I kind of related it back to a 20-minute AMRAP.”

He took it slow, kept moving. Five minutes in, his calf locked up. Ten minutes after that, his entire leg seized. Kemp was nauseated. He was having trouble breathing.

“It seemed like a marathon,” he said. “At this point, I’m like, ‘Wow, this is kind of bad.’”

It took him 45 minutes to make it back. A park ranger was waiting with oxygen. Kemp was in and out of consciousness.

“At this point, I’m like, ‘Oh, shit, I might die.’”

The ambulance arrived an hour later.

“The EMT took one look at me and said, ‘Holy shit, we need to get this kid on a helicopter fast.”

Ten minutes later, Kemp was on “the bird,” where he flat-lined. Once at Comanche County Memorial Hospital in Lawton, he flat-lined twice more. Medical staff gave him 32 doses of antivenin.

“His parents flew in from New York and doctors expressed uncertainty over his mortality. Kemp was transferred to OU Medical Center in Oklahoma City, about 90 miles northeast of Lawton.

“They took one look at my leg and said, ‘This has to go.”

Kemp ended up undergoing three amputations, the last one making him an above-the-knee amputee. By April 1 he was back to doing CrossFit, which he had started in 2012.

“No one really knows to this day why I survived. From my understanding, at least what they told me, no one’s survived that much venom.”

Kemp recalled that one of the doctors asked him if he had been in good shape. The venomous bite hadn’t only affected Kemp’s leg but also his organs. His kidneys, liver and lungs failed, and he suffered from rhabdomyolysis, a condition that causes muscle tissue to break down and release into the blood.

“As bad as my body was, I was still able to breathe on my own,” he said. “I had rhabdo, but my kidneys were still working to a decent level. I kind of (attribute) all that to being in shape.”

And although he’s lost most of his left leg, Kemp shrugged it off.

“It could’ve been worse,” said the CrossFit Level 2 trainer. “Every one hears that story and they think, ‘Wow, that sucks.’ I thought that, too, and then I got to Walter Reed. I was the lucky one—I only lost one leg.”

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At Walter Reed National Military Medical Center in Bethesda, Maryland, Kemp saw triple amputees who had lost so much of their limbs they couldn’t use prosthetics.

“They call single amputees ‘paper cuts,” Kemp recounted, “because at Walter Reed it’s not a big deal.”

He continued: “Shit happens. It’s that simple. You can either stay in the past or move forward.”

About the Author: Andréa Maria Cecil is assistant managing editor and head writer of the CrossFit Journal.
FIVE FROM THE ARCHIVES

Affiliate owner Chris Sinagoga talks about two articles and three videos that made him a better trainer.

BY CHRIS SINAGOGA
For me, and for many affiliate owners, being in business with- out previous experience can be overwhelming at first. So many suggestions are thrown at you daily, with each thrower claiming he’s right and everyone else is wrong. You never know whom to listen to; it’s still something I struggle with. Thankfully, the words of CrossFit’s Founder and CEO help me keep complete focus on the course to success:

“What will inevitably doom a physical training program and di- lute a coach’s efficacy is a lack of commitment to fundamentals.”

Everything in CrossFit comes back to the movements.

CrossFit affiliate owners are not in the friendship business, the networking business, the advertising business or the apparel business; we are in the business of delivering fitness. We make people move better. Building networks and friends and the like can certainly help, but coaching movement is at the core of what we do.

The bottom line is you are not a good coach unless your athletes move well without your presence. You might know a lot and be able to engage a group and come up with creative workouts, but if your athletes’ habits don’t reflect your ideals, then you are not doing your job.

Everything in CrossFit comes back to the movements. If you are looking to make your gym better, look no further than how your athletes move relative to those who move the best.

“Seasons, Sport and CrossFit”

This video filmed at a Coach’s Prep Course actually isn’t from the Journal, but it was posted as a clip on a random rest day in June 2011. On top of coaching, I was still playing college basketball at the time it came out, so Chris Spealler really had my attention. And to this day I have never seen so much great info packed into a few short minutes.

“Virtuosity” by Greg Glassman

Yo!

That is my response every single time I read this article. How can you read it and not want to go coach somebody—anybody—right away?
priorities sorted. Blending CrossFit and sport-specific training still involves a lot of experimenting and tweaking from athlete to athlete, but the principle Spealler details here is sound. In fact, I still use the chart when explaining to new athletes why I want them to continue CrossFit training in season.

Spealler also touched on a subject I feel pretty strongly about: programming—specifically the lack of certainty around it.

“We know so little about the human body, and all of us are so different, that it’s impossible for us to program for an entire team, or even an individual, for them to peak at the perfect time.”

He also shared his views on two-a-day workouts and how he thinks they actually make him “less fit.” It was a big relief for me to hear this. I still get complaints from a few gym members and outside coaches who think we need to bias programming or do more workouts. We have followed the workouts posted on CrossFit.com since we started as a school club in 2010. Programming can be debated to no end, but movement is much more concrete. I need a program that allows me to focus on coaching movement while exposing any weakness our athletes might have. I think CrossFit.com provides as close to an unbiased version of that as possible. It also gives a coach the flexibility to modify for each individual, such as an in-season athlete.

“CrossFit Kids Trainer Course: The Three Pillars” by Todd Widman

Any time I feel stuck as a coach, I always go back and read “Virtuosity” as a reminder to dig back through the CrossFit Journal archives for coaching videos relating to movement. Theory videos are great to help me to organize my thinking, and the live-coaching clips give me a great visual of how the theory looks when it’s taken from the whiteboard and applied to an athlete or class.

Many of the mobility, movement and skill-transfer videos in the Reference category of the Journal provide a great balance of theory and live coaching, but Kids is another favorite category. CrossFit Kids content has always hit home in a gym in which we coach mostly middle-school, high-school and college athletes. One of the best theory videos (linked above) shows Todd Widman explaining the challenge of coaching different age groups.

So many great quotes can be found in this video—“End what you’re doing before it’s done,” “Fun changes over time,” “Do less better”—but my favorite part is when Widman details the second pillar: quality movement.

The three major factors in movement quality at this age are the coach’s ego, the child’s ego and the parents’ egos. These are constantly at play every time I walk into my gym, and it’s helpful to hear that a coach as great as Widman experiences the same challenges.

Widman mentions good form takes time, and it is our job to create better movers. Everything else takes a back seat. I think this should be applied to every CrossFit class, not just kids classes.

“Unweighting: A Universal Concept” by Nicholas Romanov

Something about running really drew me into CrossFit. Coming from a track background, I loved the idea of mixing in 400-meter repeats with overhead squats. It was the equalizer that helped scrawny kids like me compete with the big, strong guys—like my trainer, Brian Hassler.

Mike Collins was featured in “Intro to the Pose Method for Distance Running” while I was still in high school, and I was able to use parts of the video to improve my mile and 400 times. By the time the Journal released videos featuring Romanov, I was coaching the Champions Club and extracting every detail I could out of those clips to make our kids better runners. But over time it felt like running was the outlier. All these movements were taught with a bunch of cues and techniques, while running was simply pose, fall, pull. I was starving for a demonstration of the Pose concept with other movements, and on Oct. 15, 2012, my wish was granted.

I must have watched the video of Romanov working with Dan Bailey on snatches 10 times in the first week of release as I tried to see the difference between shrugging and unweighting, how the poses matched up, and how Romanov corrected subtle errors with minimal talking.

For the past three years since its release, that 15-minute video is still all I’ve had to go on, but we have actually worked our entire teaching around the Pose Method. Cleans, pull-ups, sumo deadlift high-pulls, rope climbs and box jumps are all taught through this lens.

But it all comes back to running. The Pose concept is simply understanding the gravity hierarchy and applying it to human movement, and running is just the easiest and most transferable way to communicate the concept.
“On Elegance” by Pat Sherwood

As an affiliate owner, dozens of things are running through your mind at once. In any given two-minute period, I am contemplating how to modify a workout for an injured athlete, what mobility drills everyone will need before the workout, if we have enough 15-lb. bars for the group, how well the athletes will move the weight in later rounds, and whether or not a client will leave the gym if I stop him one more time for bad form. Everything piles up.

The simpler I can keep things, the easier it is to keep track—and I need constant reminders of this. I often get ahead of myself with individual athletes, their parents or our gym as a whole. Thankfully, Pat Sherwood gave everyone a reminder in 2013:

“Next time you need to solve a problem, explain a concept, define a term or program a workout, don’t seek an unnecessarily complicated solution when an elegant one would suffice. Pursue elegance in everything.”

