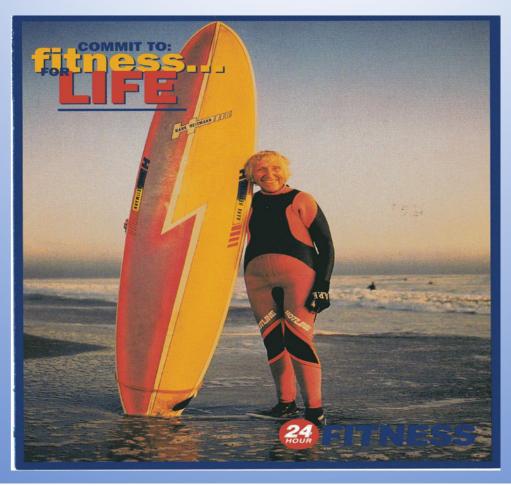
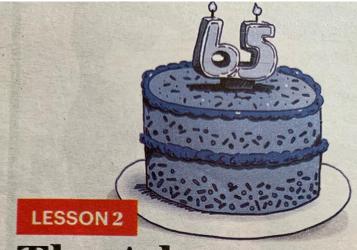
Grow Strong NOT old nor frail





The Adage 'Age Is Just a Number' Has New Meaning

66 Your health is directly related to lifestyle—nutrition, physical activity, a healthy weight and restorative sleep. 99—Jacob Mirsky, M.D., primary care physician at the Massachusetts General Hospital Revere HealthCare Center

WARNING

It has been determined that physical inactivity is as hazardous to your health as smoking!

IF U REST U Rust!

Be fit 4 LIFE!

Sedentary Life style increases your risk of developing:

diabetes, cancer, heart disease, osteoporosis, falling, memory, loss, losing functional skills, and developing memory / cognitive issues.

What you do now determines your future!

Too Often We Think we are too old to be active or too disabled to be active

Both are wrong!

Hippocrates said it 2000 yrs ago:
"All parts of the body which have
function and used in moderation,
become healthy and well developed and
age slowly. But if left unused, become
liable to do disease and age quickly.

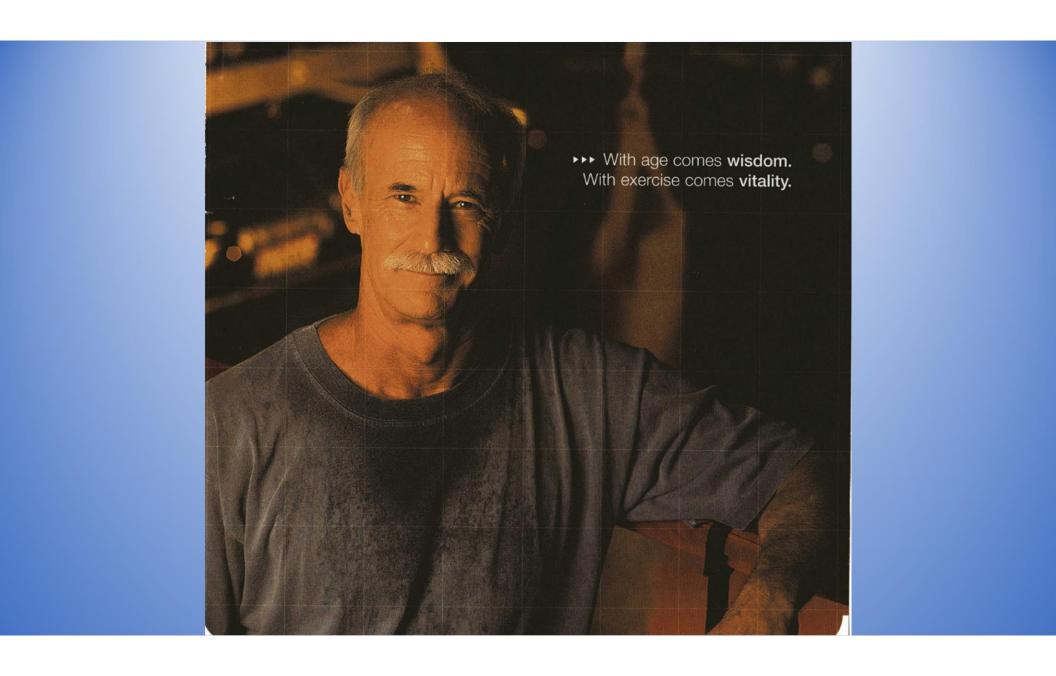
Mickey Mantle said it best

If I knew I would live this long I would've taken better care of myself!

