BRINGING SAFETY TO THE STREETS!

2023 HEALTH AND SAFETY CONFERENCE

Mobility is the Key to a Happy Career

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HEALT

OFFICERS ASS

Presented by:

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- Firefighter and Training Officer for the City of Madison, WI Fire Department. Firefighter/ EMT for over 20 years.
- Certified (NASM, Ace Peer Fitness, NSCA CSCS, PN1) and degreed Personal Fitness Trainer with 30 years experience.
- Trained with elite athletes for the NBA, NHL, and NFL
- Better Every Shift Podcast
- Owner of Fire Rescue Fitness
- Contributing Writer for Firehouse Magazine (Expo and World), Lexipol, FR1...
- Thank YOU! www.FireRescueFitness.com





Who are you?

- Firefighters?
- Medics?
- Chiefs/ Captains?
- Trainers/ Doctors/ Athletic Trainers?
- Are you suffering from injuries/ aches/ pains?
 Please ask questions...





What we want to learn today?

- WE NEED TO GO HOME...HEALTHY!
- What is Mobility vs Flexibility
- Mobility and Injury Prevention
 - Functional Movement Screen?
- Movement and Mood
- Benefits of being mobile (Performance)
- Functional Training for the Fireground
- How to Improve Mobility
- Q and A



WE ARE GOING HOME... BUT

CANCER INJURIES HEART INJURIES PTSD

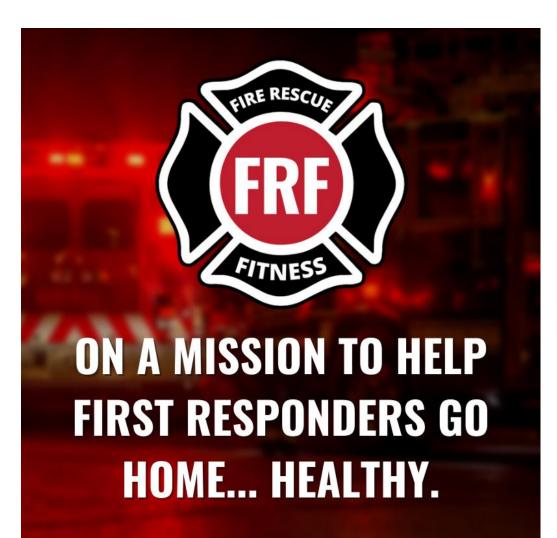




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STROKE OBESITY DIABETES ADDICTION INJURIES





USE DATA AND RESEARCH TO FIND USABLE SOLUTIONS





MOBILITY vs. FLEXIBILITY

- Mobility is the ability of a joint to move freely through a full range of motion without pain or discomfort.
- Flexibility is the ability of a muscle lengthen fully.



Flexibility (Passive)

Mobility (Active)





MOBILITY 101

Mobility = active control of joints (strength, balance, coordination)

Without the ability to move your joints into the positions needed to squat to the floor to do a search, to reach overhead to raise a ladder, to twist to move a patient, you will get injured.



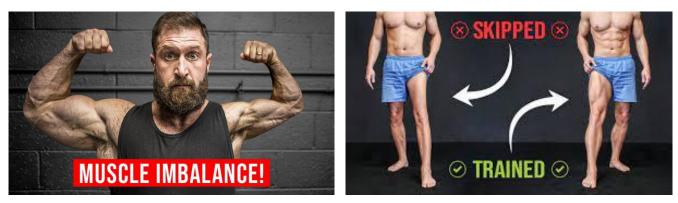




MOBILITY AND INJURY

When an athlete lacks mobility, they are more likely to suffer from muscle imbalance. And, according to Gray Cook, one of the world's most respected injury prevention specialists:

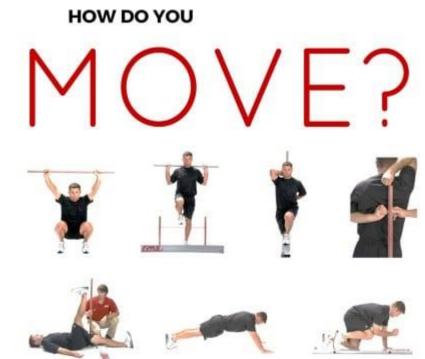
The primary cause of athletic injuries is neither weakness nor tightness, but rather, muscle imbalance.





FMS for Fire?