If you only know Sherwood from his role on the CrossFit Games Update Show, you are missing out on arguably the best person-ality in all of CrossFit. I don’t know if anyone has a more practical and realistic sense when it comes to fitness. Sherwood just gets things. His article helps me take a step back, see what’s at the core of what I am trying to accomplish and simplify.

I use this approach while coaching movement, when thinking about programming in general and also when writing articles. The more I simplify, the quicker I see results.

Dig Deeper

You might have been involved in CrossFit when these articles and videos came out. Or you might have done your research. But can you recall all the key points of each? If not, I guarantee you are leaving something on the table.

Coach Glassman carefully contemplated every single word in “Virtuosity.” Romanov just drew on a wealth of experience to improvise on the spot while coaching Bailey. Both feats are incredible and show true mastery of craft. To be as good as the greats, we need to get inside their heads. Many of us don’t have the luxury of being in their presence all the time, but the CrossFit Journal gives us an unbelievably valuable glimpse into their brains with every video and article. It is not enough to just watch or read once; we need to study the material the same way we studied for exams in school.

Study will allow you to find small details, and those details make all the difference—just as they did in “The Shawshank Redemption.” Remember, the core of what we do is perfecting human movement. Studying the videos and articles above—and digging up others that speak to you—will give you the blueprint for doing so.

And in the process, you might stumble across other hidden gems.

About the Author:

Chris Sinagoga is the owner of the Champions Club/CrossFit Athletic Group, and his obsession with coaching CrossFit is only surpassed by his obsession with the game of basketball. Chris is heavily influenced by MGoBlog and hip hop, and he writes for the Champions Club website. Among other prestigious credentials, he has achieved certified master status in both “Pokémon” Red and Gold versions.
Older trainees can prove that aging populations need not be diseased populations.

BY LON KILGORE
I’m older than 86 percent of the Earth’s population. I’m an aging academic. I’m an aging parent. I’m an aging worker. I’m an aging trainee. And I am part of one of the largest segments of our population: 33 percent of us are over 50 years of age.

If you look at any textbook within exercise academia, you will generally find aged individuals, older individuals and geriatric populations—basically people like me—listed as a “special population.”

I do not require kid-glove treatment because of my age. I will not break in response to progressive training because of my age. I am not magically disabled simply because of my age. I am not special.

So what do people really mean when they refer to older individuals as a “special population”?

An Incorrect Association

The term “special population” is a catch-all used by academic exercise organizations to describe diseased populations that require modifications to their training, and, strangely, healthy populations that might or might not require modifications to their training other than simple scaling.

According to the National Strength and Conditioning Association, those groups most commonly assigned the special-population moniker are those that have:

- Cardiovascular disease
- Pulmonary disease
- Metabolic disease
- Immunological disease
- Musculoskeletal disease
- Neuromuscular disease
- Cancer
- Psychological/behavioral disorder

The list also includes three other groups:

- Those who are pregnant
- Children and adolescents
- Older adults

Neither pregnancy nor adolescence is a disease, and these categorizations are clearly not appropriate.

Pregnancy is a healthy biological function, although it does require some modifications in exercise practice. And although W.C. Fields might have considered children a disease, kids are anabolic little beasts who require progression and exposure to broad exercise demands. Being a kid is not a disease.
That choice to become less and less fit over time sets up the opportunity for hypokinetic diseases to gain a foothold and become statistically correlated with old age. Hypokinetic diseases are those that are associated with the lack of habitual physical activity or exercise in one’s lifestyle.

If you choose to become inactive with age, you choose to make yourself more vulnerable to disease and to be lumped into the “special” diseased group. But in reality it is the presence of disease that makes such individuals special, not age.

If you actually think about it, older couch potatoes are not special in any sense of the word. Instead, they are becoming a part of the diseased majority, the nearly two-thirds of the population who do not exercise.

The presence of hypokinetic diseases in older populations is profound. When we look at the diseases on the previous list, the frequency of occurrence in most instances appears to be linked to aging but is more strongly linked to inactivity.

When we look at the incidence of cardiovascular disease by age group, younger adult to older adult, we see a step-wise increase in the diagnosis of the disease (1). We see a very similar situation with the frequency of diagnosed pulmonary disease over the later lifespan. Further, we see an increase in the occurrence of overlapping pulmonary diseases. At age 40, about 20 percent of those with asthma will also have obstructive pulmonary disease. By age 70 that number rises to about 67 percent (2). We see similar frequency increases in metabolic disease (3), immunological disease (4), musculoskeletal disease (5), neuromuscular disease (6,7), cancer (8) and psychological disorders (9).

And this is not new knowledge. As early as 1922, the relationship between physical inactivity and certain types of diseases—those special-population diseases listed above—had been noted (10,11). The term “hypokinetic diseases,” coined in 1954, was the subject of a 1961 textbook that described diseases and conditions that had a statistical association with lack of exercise or lack of other physical activity (12). The original 1954 list of hypokinetic diseases included heart disease, obesity, diabetes, arthritis, joint problems, depression, mental disorders, back pain and some cancers.
It's easy to see how confusion creates the idea that aging is a disease process. The elderly seem to be riddled with diseases. The almost geometric increase in the frequency of hypokinetic diseases after 40 paints a rather stark portrait of my later years if I am within the norm.

But I'm not, and no one has to be.

Getting Old, Getting Sick

When we look at how many people are completely sedentary—physically inactive—we see a nearly geometric increase in the number of people over 40 who are absolutely physically inactive. This increase very nearly mirrors the increase in the frequency of hypokinetic diseases. And this is the important part: As physical activity decreases, the frequency of hypokinetic diseases increases (compare Figure 1 and Figure 2).

So we have a question: Is age directly linked to increased frequency of disease or does simply being a couch potato create a regression in disease processes, it would be very tempting to get old.

Given that fitness seems to prevent and in many instances cause a regression in disease processes, it would be very tempting to say “exercise acts as a proxy for medical interventions and then say “exercise is medicine.” Lots of other people and organizations do this, but they are simply fooling themselves and the public.

Creating fitness is not the same as prescribing a dose of penicillin. Creating fitness is its own end. It is, as CrossFit Founder and CEO Greg Glassman terms it, “non-medical health care.”

We don't need a medical or clinical degree to deliver fitness and its preventive benefits. We only need to be able to create fitness and deliver it effectively and reliably to those who need it most. That is actually everyone who does not exercise currently. But considering the previous discussion, and with reference to Figure 1, we should strongly consider ways to keep people 50 and older coming to the gym, training at home or in some way exercising regularly.

A Head-Start Program for Adults

Some bright spots exist. Although some drop out of regular training as they age, physical function and the occurrence of hypokinetic diseases in later life is affected by the actions of our younger selves. Being fit at younger ages provides an advantage in later life by establishing a base resistance to disease processes. If we are fit in adulthood, experimental data suggests we are less likely to become diabetic as we age (14). This effect can become more powerful if combined with appropriate nutritional habits.

Other research is suggestive that fitness gained in adulthood can delay the onset of age-related increases in blood pressure by about a decade (15). Hypertension is one of the important risk factors associated with developing cardiovascular disease, and it affects a large segment of society. Delaying or eliminating the onset of hypertension is valuable, and spending time in the gym training during younger adulthood seems to be an easy way to do this.

If being previously fit delays the onset of later-life hypokinetic disease, gym time in the younger years is a boon for everyone. If pre-conditioning extends the lifespan by a decade, then we can potentially cut the number of 50- and 60-year-olds who are experiencing the onset of hypokinetic diseases significantly, an effect that might decrease the severity of disease in the over-70s.
A less obvious point is that it’s never too late for anyone, regardless of exercise history, to start a journey toward fitness.

Playing Catch-Up

It is never too late to get off the couch and start training to improve strength, endurance and mobility. Although each of these elements of fitness is exclusively developed by CrossFit training, any system of exercise can be used as long as it is progressive and improves fitness in some aspect.

Being stronger is associated with longevity (20). Higher endurance is associated with longevity (21). Mobility is associated with longevity (22). Although the available research cannot prove causality here, the weight of the correlations provides us with a good sense of direction in how we should approach exercise and aging.

Get your aging self to the gym with grandpa and grandma and mom and dad—that’s the approach.