Strengthening exercise is beneficial at any age



Karl Knopf of the Fitness Educators of Older Adults Association works with Chester H. Branoon on light weights.



Health & Wellness is a Journey

What you do TODAY

Determines your tomorrows

Stages of Exercise

- When we are young we exercise to look good.
- When we are middle- aged we exercise for the health of it.
- When we are old we need to exercise to function fully and avoid getting frail.

Quantity of life vs Quality of Life

 While we all want to live long – truthfully we all want live long & well and avoid becoming frail.

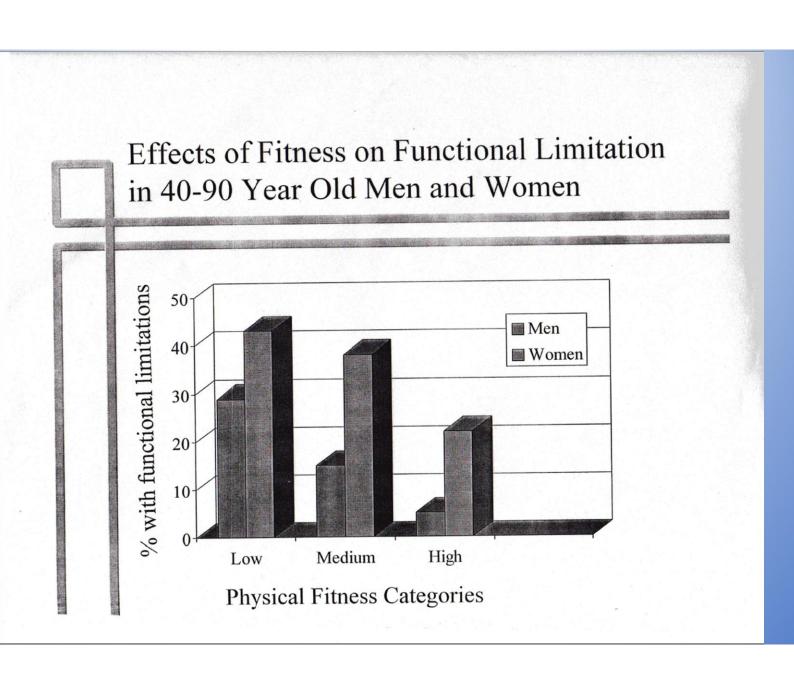
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- Most people are more concerned about being independent as long as they live.
- Proper health & fitness behaviors are positive steps to achieve that goal.

Sacropenia = age related atrophy. It happens without you noticing it- until its too late

- Age related muscle loss
 - Normal aging 2% / yr. x 50 yrs =
 - Active aging 1/2% / yr. x 50 yrs =
 - Grow strong NOT old!
 - A week w/o strength training makes you
 - Weak!

It is possible to become SO weak that everyday tasks are difficult.



Avoid becoming frail by:

Staying strong – maintain function, don't fall, ROM

Avoid depression – physical activity improves mood

Don't get skinny - eat right, keep teeth

Include strength training/PRE in your daily routine As well as aerobic exercise

Age is no barrier! GROW Strong!

- Exercise (Strength) / physical activity is the fountain of youth.
- Exercise makes you:
 - Have more confidence
 - Improves brain power
 - Improves appearance
 - Improves ADL / Function
 - Helps to reduce mild depression

The Top 10 Benefits of Exercise for Older Adults

- Maintenance of a high level of physical and social activity increases the quality of life, enhancing social satisfaction.
- Increased independence may be enjoyed when fitness and health are maintained. Most Americans fear infirmity and dependence more than death.
- 3. More energy and greater ease in performing daily routines.
- 4. Increased muscle tone and flexibility improve balance.
- The more muscle tissue a person maintains, the higher his or her metabolism, making it easier to control weight.
- 6. Calories burned through exercise allow a person to take in more nutrients.
- 7. Exercise delays loss of bone mass.
- 8. Improvement in posture, decreasing backache and enhancing appearance.
- Enhanced cardiorespiratory function improves peripheral circulation, decreasing the risk of atherosclerosis, high blood pressure and other circulatory problems.
- 10. Longer life span.

