# Dutch Study Compares Running Therapy to Antidepressant Treatment

A study published in May of 2023 compared the treatment outcomes of structured Running and SSRI Antidepressant Therapies for patients with diagnosed anxiety and depression disorders. There were 141 participants.

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Link to YouTube Video



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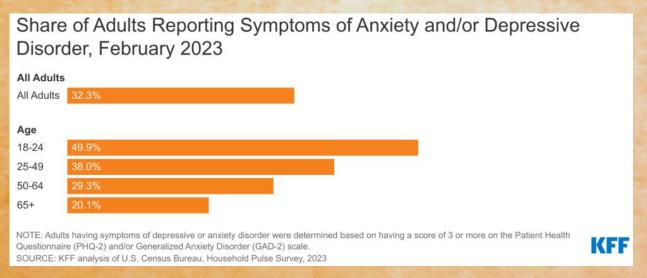
# Anxiety and Depression Are Common

In a 2023 survey, 32.3% of American adults reported symptoms of anxiety or depression disorders

• Rates tend to be higher among younger adults, and lowest among

senior citizens

• A & D <u>significantly increase</u> all cause mortality risk. Recurrent depression <u>reduces life expectancy</u> by 7 to 11 years.



# Exercise and SSRI Antidepressant Therapies Have Been Effective in Past Studies

- Cardiovascular disease, obesity, and diabetes are often comorbid with depression and anxiety disorders
- Some SSRIs can have side effects of increasing weight and markers of inflammation in some patients
- Exercise therapy has the potential to improve both mental health and other physical health symptoms

Causes of death	Depression	Anxiety disorders	
Unnatural causes			
Suicide	11.36 (10.25-12.52)	2.44 (2.11-2.80)	
Accident	4.02 (3.57-4.51)	2.60 (2.24-3.01)	
Homicide	2.57 (1.30-4.62)	2.34 (1.02-4.67)	
Natural causes			
Respiratory disease	2.07 (1.51-2.77)	1.31 (0.82-1.99)	
Cancer	0.82 (0.72-0.92)	0.88 (0.73-1.03)	
Digestive condition	1.71 (1.45-2.00)	2.00 (1.63-2.44)	
Cardiac disease	1.75 (1.49-2.06)	1.50 (1.20-1.86)	
Other disease	1.59 (1.50-1.69)	1.39 (1.28-1.51)	

Participants



141 participants age 18 to 70 with a diagnosis of an anxiety disorder, depressive disorder, or both.

 Participants also had sedentary lifestyles and no antidepressant use for at least two weeks prior

• Exclusionary criteria included pregnancy, suicide risk, and health conditions or disabilities that precluded exercise or antidepressant use

### The Study Period of 16 Weeks Had Two Groups

#### Running Group

- 96 participants (83 self-selected, 13 random)
- Required to complete at least 23 45-minute outdoor group sessions over the course of the study
- At-home make up sessions were allowed
- Supervised by professional trainers
- Received day-one education on safety, stretching, and nutrition
- Intensity was slowly ramped from low to moderate

#### SSRI Group

- 42 participants (36 self-selected, 9 random)
- Met with a psychiatrist at the start of the study and then at weeks 2, 6, 10, and 16 to optimize prescription and dosage
- First treatment was with Escitalopram (Lexapro in the US)
- If first treatment was ineffective or poorly tolerated, participants were transitioned to Sertaline (Zoloft in the US)

#### Other Treatment Details

- Complete physical and mental health assessments were performed at Weeks 1 and 16
- Participants were paid 50
   Euros at the initial and final assessments
- Self-report questionnaires were completed at weeks 6 and 10
- Clients were allocated 5 or more psychotherapy sessions over the course of the study
- Clinical care was continued after the end of the study



#### Mental Health Treatment Outcomes Were Similar

82.2% completion in SSRI
 Antidepressant group
 44.8% achieved

• 52.1% completion in Running Therapy group

remission

o 15% never started

17% Completed 8
 sessions or less

 43.3% achieved remission

 The worst adherence was in younger participants with high symptom severity

		Running therapy (n=96)	Antidepressant use (n=45)	Cohen's	p- Value		
Mental health outcomes							
	mission (% no gnosis at T16)	43.3 (5.8)	44.8 (8.3)	0.02	.881		
	sponse (50% luction on IDS-SR)	30.3 (5.1)	34.2 (8.9)	0.07	.730		
1000	sponse (50% luction on BAI)	32.4 (6.4)	47.2 (9.8)	0.26	.196		

# Physical Health Outcomes Were Much Better in the Running Therapy group

Several measured physical health factors significantly improved in the Running Therapy group, but were worse or unchanged in the Antidepressant Therapy Group

#### Running Group

- VO2 Max +2.1
- Weight -1.3 lb (-0.6 kg)
- Systolic BP -2.5
- Heart Rate -3.4
- Waist -0.6 in (-1.6 cm)
- HR Variability +1.2

#### Antidepressant Group

- VO2 Max -0.3
- Weight +7.3 lb (-3.3 kg)
- Systolic BP +3.8
- Heart Rate -0.1
- Waist +0.6 in (+1.5 cm)
- HR Variability -14.4

# Future Implications

• The standard of care received was very high and comprehensive relative to what's available to the vast majority of patients in the United States

 Adherence was much better in the Antidepressant treatment group, but physical health outcomes were much better in the Running therapy group

• The running sessions were completed outdoors and in groups. Both factors have been shown to increase mental health improvements from exercise.

• As <u>Dr Danvers notes</u>, it's almost certainly worthwhile to use other types of exercise that are accessible to mobility impaired patients.



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