When an older adult starts training, the results can be spectacular. Strength levels can increase by 23 percent in as little as 12 weeks even in those up to 92 years of age (23). Endurance levels can increase by 16 percent in as little as four months (24). Mobility can improve, too, with a significant 62 percent reduction in falls seen after a year of training (25). And when we bundle those outcomes together, we find that not only are physical function and quality of life improved, but creating fitness in older adults also cuts the risk of disease and death significantly. Simply put, the concept that older trainees cannot adapt to training—has no merit. Similarly flawed are recommendations that old exercise recommendations are for older adults. A randomized controlled trial of exercise intervention with 3.5-year follow-up. Physiological Reports 3(2). pii: e12302, 2015.


A Different Kind of Special

If you don’t want to be part of a “special population,” don’t sit on your butt. Get to the gym. I refuse to be that kind of special. And I want the exercise industry to stop using that term to describe older adults just because of an erroneously assumed relationship between aging and disease. We need to stop the automatic treatment of the aging as feeble and infirm, and we need to end to the widespread creation of an erroneously assumed relationship between aging and death rates, then we should use methods that create those levels of fitness.


“I WANT TO BE YOUR TRAINER”

CrossFit coaches talk about building relationships that result in new clients.

BY EMILY BEERS
Joe Vaughn, the owner of CrossFit MouseTrap in Orlando, Florida, takes a similar approach. The technical cues aren't going to sell a new client, he said.

“When someone comes in and they’re brand new, many coaches try to over-coach them to impress them with their knowledge. But that doesn’t provide a good experience. When people walk through the door, they’re not going to remember the cue you gave them. They’ll remember the way you made them feel.”

Vaughn said his single biggest focus is making the client feel good.

“Sometimes I do things like count the number of times a person smiles (during the first experience),” he said. “Because the best way to make a sale is to give someone a good experience.”

To give prospective clients a good experience, Hagiya said it’s important to dig deep to get people to open up “so you understand where they’re coming from.”

She added: “If they say they want to lose weight, I’ll ask a question like, ‘Why do you want to lose 10 lb.? I think if you get to the
William Albritton (second from left) uses media to connect with people before they enter the gym.
“I explain how fitness has been my gateway to personal development and to acceptance of who I am.”

— Fernando Alcantara

Fernando Alcantara, a coach at CrossFit Long Beach in California, is another trainer who has found success getting personal with prospects.

“If someone shows interest in the gym, I will mention that I help people like the person I’m talking to. I will try to find out who the person is and what kind of problems or challenges (he or she has), and I will tailor what I do specifically to that person,” Alcantara said. “I get them talking about themselves. I try to find out some ‘pain points’ from that person.”

By “pain points,” Alcantara said he means the person’s true reasons for wanting help. People might say they want to lose weight or get fit, but that doesn’t give you their reasons for setting these goals.

“The why is the important part.”

Getting to the root of the problem is not always as easy as it sounds, he said.

“Sometimes it takes a while to get someone to open up and be vulnerable and truly let you in on why they want to be there. Sometimes it’s really personal. Or they’re embarrassed.”

Alcantara recently encountered a situation like this with a female prospect who made contact through his website. The two talked on the phone and she seemed standoffish, he explained.

“So I said, ‘What if we met in person and talked and got to know each other?’” Alcantara said. “She came in and we sat down together without any distractions, without anyone else listening in, and she started to trust me.”

She soon opened up about her pain.

“She was a slender girl, but she didn’t like how she looked. She hated knowing she could look better but does nothing about it. Her pain was that she knew she could do it but didn’t ever do anything about it. She was embarrassed by this.”

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“Sometimes it takes a while to get someone to open up and be vulnerable and truly let you in on why they want to be there. Sometimes it’s really personal. Or they’re embarrassed.”

Alcantara recently encountered a situation like this with a female prospect who made contact through his website. The two talked on the phone and she seemed standoffish, he explained.

“So I said, ‘What if we met in person and talked and got to know each other?’” Alcantara said. “She came in and we sat down together without any distractions, without anyone else listening in, and she started to trust me.”

She soon opened up about her pain.

“She was a slender girl, but she didn’t like how she looked. She hated knowing she could look better but does nothing about it. Her pain was that she knew she could do it but didn’t ever do anything about it. She was embarrassed by this.”
Never Mind the Money

Although both Hagiya and Alcantara agree the focus of working with prospective clients should be on discovering their wants and needs, at some point the prospect has to make the decision whether or not to pull out the wallet.

“It’s tough because we are trying to help people, but nothing comes for free and we also don’t want to waste our time as coaches,” Hagiya said.

She said she thinks many coaches make a mistake by assuming the prospect is going to think joining the gym is too costly.

“One thing I have learned is never assume something is too expensive for people. You don’t know their financial situation, and they might even be offended if you assume they can’t afford it,” Hagiya said.

Hagiya’s gym doesn’t list prices on its website because the hope is to show the client value before the talk about cost of training.

“We tried different things and found we have more success when we reveal the cost after we show the client the value of what we do,” she said. “The people you really want there will find a way to pay for it. I’ve had people come in who said they saved up for three months so they could join. The people who choose to spend money on their fitness see the value and find a way.”

Hagiya has also discovered she isn’t a good fit with those who don’t see the value in the training.

“The people who want a deal or a discount are always the first ones to quit. And if they do want a deal, I’ll be honest and say, ‘My buddy owns a gym down the street. It’s a bit cheaper if price is your Number 1 concern here.’”

Vaughn takes a different approach.

“We go (for) transparency. We have our prices listed on our website. That pre-screens people, and if they can’t afford it, we don’t want to waste our time,” Vaughn said.

For Alcantara, the key has been realizing he doesn’t need to sell everyone who comes through the door for an introductory line.

“Your focus as a coach should be on finding out if you can meet the prospect’s needs. And if you can’t, then you shouldn’t take their money.”

Building Trust

William Albritton is the owner of CrossFit Alexandria in Louisiana.

Like Hagiya and Alcantara, Albritton focuses on developing trust with a prospective client. For him, this starts online.

Albritton said he’s been doing what CrossFit Inc. did in its early days to build the brand: Post useful information and videos online.

“This helps people get to know and trust your brand because we’re doing that we don’t ever have to worry about being pushy or ‘salesy.’”

Albritton has had success with direct advertising that targets specific groups of people; for example, friends of people who already like the CrossFit Alexandria Facebook page.

“It acts as a screening process because these people’s friends already trust us,” Albritton said.

It’s about using the language they’re speaking. A lot of CrossFit gyms want to look cool and showcase their competitors, so they put up videos of heavy clean and jerks and snatches, and this can scare some people away.”

For Vaughn, sometimes it happens naturally when he least expects it, such as one time he was out drinking at a bar and

“More and more often these days, people who sign up tell me they have already watched our videos and were learning the movements on their own before they came in.”

—William Albritton

His main goal is to build CrossFit Alexandria into a familiar brand in his local market, he said.

So far, it’s working. Albritton said he regularly meets people around the city who see his CrossFit Alexandria T-shirt and tell him they’ve seen his videos.

“Or they’ll tell me they’ve been eating better since seeing our nutrition tip video. More and more often these days, people who sign up tell me they have already watched our videos and were learning the movements on their own before they came in,” he said.

This free content adds immediate value that a general ad cannot.

“Warming up leads before they come in is key. … A lot of gym owners look for a quick solution and a quick conversion. So they do something like run a Facebook ad saying, ‘Come sign up,’ but that’s all they do. They never warm their audience up with value first,” he explained.

Warming leads goes back to the CrossFit ideal of excellence. By showcasing themselves and their business, trainers attract clients who are impressed with their knowledge, competence and professionalism.

“A prospective client who is already impressed before speaking to a coach is much more likely to want to work with that coach, and if the trainer earns the visitor’s trust when they first meet or speak, the relationship is likely going to be successful.

“We might also run an ad to bring new people in, but we’ve also had 10 other videos that they’ve already seen, so there’s already a familiarity there. It makes converting them (into clients) a lot easier.”

Natural Selection

Though their approaches differ slightly, Albritton, Alcantara, Hagiya and Vaughn all agree that being pushy and aggressive isn’t the way to a new client’s heart.

“I’m not trying to trick people into doing something they don’t want. Sometimes I just talk to people for a while before I even mention I own a gym down the street,” Hagiya said. “It needs to come from them.”

Albritton takes the same approach: “Let it happen naturally. We work really hard on putting up our free, valuable content, and since we’re doing that we don’t ever have to worry about being pushy or ‘salesy.’”

For Vaughn, sometimes it happens naturally when he least expects it, such as one time he was out drinking at a bar and started chatting to the guy next to him at 1 a.m.

