The importance of training for senior citizens:

Why is cycling important?

- Reduces spasticity
- ·Increases muscle strength
- •Increases participation in individual and community activities
- ·Improves the sense of well being and reduces anxiety
- Increases and maintains heart and lung efficiency
- •Increases and maintains strength, flexibility, mobility and coordination
- •Improves and maintains bone structure and strength
- ·Assists in weight control

Cycling improves walking

Cycling and walking mutual characteristics



- Motor behavior
- Rhythmicity
- Low variability
- Central Pattern Generator
- Manager 4 in a suitable land

Movement in sagital plane

Cycling is better than

- •Rowing machine user may strain back; proper form must
- •Stair machine may cause back strain
- •Treadmill pricey; may require more maintenance
- •Cross country ski hard to learn; requires coordination
- ·Weight machine space user; hard to use; pricey
- •Rider may cause back strain; benefits may diminish
- •Free weights may require spotters; proper education needed

Aging and benefits of training: Aging effect negatively and training improves the following Maximal cardiac output Resting and exercise blood pressure Maximal oxygen consumption HDL (good cholesterol(Risk for heart diseases Muscle mass Muscular strength Muscle endurance Bone mass Flexibility Recover time Exercise in aging: · maintains functional capacity for independent living · Promotes psychological well-being · Provides opportunities for social interaction American College of Sports Medicine guidelines for Exercising and Prescription, 1995 · Exercising should be done two to three times per · Multiple sets may be more beneficial · Exercises should be progressive in nature and · Exercise should involve all the major muscle groups (lower and upper limbs)

Cycling is better than other activity

- Comprise a large part of motor behavior
- Complex (unlike reflexes)
- Stereotyped (unlike directed movements)
- Repetitive (unlike fixed action patterns)
- Produced by central pattern generators