Other studies show that exercise/physical activity =

- •Lowers risk of stroke by 27%
- •Reduces diabetes by approx 50%
- •Reduces HBP by approx 40%
- •Reduced mortality & recurrent breast cancer by approx 50%
- Lower colon cancer by over 60%
- •Reduces the risk of Alzheimers by 40%
- •Can decrease depression as effectively as Prozac & behavioral therapy

Functional Fitness is key. Train with a purpose!

Some Experts suggest that strength is the key to your independence.

R U FIT FOR LIFE?

The following homework assignment might tell you.

Legs = Independence

- Self assessment Can you
- Sit to stand = 8 times in 30 seconds
- Walk 1/2 mile with ease while talking
- Get up from the floor without holding on
- Good Leg function is critical for :
 - Balance
 - Circulation
 - Independence

Strength – upper body self assessment

- Can you carry your groceries with ease?
- Lift a bag of tan bark without hurting your back?
- Can you squeeze or grip things like you once did?

Flexibility

- Can you touch your hands behind your back like a zipper?
- Can you touch your toes?

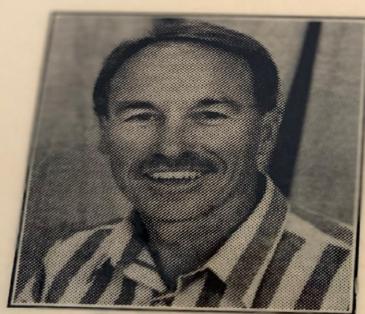
Balance

Can you stand on 1 leg for 30 seconds?

If answered no, to this simple self assessment then you need PRE!

- Think PRE
 - P = progressive
 - R = resistance
 - E= Exercise
- This can take the shape on any method that increases load as you get stronger

Strength training for older adults proves effective

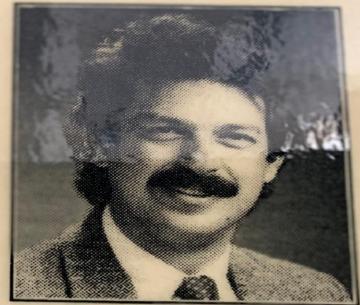


Dr. Karl Knopf

they fear dying.
According to Knopf, losing one's

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incr ing that

life

Dr. William J. Evans

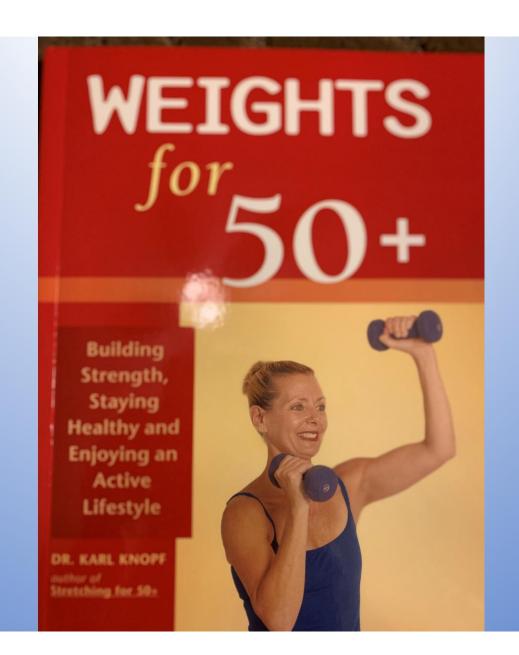
physicians will begin to realize that skeletal muscle is important for the Basic Strength Program should include: all the major muscle groups of the body such as:

Legs
Shoulders & arms
torso /core

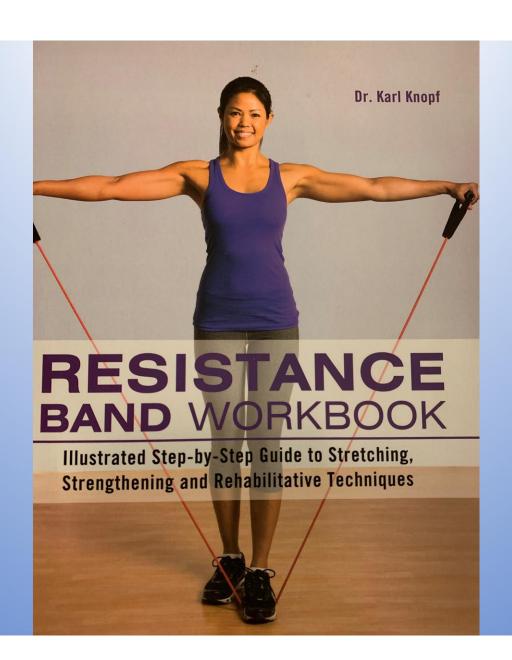
all done in functional mode manner

Many options exist for building muscular strength

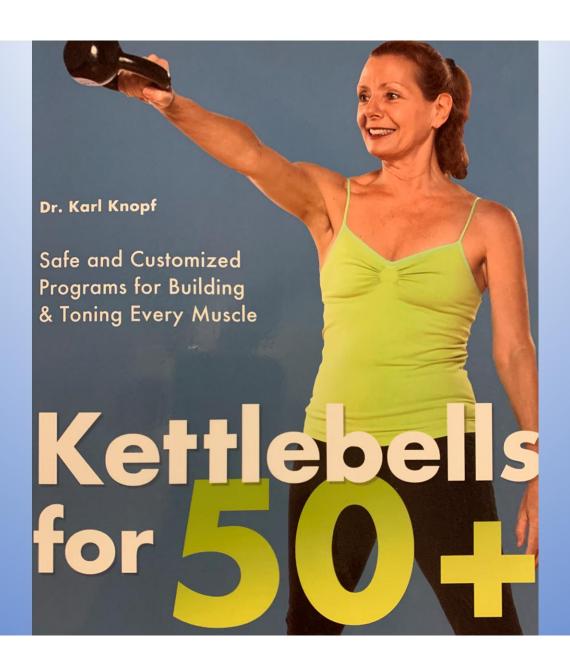
Weights



Bands



Kettlebells



Other PRE options include:

Body Weight Exercises = push-ups, pull ups etc Water Resistance exercise = paddles

To develop strength think about your goal

For Power = 6 to 8 reps

Overall = 8-10 reps

Muscular Endurance 10+ reps

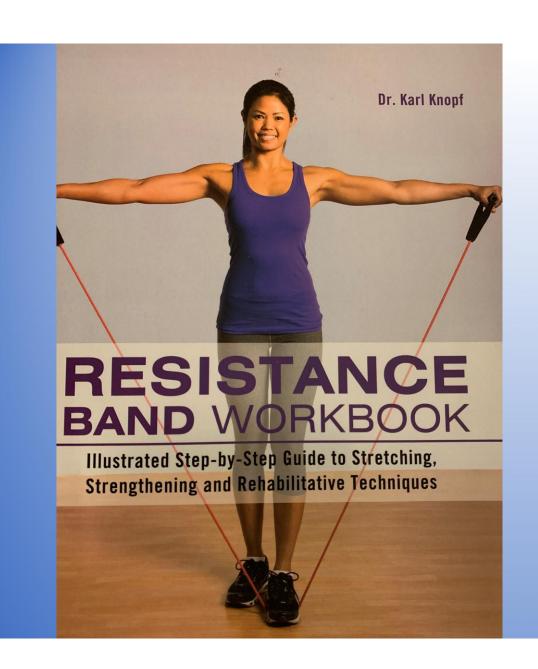
Research suggests 2-3 sets / muscle group 2-3x wk

Train with a purpose – specificity

Total Fitness program includes

- Muscular Strength
- Muscular Endurance
- Cardio respiratory
- Flexibility
- Balance static/dynamic
- Coordination
- Mind- body relaxation