“We talked for a while and he said he was going to come to the 9-a.m. class the next day, and I was like, ‘There’s no way you’re coming.’ But we had built a good rapport between us, and sure enough, he came in the next morning, did the class and signed up for a membership.”
As with Vaughn’s 1-a.m. drinking buddy and unlikely new client, Alcantara has discovered when you let people come to you, they end up becoming great clients who stick around.

“They’re the ones who trust me as a coach. They know I want the best for them and I’m not just trying to sell them things they don’t need.”

About the Author: Emily Beers is a CrossFit Journal contributor and coach at CrossFit Vancouver. She finished 37th at the 2014 Reebok CrossFit Games.

“ Asking questions and genuinely listening to the answers, that’s how you build trust.”

—Jamie Hagiya
LOSE YOUR CRUTCHES

What's holding you back, and why do you let it?

MIKE WARKENTIN | UNCOMMON SENSE | OCTOBER 2016
The legless man in the wheelchair made a very strong point without saying anything.

On the way to the gym for a workout, I was bemoaning my situation and wishing I didn’t have to do a 5-kilometer run. My inner monologue alternated between bitching about my tight left hip and outlining the reasons I prefer power to endurance.

You know the drill. I longed for workouts involving movements in my wheelhouse, I pre-made excuses for a poor performance, and I thought about skipping the run in hopes of snatches the next day.

Then the guy in the wheelchair rolled by with a bunch of empty grocery bags as I was stopped at a light. No markets can be found in the area, so he was clearly buckling down for a long haul to his destination.

No bitching. Just getting it done.

After feeling like an asshole for a moment, I drove the final block to the gym with a much clearer head.

Of course the workout turned out to be exactly what I needed. What I suspected would be a lengthy period of suffering was actually a 5-kilometer cruise on a sunny day while surrounded—and lapped—by friends. I did my best, owned my time and got fitter. And I felt grateful that I was able to run.

As I soaked a sweat angel into the asphalt, I found it interesting that a man in a wheelchair had helped me lose my crutches.

In CrossFit—or life, for that matter—crutches are those things you use to make excuses for poor performance, absence, lack of effort, a bad attitude and so on. Crutches are your outs when your goats appear, when your rival beats your ass, when you just don’t want to try very hard but still want a good score.

Sometimes it’s a sore body part. Other times it’s stress from the kids or the pets. Or a bad sleep. Or a lack of rest days. Or age. Or the autumnal equinox. Or what the hell ever.

Crutches, in general, are whatever you lean on when you should just write your time on the board and high-five your classmates.

Don’t let whatever ails you derail you.
Adaptive athletes are proof that limitations are self-imposed only.
Crutch: “I could have gone harder but it’s my fourth day in a row.”
Crutch: “I won’t PR because I was up all night.”
Crutch: “I crashed in the third round because I haven’t eaten all day.”

Even legitimate injuries and conditions can be crutches, though truly inspiring adaptive athletes have proven that absolutely anything is possible when you refuse to give up.

I’m not suggesting you should ignore stabbing pain due to a torn knee ligament to do a squat workout.

But I am suggesting you should quit complaining and hit the bench press like you’re training with Ronnie Coleman. Remember that someone has a worse deal and a bigger smile than you do. Move some weight and celebrate with your best “Yeah, buddy!”

More than that, I’m suggesting you should get rid of all your crutches completely. Don’t let whatever ails you derail you. Simply modify the workout as needed, then put your nose to the stone. Cancel the pity party and be happy. Think only about what you can do, push as hard as you can, and earn a score you can be proud of.

Here’s a secret: No one is 100 percent.

We all have stress, soreness, bills, jobs, family commitments, flat tires, plugged drains and a pile of dirty laundry on the bedroom floor. That’s life. You can choose to use all that shit to justify a lack of effort or you can do up your chinstrap and give everything you have that day. I’d suggest the latter, and I bet taking that honorable approach will significantly improve your mood and your outlook on the next workout.

If you’re moping for any reason, lose your crutches by clicking here or entering “adaptive CrossFit athlete” in a browser.

Then head to the gym with a smile and a renewed sense of determination.

About the Author: Mike Warkentin is the managing editor of the CrossFit Journal and the founder of CrossFit 204.
“Age is an issue of mind over matter. If you don’t mind, it doesn’t matter.”
—Mark Twain

For the last two years, masters and teens have performed the same workouts at the CrossFit Games, and the schedule puts the two groups in close contact throughout the competition. Our photographers were able to watch competitors from 14 to 64 perform the same movements back to back, and their images are a testament to the power of functional movement.

CrossFit allows its youngest athletes to set themselves up for a lifetime of fitness, and it allows its oldest athletes to maintain function and even high performance into their later years. While CrossFit is tied to data, these images make it clear that fitness is also a lifestyle and an attitude, not just a number.
WEIGHTLIFTING’S REASSURANCE

Weightlifting representatives: CrossFit’s popularity behind growth and understanding of Olympic sport.

BY ANDRÉA MARIA CECIL
Of the 14 women who train as full-time weightlifters at Waxman’s Gym outside Los Angeles, 10 of them began as CrossFit athletes.

“That tells you everything you need to know as far as CrossFit and weightlifting,” said Sean Waxman, owner and head coach of the California facility. His gym reflects CrossFit’s effects on Olympic weightlifting as a whole. The training methodology’s popularity has helped drive growth and dispel misconceptions in the 125-year-old sport, said weightlifting representatives in Australia, Canada and the U.S.

“It’s a very symbiotic relationship, even at this stage where there’s no mixing of the organizations,” Waxman explained. He continued: “It’s breathed life into my business, so I’m very happy for it and grateful for everything.”

More Athletes, More Talent

Over the course of four years, USA Weightlifting’s growth has been exponential. Its Youth group, ages 13 to 17, now comprises 2,322 athletes—an increase of 140 percent from September 2012 to September 2016, according to USA Weightlifting (USAW). The Juniors group, ages 15 to 20, has grown to 1,183 athletes—an increase of 104 percent. But the largest gain has been among Masters, those 35 and older. That age group ballooned from 1,187 athletes to 3,344—nearly 182 percent.

“That’s where we’ve seen it—in the number of weightlifters,” said USAW CEO and General Secretary Phil Andrews. “We’ve seen a lot of impact from the world of CrossFit, and I think it’s been a part of—a big part of—the resurgence of the sport of weightlifting.”

Andrews, who had been serving as interim CEO since January, became the organization’s CEO in April. He had previously served as USAW’s director of events and programs for nearly three years.

“CrossFit as a whole has been welcoming to the weightlifting community,” Andrews said. “We are two different sports, but there’s a large enough crossover that it has affected us, and we’re delighted. The more athletes, the better. And the more coaches, the better.”

But, Andrews noted, it’s not just the sheer number of lifters—it’s also the talent pool that CrossFit has fostered. He named several competitive weightlifters with CrossFit backgrounds: Maddy Myers and Morghan King. Myers competed as an individual in the 2015 Reebok CrossFit Games and has since set American junior records. In August, King broke a 16-year-old American record in the snatch as a 48-kg lifter at this year’s Olympic Games in Rio de Janeiro, Brazil.

“We want more talent. We need more talent,” Andrews said excitedly. “We won a medal in Rio. We want more. … We need to have people pick up a barbell, and a lot of people are doing that through CrossFit.”

Myers and King are among multiple elite-level female athletes who have competed in CrossFit as well as national-level weightlifting competitions in the U.S. Others include 2013 Reebok CrossFit Games champion Sam Briggs, Cassidy Duffield and multi-year Games competitor Lauren Fisher.

Exposure and Understanding

Like Waxman, Kelly has found more opportunities as a weightlifting coach since CrossFit’s emergence. He coaches 10-12 CrossFit, Andrews said, has made it “a social norm for a female to pick up a barbell. And I think that’s huge for us.”

In Australia, too, participation in weightlifting has increased.

“We’re seeing steady growth year on year on the past five or six years,” said Bowen Stuart, communications manager at the Australian Weightlifting Federation (AWF).

The country always has had “pretty good” participation across both genders, he noted.

“The other thing, too, is CrossFit has broken down some of the misconceptions about weightlifting and weightlifting exercises,” Stuart said. “I suppose it’s the thing when little Johnny wants to go do weightlifting and mom and dad say, ‘Yeah, I’m part of the CrossFit community … it’s not going to have a negative effect on my child.’”

The more lifters, the better, he added.

“Just the fact that people are getting involved in sport is the real winner,” Stuart said.

Over the course of roughly four years, Damon Kelly has seen people’s interest in the snatch and clean and jerk grow. Kelly is owner of Zenith Weightlifting in Queensland, Australia, and a two-time Olympian in weightlifting (2008 and 2012).

