The following table is an excerpt from Exercise for Aging Adults¹

Maintenance of Health Benefits

Long-term benefits of exercise are sustained only with regular adherence (Table 2.2). Cardiovascular function, lung function, insulin sensitivity, strength, and pain relief are maintained over time when regular exercise is continued throughout the lifespan. Clinicians should encourage active older adults to continue regular exercise and inactive older adults to begin a program of their choice.

Table 2.2 Benefits of exercise for specific diseases and conditions

Disease or condition	Exercise component	Benefits
Cardiac and vascular		
Coronary artery	Endurance	Prevention
disease		Improves cardiac blood flow
	Tai Chi endurance	Prevention
		Improves blood lipids
	Endurance	Treatment
		Decreases mortality
		Improves cardiac function
		Improves blood lipids
Hypertension	Endurance, strengthening, and Tai Chi	Treatment
		Reduces systolic and diastolic blood
		pressure
Chronic heart failure	Endurance and strengthening	Treatment
		Decreases hospitalizations
		Decreases mortality
		Decreases inflammation
	Inspiratory muscle training	Treatment
		Decreases dyspnea
		Increases activity tolerance
Peripheral vascular	Endurance and strengthening	Treatment
disease		Increases blood flow
Atrial fibrillation	Endurance	Prevention
		Reduces incidence in
		normal-weight men and women and
		obese men
	Endurance and strengthening	Treatment
		Decreases resting heart rate
Stroke	Endurance	Prevention
		Decreases risk for atrial fibrillation
		Treatment
		Increases mobility (walking)
		Improves balance

(continued)

¹ Benton, Melissa J., M.S.N., Ph.D. "Benefits of Exercise for Older Adults." *Exercise for Aging Adults*. Springer, 2015. 23-25.

Table 2.2 (continued)

Disease or condition	Exercise component	Benefits
Dyslipidemia	Endurance and strengthening	Treatment
		Increases HDL-C
		Decreases LDL-C
	Tai Chi	Increases HDL-C
		Decreases total cholesterol
Respiratory		
COPD	Endurance and strengthening	Treatment
		Decreases dyspnea
		Reduces hospitalizations
		Decreases mortality
		Improves quality of life
Pulmonary arterial hypertension	Endurance and strengthening	Treatment
		Increases activity tolerance
		Increases mobility (walking)
		Improves quality of life
Endocrine		
Diabetes mellitus	Endurance	Prevention
		Improves insulin sensitivity
		Promotes weight loss
	Endurance and strengthening	Treatment
		Decreases blood glucose
		Increases blood flow
		Decreases mortality
Psychosocial	·	<u>-</u>
Dementia	Endurance and strengthening	Prevention
Sementa		Improves cerebral blood flow
		May increase brain and gray matter
		volume
		Treatment
		Increases function (activities of
		daily living)
		• •
		Increases mobility (walking)
		Improves balance
Malan Lana 1	F. 1	May slow cognitive decline
Major depression	Endurance	Prevention
	Pull and a substitute of the	Improves mood
	Endurance and strengthening	Treatment
		Improves mood
		Decreases symptom severity
		Increases socialization
		Improves quality of life (continued

(continued)

Table 2.2 (continued)

Disease or condition	Exercise component	Benefits
Insomnia	Strengthening and Tai Chi	Treatment
		Improves sleep quality
Musculoskeletal	·	
Osteoarthritis	Endurance and strengthening	Treatment
		Decreases pain
		Increases mobility (walking)
	Tai Chi	Treatment
		Decreases pain and stiffness
	Flexibility	Treatment
		Maintains joint range of motion
		Decreases pain
Fall risk	Strengthening (legs)	Prevention
		Maintains strength and muscle mass
		Improves balance
	Balance, trengthening.	Treatment
		Reduces number of falls and
		iniurious falls
Osteoporosis	Strengthening (high	Prevention
	intensity only) and	Reduces risk of osteoporosis of the hip
	endurance (high	and spine
	intensity only)	Treatment
		Improves bone density of the hip and
		spine
Obesity	Endurance	Treatment
		Maintenance of weight after loss; weight
		loss in conjunction with diet

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