Examples of exercise to include in your routine

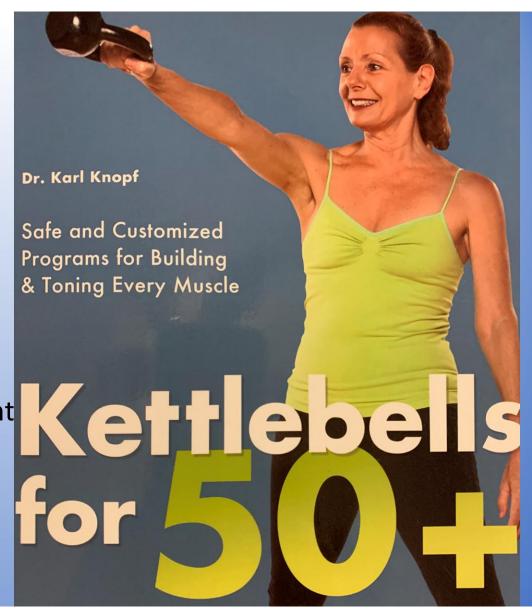


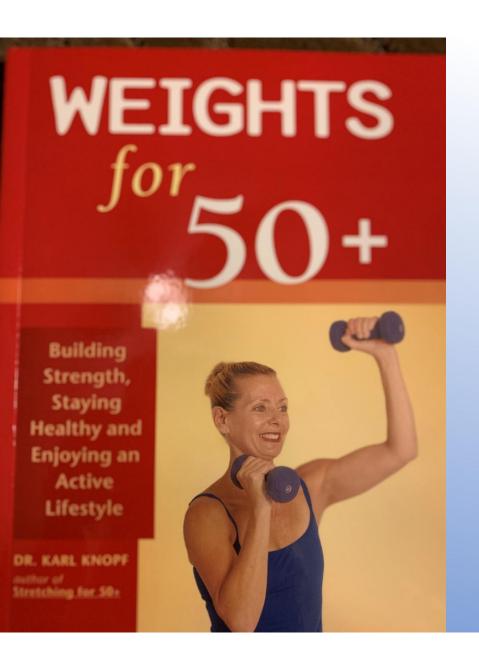
For Shoulders

Lateral raises. w/band or DB/KB

Frontal Raise w/KB

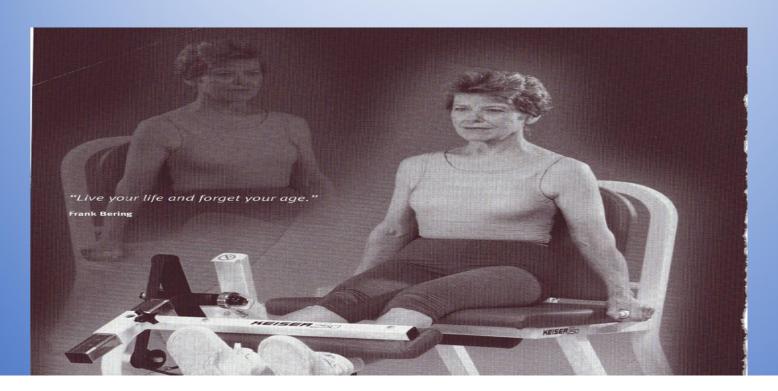
- Frontal Raises—Dumbbell/KB
- Starting Position –
- Standing with proper posture,
- arms alongside your body
- Keeping arm straight,
- lift one arm forward to shoulder height
- Lower slowly and alternate arms
- Repeat ____ times and do_





Shoulder Press

For Legs – Leg ext w/band or ankle wts, Chair squats Band Leg Press



For Arms

variety of arm curls with KB, bands, DB

Bicep Curls-DB

Starting Position

Standing /sitting with proper posture, palms facing inward with DB in each hand.

Slowly bring DB to your shoulders

Return to starting position

Repeat times and do sets

- Bicep Curls band
- Starting Position
- Standing / sitting with proper posture. Hold one end of band in your hand with your thumb up and place the other end of band under foot or fanny.
- Slowly bring band to your shoulder
- Return to starting position
- Repeat ____ times and do____ sets

Doing It Right

- Certain popular exercises and techniques often can be controversial or even contraindicated.
- Whenever selecting an exercise always understand the benefit to risk ratio of the movement
- ALWAYS consider Benefits to Return Index.

The hardest part of any work-out is getting started

- SET YOURSELF up to succeed
- Reward yourself along the way

If NOT now when?



Slow & steady wins the race

- Keys to a strong body and mind is:
- Maintain a healthy weight & strong legs
- Have regular check ups (men don't see MD)
- Avoid Falls be safe & improve balance
- Physical Activity is the key not just
 Exercise = 30 min/daily (moderate)
 - Aim for Functional fitness
 - Make it ME time!



My other books available

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or. Karl Knopf has been involved with health and fitness wellness for more than 30 years. A consultant on numerous lational Institutes of Health grants, Dr. Knopf has served as advisor to the PBS exercise series Sit and Be Fit, and to the State California on disabilities issues. He is a frequent speaker at conferences and has written several textbooks and articles. Dr. nopf is retired from Foothill College in Los Altos, California, where he taught adaptive fitness classes and directed the fitnes nerapy program. Dr. Knopf now serves as a director of fitness therapy and senior fitness programs for the International Spor cience Association, and was recently selected to the Health Advisory Board for Santa Clara County as an advisor to San Jose ate University's Human Performance Department.



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