“It’s good to have a lot more people appreciate it, a lot more information out there.”

Ellen Miller

“We need to have people pick up a barbell, and a lot of people are doing that through CrossFit.” — Phil Andrews

Ellen Miller

Maddy Myers competed in the 2015 Reebok CrossFit Games and has since set American junior weightlifting records.
Tia-Clair Toomey finished second at the CrossFit Games in July and competed in the Olympics in Rio in August.
hours per week at CrossFit Torian, home to the Brisbane Barbell Club.

CrossFit and weightlifting, he said, can complement each other.

“It doesn’t have to be one or the other. You can do both.”

In British Columbia, Canada, 70 percent of competitive weightlifters also train CrossFit, said Rachel Siemens, owner of Siemens Weightlifting and the 2016 Canadian national champion in the 69-kg weight class.

In 2011 and 2012, she was a member of CrossFit Taranis’ team that competed at the CrossFit Games. Siemens hadn’t even heard of Olympic weightlifting until she started CrossFit in 2010 at the age of 22.

“(CrossFit has) brought a lot of awareness that it’s a sport,” she said. “People don’t assume I’m a bodybuilder now.”

Siemens added with a laugh: “They still think I’m a powerlifter.”

Lacey Rhodes’ experience has been similar.

“Still when I tell people I do Olympic weightlifting they say, ‘No, you don’t. You can’t,’” said Rhodes, who competed at the 2015 IWF World Championships and is a head coach at CrossFit Outlaw North in Ontario, Canada.

Many think weightlifting means bodybuilding.

“They just don’t have an understanding of it,” Rhodes explained. “CrossFit definitely, definitely helped with the understanding of the actual sport.”

And while Siemens echoed Waxman’s statement that the two sports can have a symbiotic relationship with many athletes successfully competing in both CrossFit and weightlifting, she said there are limits.

“I don’t think CrossFitters could set a new world record (in weightlifting),” she said. “Prove me wrong—I think that would be awesome. But I think it takes a lot to set a world record.”

Tia-Clair Toomey, who this year placed second at the CrossFit Games for the second consecutive year, also competed on Australia’s Olympic team as a weightlifter in Rio.

The 23-year-old was criticized for her performance because she didn’t set any records and was not solely focused on weightlifting.

Those critics, Waxman said, are “making a big deal about nothing.”

“Look, if she was Chinese … she wouldn’t have made the team because they have a lot of great weightlifters in China. They don’t have a lot of great weightlifters in Australia. She didn’t bend any rules. The AWF had rules and she met the requirements.”

Of course, if he was Toomey’s personal weightlifting coach,

Waxman said he would have a problem with her splitting her time between competing in CrossFit and competing in weightlifting.

But at the end of the day, Toomey’s participation in both sports provides even more exposure for weightlifting, he continued.

“It’s another avenue for people who might not have seen weightlifting,” Waxman explained.

He added: “I think it’s a good ‘f*ck you’ to people in weightlifting who have a stick up their ass about CrossFit.”

For his part, Andrews said he’d like to see USAW and CrossFit work more closely.

“In terms of athlete recruitment we certainly can be helped by CrossFit,” he said. “You almost can’t demerge CrossFit and weightlifting at this point. They’re so intertwined.”

About the Author: Andréa Maria Cecil is assistant managing editor and head writer of the CrossFit Journal.
CROSSFIT LIFEGUARDS: PHIL AND MARLO BROWN

Weighing more than 500 lb. each, Phil and Marlo Brown were headed for an early death at the hands of chronic disease. CrossFit changed that.

BY ANDRÉA MARIA CECIL
She met with her family doctor, who told her she had to take the diabetes medication, and if she wanted to get off it—and avoid the other five medications—she knew what she needed to do. A year earlier, Marlo had watched her 68-year-old father die of his 10th and final stroke. He suffered from high blood sugar, as well as high blood pressure.

It was a slow go when the couple first started CrossFit, Makatura remembered.

“I was kind of overwhelmed,” he said. “I didn’t know where to start.”

Phil and Marlo could not get down onto the floor, much less get up from it. Running, squatting to full depth, jumping rope were all out of the question.

“So the Cloud 9 coaches did what every other coach at every other affiliate around the globe does: They scaled for their athletes’ physical and psychological tolerances.

Phil and Marlo ran in place instead of running outside, they squatted to a high plyo box instead of getting their hip creases below their knees, they hopped in place instead of jumping rope. For wall-ball shots, they squatted to a box, threw the medicine ball into the air and caught it before squatting again.

“Our goal was to get them to do their best,” Makatura said, “and still maximize intensity through scaling.”

Today, Marlo is running and doing ring rows, and Phil recently got his first double-under after making his first box jump at 10 inches.

“I told them, ‘Listen, just focus on that two seconds or that 5 lb. Give me those small PRs because you guys are in this for the long run,’” Makatura said he told them.

For the Browns, CrossFit has given them back their lives. No longer must they avoid the booth at the restaurant or shop at specialty clothing stores.

“These little things make our day,” Marlo said happily.

Phil, previously resigned to an existence of poor health, had once thought, “This is the life we’ve chosen. … It’s gonna get worse.”

Marlo added: “We were sitting in our living room waiting for death. I don’t know that we’d be alive.” They could have ended up in an electric scooter with atrophied muscles—like so many of Phil’s relatives—or suffered a long, miserable death at the hands of one chronic disease.
or another, they said. “Either we would have died from a heart attack or I would have killed us from falling asleep (while driving),” Phil said. “Now he’s wide awake all the time,” Marlo noted cheerfully. And their CrossFit experience has evolved: It’s now more than just a way to shed pounds. “I have goals for myself when it comes to working out instead of just losing weight,” Marlo said. “Seeing what I do here, I want to do better at these things.” She wants a rope climb and a pull-up instead of those pesky ring rows. Phil is working to improve his squat and recently tried paddle boarding for the first time. “They’re the epitome of what CrossFit really is,” Makatura said. While CrossFit Games athletes are admirable for their athletic feats, Phil and Marlo have embodied the definition of fitness, he noted. “Increasing work capacity—that’s what they’ve done,” Makatura continued. “I’d rather have 100 Phil and Marlos than 100 Rich Fronings. Even though Rich Froning’s a sexy stud, their ability to overcome adversity is second to none.”

About the Author: Andréa Maria Cecil is assistant managing editor and head writer of the CrossFit Journal.
AN OPEN LETTER TO THE "MET-HEADS"

Are you addicted to met-cons to the detriment of overall fitness?
sentiment ignores the words of CrossFit Founder and CEO Greg Glassman, who outlined the big picture with respect to weightlifting in “What Is Fitness?”: “The benefits of weightlifting do not end with strength, speed, power, and flexibility. The clean and jerk and the snatch both develop coordination, agility, accuracy, and balance and to no small degree.”

That bit of wisdom is also part of the “Level 1 Training Guide.” All this means little to those drunk on met-cons—the “met-heads.”

You’re a member of this gym subgroup if you dislike, avoid or simply see no point in strength work, to include heavy, low-rep powerlifting and weightlifting movements.

If you are a met-head, you generally hate the following:

• Any lifting workout involving singles, triples, fives or eights.
• Any workout that involves rest between heavy efforts.
• Any load above about 95/65 lb.
• Any heavy variation of a Girl workout.
• The phosphagen system.
• Efforts lasting less than two minutes.
• CrossFit Journal articles by Bill Starr.
• Powerlifting and powerlifters.
• Weightlifting and weightlifters.

If you’re a met-head, you’re likely offended already, but read on before missing the point and dumping an under-developed opinion on Facebook.

No one is saying conditioning workouts are bad. They are very valuable in developing fitness.

What I’m saying is that if you are part of a CrossFit program but avoid lifting workouts, you are missing out on a significant portion of the program and will not get as fit as you could have had you but grabbed a heavy barbell once in a while.

Yes, we know you feel like you didn’t accomplish anything on deadlift day.

It’s very clear you’re unhappy that you are not out of breath and dripping with sweat.

We’re just going to lie here on the rubber with shaking legs while you head over to the corner to bang out 100 burpees for time.

We’ll even start the clock if you feel the need to hit a quick Fran.

But we’re wrecked from heavy day, so please don’t ask us to join you.

Here’s why: You’re part of a CrossFit program.

Conditioning is a big part of CrossFit. Many workouts done in CrossFit gyms and programmed on CrossFit.com cause you to sweat heavily, breathe hard and collapse on the floor at the end. These workouts range from relatively short tests such as Fran to longer challenges such as Cindy, and many Hero workouts take athletes into time domains past 20 minutes.