- The Functional Movement Screen (FMS) was developed to help identify people that might be at risk of injury or have weaknesses that may impact performance.
- Is it a good test for firefighters?
 - Yes and No (mixed research)
 - Cost effective (?)
- Use as a resource for education

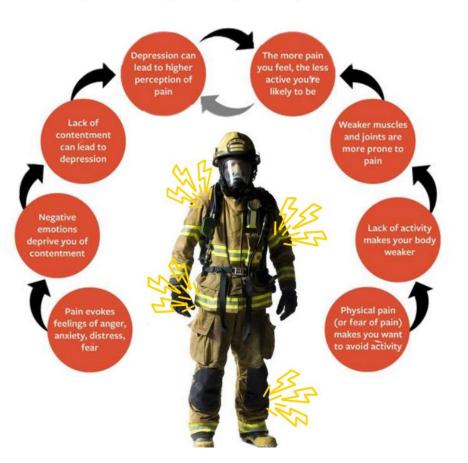




Mobility and Mood

- Your mind, mood, and mobility are intrinsically linked. (HARVARD HEALTH)
- Lack of mobility can lead to injury and pain.
- Injury and pain can lead to depression.

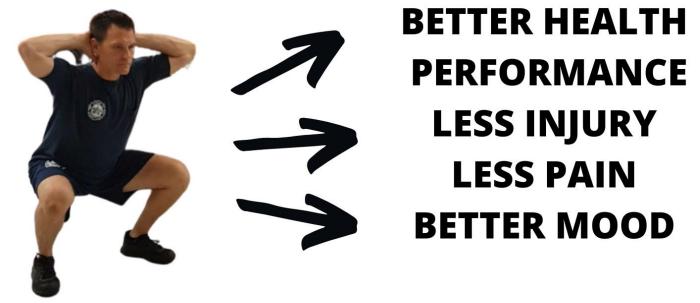
Physical/Psychological Cycle of Pain





IN CASE YOU MISSED IT.

BETTER MOBILITY



THE BETTER YOU MOVE, THE BETTER YOU FEEL!



How much do you bench...?

WE NEED TO FOCUS ON MOVEMENT!











What is Functional Training?

"Training the body for the activities performed in daily life". -Mayo Clinic





Our Playing Ground "daily life" WHY WE NEED TO BE MOBILE!





Fire/Rescue Ground Motions

- Lifting
- Crawling
- Pulling
- Hoisting
- Carrying
- Dragging
- Climbing
- Slamming (sledge)
- "Core" Work





HOW TO IMPROVE MOBILIY

- Warm up/ dynamic before exercises and shifts!
 - Perform movements throughout the day
 - Sitting = Disease (get off your butt)
- Train for the fireground!
 - Fullbody strength
 - DBs, TRX, Sandbags, Bands
 - Be functional (crawls, carry, steps)
- RECOVER!
 - YOGA, foam rolling, stretch





WARM UP/ DYNAMIC BEFORE EXERCISES AND SHIFTS!

- Perform each movement for 6 reps each side.
- Move into position and hold for only 2 seconds
- Perform as a circuit and repeat 2x.

Step Ups





Spiderman Steps

Reach and Rotate









TRAIN FOR THE FIREGROUND

- Full body training (we don't isolate on the fireground)
- Use functional equipment (DB's, KB's, TRX, sandbags, bands)
- Integrate functional movement (crawls, carry, stairs, etc.)





#GETFRF

RECOVER!

- Yoga/ Truck Stretching
- Foam rolling (percussion gun)
- MOVE- Hip circles, get-ups, hip rotations















THERE IS NO SECRET FORMULA. WORK HARD, EAT RIGHT, FOLLOW YOUR PLAN, GET FRF (FIRE RESCUE FIT)



Thanks for Attending!



After FR

fore FRF

Please share this with your crew and department.

Reach out to ZAM with any questions.

www.FireRescueFitness.com/fdsoa

The Anatomy of a Crew Workout

- Active warm-up (4-6 exercises)
- Fire Ground/ Strength/ Core Movements
 - Circuits of 6 or 8 exercises
 - 3 or 4 rounds (24 total)
- Stretch and foam roll (5 minutes)





Mobility is the Key to a Happy Career

#GETFRF

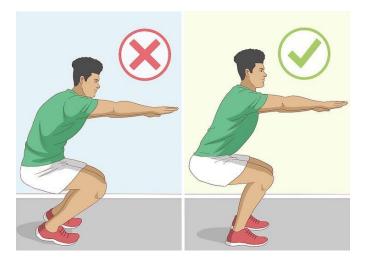
Posture and Form



Head back (finger trick)

Keys to good form

- Head
- Shoulders
- Abs
- Knees
- Toes





Resources

- R. Campbell, B. Evarts, J.L. Molis, United States firefighter injury Report NFPA journal. 2019, National Fire Protection Association (NFPA) (2018), pp. 1-14
- W.F. Peate, et al. Core strength: a new model for injury prediction and prevention. J Occup Med Toxicol, 2 (2007), p. 3
- R.J. Butler, et al. Modifiable risk factors predict injuries in firefighters during training academies Work, 46 (1)
- Functional Movement Screen in First Responders. <u>https://www.functionalmovement.com/articles/119/fms_in_fire_fighters</u>
- Mobility and Stability: Join Functions When We Move. <u>https://blog.nasm.org/certified-personal-trainer/mobility-and-stability-joint-functions-when-we-move</u>