Among the benchmark workouts, you’ll find a CrossFit Total containing pure strength work in the form of three max lifts, but CrossFit’s most well-known benchmarks tend to be tests of conditioning more often than tests of absolute strength. Perhaps that causes many people to define CrossFit with the likes of Helen, Karen and Annie and actually apply the term “CrossFit workout” to any challenge that makes the lungs burn.

While it’s true that Fran is one of CrossFit’s signature workouts and great test of certain aspects of fitness, it’s but one part of a program that emphasizes constant variation and competency in 10 areas of fitness.

From CrossFit’s “Level 2 Training Guide and Workbook”: “While people sometimes characterize CrossFit by the mixed-modal workouts for time (‘met-cons’), this is a limited view. Days devoted to strength training are an essential variant of CrossFit and are also ‘CrossFit’ workouts.”

“In fact, the “Level 2 Training Guide and Workbook” presents an analysis of a month of CrossFit.com programming from December 2015. Of the 23 workouts, six were heavy days—about 25 percent.

These workouts might appear to be strength work only, but that

If you are part of a CrossFit program but avoid lifting workouts, you are missing out on a significant portion of the program and will not get as fit as you could have had you but grabbed a heavy barbell once in a while.
“Have we done enough Frans today? Maybe one more for the road?”
As a met-head, you have a faint but still-present connection to the long-slow-distance mentality that says longer and more are better and you aren’t training unless you’re breathing hard. Long workouts are absolutely part of CrossFit, and you most definitely need to do longer aerobic efforts such as a 10-km run from time to time. “More” is also required at times—such as when you tackle a challenging Hero workout and test your endurance and stamina with a large amount of reps.

Some athletes who are lacking in endurance—count me in this crowd—would do very well to spend some extra time running, rowing or swimming. That’s called “targeting a weakness,” and if it’s done properly, it will result in greater overall fitness. But, in general, longer and more are not “better” in the CrossFit world; they are only part of the constantly varied CrossFit world.

CrossFit’s Third Fitness Standard (also outlined in “What Is Fitness?”) states that total fitness demands training in each of three metabolic pathways: phosphagen, glycolytic and oxidative. The first, the phosphagen system, is trained predominately with efforts of about 30 seconds or less—think sprints, weightlifting, powerlifting and short maximal efforts. Ignore this metabolic pathway at peril to your overall fitness.

A common complaint from a met-head after a 3-rep-max deadlift: “I don’t feel like I got a good workout.” Compare that to the athlete who’s quivering on the floor after grinding her way through 3 very heavy reps that took a piece of her soul.

Here’s some perspective: Many lifters get the “Fran feeling” in their stomachs before a PR attempt because they know the effort is going to take everything they have. Others look at a racked barbell that’s bending under the weight of an upcoming squat attempt and get the exact same butterflies you get before a run at a 5-km PR.

After a maximum effort on the barbell, many lifters are utterly taxed—physically, emotionally and spiritually. They’re completely done and badly in need of some couch and Netflix while the body and mind recover. That single deadlift was so challenging and stressful that they need no other fitness training for the day. Believe it.

As a met-head, you likely won’t experience that because you don’t put in maximal effort on strength days. The same way a lifter might merely try to survive a long run by putting in the work but not pushing very hard, you seek to survive strength work by avoiding safe but heavy loads that would truly challenge your strength.

By short-circuiting strength work—or by avoiding it altogether—you receive few or none of its benefits and consequently see no value in it. And so you avoid it. It’s a vicious circle.

“The solution is simple: Lift something heavy once in a while as part of well-programmed CrossFit training. You don’t even have to do it very often—maybe about once a week or so. Doing so will not affect your conditioning, and you certainly don’t have to enjoy it as much as you enjoy the crunch of leaves underfoot during a 5-km trail run in autumn. You just have to do it with the knowledge that you’ll be fitter for it.

In fact, we’ll join you on that trail run if you come by the gym and work up to a heavy deadlift triple first. We’ll chalk up, rattle a few plates as a group and then cheer you on as we try to keep up with you.

And we’ll all get fitter together.”

About the Author: Mike Warkentin is the managing editor of the CrossFit Journal and the founder of CrossFit 204.
Peter Dreissigacker of Concept2 instructs athletes how to adjust their strategy on rowing workouts for meters or calories.

BY EMILY BEERS
Concept2’s ergometer monitor has a built-in algorithm that was designed to mimic the fluid resistance of a rowing shell going through water, Dreissigacker explained. This means a monitor on the meters setting—as opposed to the calories setting—forces a rower to work really, really hard to increase his or her speed, he said.

“That’s what happens when you’re in a boat. It’s because of the drag on the water. This means you put a whole lot more effort in and you go just a little bit faster.”

Thus, rowing 500 meters in 1:45 can make you feel like you’re going to die, while going just five seconds slower over the same distance barely hurts at all, he added.

When you’re competing in the sport of rowing, it makes sense to go as hard as you can because the only goal is to move the boat faster—or to get the best possible time on the ergometer—but using a rowing machine during a multi-modal CrossFit workout changes the game completely, Dreissigacker said.

“The way the ergometer is designed … throws a wrench into CrossFit competitions, as it has created this whole dilemma of ‘how hard do you go?’” Dreissigacker explained.

To illustrate the point, Dreissigacker put together a theoretical graph that uses wattage and time to compare the ergometer to power cleans. Dreissigacker admitted his graph isn’t perfect as it doesn’t take a person’s body weight into consideration, nor does it consider the “internal efficiency of a person’s body,” he said. Limitations aside, Dreissigacker is confident the graph accurately highlights the effort-to-reward ratio when comparing rowing to power cleans.

**Investing Wisely in Meters**

Peter Dreissigacker is the founder of the rowing company Concept2 Inc., a business he started with his brother Dick back in 1976.

Jonathan Burns remembers the soul-sucking pain of a 2-kilometer ergometer test.

His best score in his rowing prime was 5:56—an all-out effort that left him in a physical shambles, he said.

“I would be lying there recovering for two days after a 2-kilometer test,” said the former college and national-team rower and current owner of CrossFit Coeur D’Alene in Idaho.

“We would taper before them, and then you couldn’t do anything after. We’d be shot. Maybe we’d go for a light paddle the next morning, but that was it.”

All high-level rowers can relate to Burns’ experience. It’s incredibly difficult to recover from a 100 percent rowing effort, Burns explained, which is why most training days are spent working at intensity levels below an athlete’s capacity.

Burns remembers doing a common workout in training: three 2-kilometer pieces on the ergometer with approximately five minutes of rest between each. Burns said he would usually hold somewhere between 6:03 and 6:10 on the pieces. While the workout is challenging, it wasn’t that difficult to recover, he said. Often, it was even followed by a second row later in the day, he added.

Think about that: A 2-kilometer row in 5:56 left Burns a physical mess for two days, yet he could maintain a pace seven to 14 seconds slower for three consecutive pieces. And he could recover to train a second time that day.

If about 10 seconds is the difference between life and the edge of death on the rower, what does that mean for CrossFit workouts? Consider Jackie: a 1-kilometer row followed by 50 thrusters and 30 pull-ups. Do you hit the row hard and risk imploding to be first on the barbell? Or do you sandbag the row and come off fresh knowing you can make up time on the thrusters and pull-ups?

**For meters or calories? Evaluate the workout carefully and choose the strategy that will allow you to complete it quickly.**

**“Going faster makes it exponentially harder, and the effort level isn’t worth it for five seconds over 500 meters.”**

—Jonathan Burns
Wise coaches will tell you that you often can't win a workout on the rower, but you can certainly lose it if you aren't careful.
"The graph illustrates that as the athlete's power increases, the time to complete the rowing segment decreases, but not as fast as with other movements, like a power clean in this case," he said.

In other words, you'll save more time by working hard on power cleans than you will on the rowing machine. For example, slacking off to a 70 percent effort during power cleans will hurt your overall time in a workout far more than slacking off during a 500-meter row, Dreissigacker said.

"If you're doing a workout (on the ergometer) and you're capable of doing 300 watts and you decide, 'OK, I'm going to do 200 watts,' you're only going to lose 15 seconds. But if you're doing power cleans and you can do 300 watts and you go down to 200 watts, you'll lose 40 seconds," he added, referencing Figure 1.

Applying this information to get the best time on Jackie, you might complete the 1-kilometer row 10 to 15 seconds slower than your best all-out effort, ensuring you come off the rowing machine relatively fresh and ready to pick up the barbell right away.

If you row too hard, it might take you 15 seconds just to stumble off the machine and another 15 seconds to recover enough to consider picking up the barbell. On top of that transition time, you'll likely have to slow your thrusters and break more regularly, causing you to add more seconds—or minutes—to your overall time.

Jackie clearly illustrates the point Dreissigacker made with his graph: You're better off slowing down the rowing and hitting the thrusters at 90 percent.

Burns—a CrossFit Rowing Specialty Course coach—doesn't need a graph to explain Dreissigacker's conclusions about the best way to approach a row in most multi-modal CrossFit workouts. He's learned from experience in the sport, he said.

"Going faster makes it exponentially harder, and the effort level isn't worth it for five seconds over 500 meters. So I definitely use the row portion of the workout just to catch my breath."

Of course, the fitter you are, the faster your "comfortable" rowing pace and the lower your overall workout times. Fit, intelligent athletes will know the pace they can maintain in advance of work off the rower, and they won't be rattled when a rival pulls 500 meters in 1:28 and leaves the ergometer first.

What About Calories?

When a row is measured in calories, it's a different story for a CrossFit athlete, Dreissigacker said.

"If the work is done in calories, it's not the same game as if it's done in meters because the calories don't have the same effect as the meters," he said.

He added: "The calorie setting is about as scientific as we can be without plugging in all the individual factors, like body weight and metabolism speed. It ends up being a unit that resembles calories somewhat and is consistent for everyone."

The calorie setting on the ergometer doesn't take water resistance into consideration the same way, so calories are earned differently than meters. On a practical level, the calorie setting rewards athletes for pushing harder. And much more time can be made up when the row is for calories, Dreissigacker said.

To emphasize the point, Dreissigacker again used a graph, this time comparing calorie rowing to power cleans. The result: The two movements look quite similar in terms of effort-to-reward ratio (see Figure 2).

"This means you're probably better off pushing the rowing portion..."
of a workout) a little harder on calories,” he said.

When the ergometer is set to calories, lower levels of effort cost the athlete time and actually force him or her to row farther than the barbell work. (Source: Peter Dreissigacker)

Consistent Pacing
Finding your perfect rowing pace for a CrossFit workout is a learned skill, Burns said.

Rowing’s Relevance
While Dreissigacker, Burns and Crosby all emphasize the importance of learning to pace to avoid obliterating yourself during a CrossFit workout, they also reiterate that you can still work hard on the rowing machine. When you improve your rowing mechanics and efficiency, as well as your endurance, power endurance and overall capacity, your 80 percent effort during a multi-modal CrossFit workout will also improve, Burns said.

The point is rowing is still important for a CrossFit athlete.

“It’s just that you’re usually not going to win the workout with the row,” Burns said.

But if you don’t row with intelligence, you can definitely lose it on the row.

About the Author: Emily Beers is a CrossFit Journal contributor and coach at CrossFit Vancouver. She finished 37th at the 2014 Reebok CrossFit Games.

Figure 2: Time to complete a 500-meter row, 30-calorie row and 20 175-lb. power cleans at increasing power outputs. Note that an athlete rowing a 1:30 pace will accumulate the total calories about three minutes faster than an athlete rowing at a 2:10 pace. The second rower will have to cover an additional 1,421 meters.

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The power-clean wattage is calculated from foot-pounds per second. Rowing wattage from monitors:

- 500-m row
- 20 reps of 175-lb. power cleans
- 30-calorie row

He suggested athletes need to know what 100 percent effort feels like so they can determine other levels of effort.

“It comes down to becoming familiar with your paces from a time-domain standpoint,” he said. “For instance, if I know my 2-kilometer time is seven minutes, then I can hold a 1:45 500-meter split for seven minutes. So if I’m doing a workout in the five-to-10-minute time range, then I can expect (to use that number) to figure out my pace for that workout.”

For example, Christine consists of 3 rounds of a 500-meter row, 12 body-weight deadlifts and 21 box jumps. If you know the workout will take you to 10 or 12 minutes, then you need to know your comfortable rowing pace for 12 minutes so you can aim to hold that pace for all three 500-meter pieces during Christine.

“Get to know your paces in both the meters (setting) and the calories (setting) and apply that to a (multi-modal) workout of a certain time,” Burns said.

Josh Crosby is a former world-class rower who has devoted his life to teaching others how to pace themselves on indoor rowing machines. He co-founded and runs the Indo-Row program, a coached 50-minute group-class rowing workout. Indo-Row uses Waterrower Gx indoor rowing machines similar to Concept2’s ergometers, Crosby explained.

The key to staying on the machine for an entire 50-minute class comes down to understanding how fast you should go during short intervals and longer endurance pieces, Crosby said. It generally comes down to finding a consistent pace to hold throughout any given piece, he added.

A world-class rower can close his eyes and hold virtually the exact same split time stroke after stroke for 30 minutes, Crosby explained. While that kind of precision is uncommon, Crosby hopes his athletes can become as consistent as possible.

“We talk a lot about flying and dying—meaning going out too hard and crashing. We don’t want that. The number one thing is when you’re watching your split time, try to hold that same split over and over and not let it fluctuate up and down.”

—Josh Crosby

“The number one thing is when you’re watching your split time, try to hold that same split over and over and not let it fluctuate up and down.”

—Josh Crosby

“No matter what distance you’re asked to row, you should have an idea of your fitness capabilities. You should never think, ‘Oh my gosh, I’m obliterated. I feel like I need to stop.’ You should never feel like you need to stop. You need to learn to control your exertion levels.”

About the Author: Emily Beers is a CrossFit Journal contributor and coach at CrossFit Vancouver. She finished 37th at the 2014 Reebok CrossFit Games.

“Repeating the same workouts a few times also helps,” he said.
Pat Sherwood explains why going unbroken isn’t always possible—or smart.

BY PAT SHERWOOD
Example 2

3 rounds for time of:
30 wall-ball shots (20/14 lb.)
20 toes-to-bars
10 front squats (225/155 lb., no rack)

I attempted this workout as prescribed but the plan changed quickly. A 225 front squat for reps is never “easy” for me, but it is realistic. I knew that even if it was possible to do the first set unbroken, it would not be wise. So my plan going in was 5-5 or 4-3-3 with short rest to complete the opening round.

I did the wall balls (which I despise), then the toes-to-bars (broken), then power-cleaned the barbell. Immediately it felt like the heaviest 225 lb. I had racked in a while. I knew the 5-5 plan was out the window. Maybe it was the wall balls, maybe the toes-to-bars, or maybe I simply overestimated my fitness. Whatever the reason, I had to deviate from my plan to knock this out “as RX’d.”

Moving to Plan B: 4-3-3. I did 4 front squats and dropped the bar. I was also more out of breath than I expected. When I felt ready, I set up on the bar and hoped for a power clean, but it turned into a squat clean. Let me clarify: It turned into a failed squat clean. I was ejected about 3 feet back from the barbell. Right then and there I saw the writing on the wall and dropped the loading to 205. I completed the workout, and it was miserable.

I posted the workout on Instagram—which is required as far I know. Someone I don’t know posted a comment with two questions: “If you couldn’t do 225 for 10 easily then what is the point of putting it last in the workout? What’s was (sic) the goal of this wod?” I did not respond because who wants to type that much on a phone? However, the questions made me see that perhaps some people don’t realize there are many different ways to program workouts for a variety of goals.

Let’s take the first question: “If you couldn’t do 225 for 10 easily then what is the point of putting it last in the workout?”

Doing something unbroken does not necessarily mean you will do it faster. If the goal is to accomplish the overall task as efficiently as possible, then that is the goal—not doing it unbroken.

“But what if I can’t do it unbroken?”

From time to time, I hear this posed as a legitimate question from athletes as they read over a workout description. They look at the movements, the loading and the rep scheme. They assess their current capabilities. Quick math is done in their heads. Their facial expressions change and the question shoots out of their mouths: “What if I can’t do this unbroken?”

My answer is always, “Well, then break it up.”

I’m not sure when going unbroken became “a thing” or how many athletes the mentality affects, but I’ve heard the question asked often enough that it should be addressed. I will highlight the two most recent workout examples that pop into my head:

Example 1

CrossFit Linchpin: Test 5

For time:
20 back squats (225/155 lb.)
2-mile run
20 back squats (225/155 lb.)

When I posted this workout, the “what should I do if I can’t do the squats unbroken?” question was asked several times. I let people know the workout description did not call for unbroken squats. But somehow the need to avoid racking the barbell entered their heads. Perhaps all of us normal folks follow too many CrossFit Games athletes on Instagram and therefore put unrealistic/unnecessary expectations on ourselves. Maybe the pressure is coming from somewhere else. I can’t pinpoint the source, but it’s out there.

I let people know that even though I could perform the squats unbroken for this workout—at least the first set—I had no intention of doing so. For me, stringing together 20 back squats at 225 would be so taxing that it would destroy my 2-mile run and therefore lead to a slower overall time. If memory serves, I did the first 20 reps as 6-5-3-3-3. I made sure to take very little rest between the sets, and then I was off on the run. The final set of squats was broken up even more.

I could’ve done the final set of 20 as maybe 10-10 or even 15-5. However, I would have had to slow my run down to a non-challenging pace or run fast and then stare at the barbell for 90 seconds before doing my first squat.

Doing something unbroken does not necessarily mean you will do it faster. If the goal is to accomplish the overall task as efficiently as possible, then that is the goal—not doing it unbroken.
With gymnastics movements, pushing close to failure to go unbroken is seldom a good idea.
Round 1, the following two rounds were supposed to feel like a trip through hell. Nothing about this workout was ever designed to be easy. I truly thought I was going to be able to do it as prescribed, but that was not the case. Scaling the loading to 205 allowed me to finish the workout, but even then it was not unbroken. Not everything has to be unbroken and easy from Round 1. Sometimes a workout is designed to be unbroken and super fast, but that was not the case here.

Question 2: “What’s ... the goal of this workout?”

My short answer: fitness. A slightly longer answer: I wanted to hit the legs with a fast high-rep movement like the wall-ball shot, then tax the midline and grip through the toes-to-bars, and then challenge the athlete’s legs again—also attacking the midline and grip—with some miserably heavy front squats from the floor.

If a movement is in your wheelhouse and you have the fitness to continue afterward, go unbroken.

Truly being fit means being well rounded, versatile, highly capable and ready for anything. Sometimes life throws challenges at you that are much harder than you anticipated right from the first second. Not all of life’s tasks are like that, and so not all of our workouts are like that. We strive to expose ourselves to as many loadings, time domains, rep ranges, pieces of equipment and other factors as we can. This workout was just a singular piece in a very large puzzle laid out over weeks, months and years.

Going unbroken on a single movement or entire workout is almost never required unless the workout specifically demands it. Workouts like that are rare. Going unbroken might or might not be the fastest or most efficient way to accomplish the work. If you cannot do something unbroken, please do not feel pressure to do so. Managing your personal tolerance of work-to-rest ratio will yield the greatest results for you.

If you can’t do something unbroken, don’t.

About the Author: Pat Sherwood is an analyst on the CrossFit Games “Update Show.” He is also a CrossFit Media project manager as well as a former flowmaster. He’s done just under 200 seminars all around the globe for CrossFit Inc., and competed in the 2009 CrossFit Games. He hates HSPU and loves ice cream.
Carbohydrate Selections: The Right Carb for the Right Job

Whole, unprocessed carbohydrate sources have significant health and performance benefits that might go unnoticed with macronutrient counting. For example, a doughnut and an orange can both provide the carbohydrate grams one needs, but other constituents should be considered. Even honey has more health value compared to table sugar due to the vitamins and minerals it contains. This brief describes some of the factors to consider when selecting carbohydrates, including total carbohydrate grams. While the brief is not meant to be exhaustive, this information can help someone make more optimal choices based on needs and goals.

When selecting a carbohydrate, consider these components:
- Total carbohydrate (for body composition)
- Non-caloric constituents (for health)
- Fiber (for satiety)
- Glucose vs. fructose (for recovery)

Total Carbohydrates and Body Composition

The first consideration is how many grams of carbohydrate are in the selected portion and what percentage of your daily allotment this represents. Consistently overeating carbohydrates, regardless of the source, can stymie health and performance goals. (Consumption of too much protein and fat will also affect health and performance. The body preferentially uses carbohydrates and proteins for energy, with fat being stored until the carbohydrate and protein have been metabolized.) A bottle of juice can often have 50-plus grams of carbohydrate, which might represent a very high percentage of daily intake for someone who is aiming for 150 total grams in a day. A simple question can help with selections: “Do I want this food to represent X percent of my carbohydrate allotment for the day?”

Non-Caloric Constituents and Health

Micronutrients (vitamins and minerals) and phytonutrients (plant-based compounds believed to promote health) do not provide significant calories but have long-term beneficial effects on health and performance. Bruce Amos has put forth a “triage” theory relative to chronic disease: Vitamins and minerals in short supply (i.e., a deficiency) will be preferentially used for immediate needs at the expense of longer-term health. This presents a rationale for eating nutrient-dense foods even when current health and performance markers are favorable.

A total of 13 vitamins (water and fat soluble) and 14 minerals (macro and trace elements) are required by humans. These include micronutrients such as magnesium for ATP production, iron for oxygen delivery and vitamin E for its antioxidant capacity. Phytonutrients such as resveratrol in wine and curcumin in turmeric have been linked to anti-oxidizing and anti-inflammato-
tory effects. Thousands of phytonutrients exist, with the effects and potency of many unknown. The closer a food is to its natural form, the higher the concentration of micronutrients and phytonutrients. Industrial processing strips these elements and potentially adds dyes and chemicals with unknown long-term effects. Processing typically also adds “empty calories”—such as more sugar—without micronutrients and phytonutrients. The empty calories represent a lost opportunity to maximize health and performance.

Recovery: Glucose Vs. Fructose

Although this explanation is a bit simplistic, it will suffice for our purposes: Dietary carbohydrates become either glucose or fructose for metabolism. Plant-based foods—specifically vegetables (green and root), legumes, nuts and grains—are primarily chains of glucose molecules linked together in various ways (e.g., cellulose and starch).

Fruit contains fructose and glucose in approximately equal proportions. This is why fresh fruit and table sugar are similar. Essentially, they both contain 50 percent fructose and 50 percent glucose, with some variation based on source. Fruit and foods with added sugar contain fructose. Generally, everything else is glucose (or converted to glucose; i.e., galactose in dairy).

Post-workout nutrition is low priority for the recreational CrossFit athlete working out once a day. For this type of athlete, the potential gains from post-workout nutrition are easily surpassed by greater attention to the workout itself and nutrition throughout the day. The greater an athlete’s volume, the greater the need to dial in post-workout nutrition, largely because of the decreased time to refuel with regular meals for the next session.

Choosing the Most Optimal

While spinach and kale are low in carbohydrate load, high in fiber, and offer a dose of vitamins, minerals and phytonutrients, they might not be the most optimal choices at all times.

For example:
- Variation: The greater the diversity in one’s diet, the greater the diversity in the micronutrients and phytochemicals consumed. It is best to rotate whole food sources to maximize coverage across all nutrients.
- Realistic: Excessive consumption of (green) vegetables to meet carbohydrate needs is uncomfortable at best, if not impossible or even stressful for the digestive system (assuming consumption of more than 100 grams of carbohydrates per day).
- Mass gain/compressed feeding window: Those looking to gain weight might specifically try to avoid fiber and target carbohydrate-dense foods simply to achieve daily targets. Others might employ the same strategies when eating in a compressed window (e.g., fasting).
- Performance: Athletes might find increased performance when incorporating lesser-quality sources specifically near workout times. Quickly absorbed nutrients can aid the recovery process, so it is more appropriate for someone doing multiple sessions a day, endurance athletes, and/or individuals with the more important aspects of their diet already dialed in (such as consistently eating quality foods in known quantities).
- Enjoyment: Many people find enjoyment in some treat that cannot be justified based on its ingredients. And that’s OK! Dietary indiscretions can serve as sources of motivation for adherence and can be part of social enjoyment.

Overall, various carbohydrate sources can be “optimal” in different contexts based on these factors. It is generally best to select the majority of one’s carbohydrates from a wide variety of whole, unprocessed foods. These foods are the most nutrient dense and offer an array of nutrients that can optimize long-term health and performance, but they are not necessarily calor- iedly and often inadvertently reduce total caloric intake by making people feel full. However, individuals can optimize choices to meet needs and even fit nutrient-poor and/or carbo-
hydrate-dense items into a varied diet based on whole foods. The “right tool” can be selected for the right job without blanket descriptions of “good” or “bad” for specific carbohydrates.

About the Author:
E.C. Synkowski is a Flowmaster for CrossFit Inc. Seminar Staff and has worked at more than 200 seminars. She is the Program Manager for the Training Department and is pursuing a master’s degree in human nutrition and functional medicine (anticipated completion in 2017).