THE KEY TO LONG LIFE IS EXERCISE

New review finds that people have a lower chance of premature death when they are active

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For better health and a longer life span, exercise is more important than weight loss, especially if you are over weight or obese, according to an interesting new review of the relationships among fitness, weight, heart health and longevity. The study, which analysed the results of hundreds of previous studies of weight loss and workouts in men and women, found that obese people typically lower their risks of heart disease and premature death far more by gaining fitness than by dropping weight or dieting.

	GRETCHEN REYNOLDS	back substantially on food intake. Exercise	studies related to cheiling, exercise, fitness,
	NYT	simply burns too few calories, in general, to aid in weight reduction. We also tend	metabolic health and longevity. They were especially interested in meta-analyses,
	or better besith and a longer life	to compensate for some portion of the	which pool and analyze data from mul-
	span, exercise is more impor-	meagre caloric outlay from exercise by	tiple past studies, allowing researchers to
	tant than weight loss, sepecially	eating more afterward or moving less, or	look at results from far more people than
and the second	ifyou are over weight or obese,	unconsciously dialiting back on our bodies'	in most individual studies of weight loss
	according to an interestingnew review of the relationships among fitness.	metabolic operations to reduce overall daily energy expenditure, as I wrote about	or exercise, which tend to be small-scale. They wound up with more than 200
	weight, heart health and longevity. The	in last week's column.	relevant meta-analyses and individual
	study, which analysed the results of hun-	Glenn Gaesser, a professor of exercise	studies. Then they set out to see what all
	dreds of previous studies of weight loss	physiology at Arizona State University in	of this research, involving tens of thou-
	and workouts in men and women, found	Phoenix, is well-versed in the inadequartes	sands of men and women, most of them
	that obese people typically lower their risks of heart disease and premature death fa-	of workouts for fat loss. For decades, he has been studying the effects of physical	obese, indicated about the relative benefits of losing weight or gotting fit for improving
	more by gaining fitness than by dropping	activity on people's body compositions	metabolisms and iongestiv. In effect, they
	weight or diating.	and metabolisms, as well as their endur-	asked whether someone who is heavy gets
	The review adds to mounting evidence	ance, with a particular focus on people	more health bang from losing weight or
	that most of us can be healthy at any	who are obese. Much of his past research	getting up and moving.
	weight, if we are also active enough. There written frequently in this column	has underscored the fulfility of workouts for weight loss. In a 2015 experiment he over-	The contest, they found, was not close. Compared head-to-head, the magnitude
	about the science of exercise and weight	saw, for instance, 81 sedentary, over weight	of benefit was far greater from improv-
	loss, much of which is, frankly, dispirit-	women began a new routine of walking	ing fitness than from losing weight,"
	ing, if your goal is to be thinner. This pase	three times a week for 30 minutes. After	Gaesser said.
	research overwhelmingly shows that	12 weeks, a few of them had shed some	As a whole, the studies they cite show
	people who start to exercise rarely lose much, if any, weight, unless they also cut	bodyfat, but 55of them had gained weight. In other studies from Gaesser's lab.	that sedeniary, obese men and women who begin to exercise and improve their
	uncu, a any, weight, chiese city and cor	though, overweight and obese people	fliness can lower their risk of premature
		with significant health problems, includ-	death by as much as 30% or more, even if
		ing high blood pressure, poor cholesterol	their weight does not budge. This improve-
		profiles or insulin resistance, a marker	ment generally puts them at lower risk of
		for Type 2 diabetus, showed considerable improvements in those conditions after	early death than people who are consid- ered to be of normal weight but out of
		they started exercising, whether they	shape, Gaesser sald.
	and the second sec	dropped any weight or not. Seeing these	On the other hand, if he avy people lose
		results, Gaesser began to wonder if fitness	weight by dieting (not liness), their statis-
		might enable over weight people to enjoy sound metabolic health, whatever their	tical risk of dying young typically drops by about 16%, but not in all studies. Some of
		body mass numbers, and potentially live	the research cited in the new review finds
	Compared head-to-head.	just as long as ininner people - or oven	that weight loss among obese people does
and the plant of the second se	the magnitude of benefit	longer, if the slender people happened to	not decrease mortality risks at all.
		be out of shape. So, for the new study, which was pub-	The primary takeaway of the new review, Gaesser concluded is that you do
	was far greater from	lished this month in IScience, he and his	not need to lose weight to be healthy. "You
	improving fitness than	colleague Siddhariha Angadi, a profes-	will be better off, in terms of mortality risk,
		sor of education and kinesiology at the	by increasing your physical activity and
	from losing weight	University of Virginia in Charlottesville, began scouring research databases for past	fitness than by intentionally losing weight,"
		orden recoming memory menorsector bas	he said. @ 2021 THE NEW YORK TIMES COMPANY

The review adds to mounting evidence that most of us can be healthy at any weight, if we are also active enough.

I have written frequently in this column about the science of exercise and weight loss, much of which is, frankly, dispiriting, if your goal is to be thinner. This past research overwhelm-ingly shows that people who start to exercise rarely lose much, if any, weight, unless they also cut

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back substantially on food intake. Exercise simply burns too few calories, in general, to aid in weight reduction. We also tend to compensate for some portion of the meagre caloric outlay from exercise by eating more afterward or moving less, or unconsciously dialling back on our

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bodies' metabolic operations to reduce overall daily energy expenditure, as I wrote about in last week's column.

Glenn Gaesser, a professor of exercise physiology at Arizona State University in Phoenix, is well-versed in the inadequacies of workouts for fat loss. For decades, he has been studying the effects of physical activity on people's body compositions and metabolisms, as well as their endurance, with a particular focus on people who are obese. Much of his past research has underscored the futility of workouts for weight loss. In a 2015 experiment he oversaw, for instance, 81 sedentary, overweight women began a new routine of walking three times a week for 30 minutes. After 12 weeks, a few of them had shed some body fat, but 55 of them had gained weight.

In other studies from Gaesser's lab, though, overweight and obese people with significant health problems, including high blood pressure, poor cholesterol profiles or insulin resistance, a marker for Type 2 diabetes, showed considerable improvements in those conditions after they started exercising, whether they dropped any weight or not. Seeing these results, Gaesser began to wonder if fitness might enable overweight people to enjoy sound metabolic health, whatever their body mass numbers, and potentially live just as long as thinner people — or even longer, if the slender people happened to be out of shape.

So, for the new study, which was published this month in iScience, he and his colleague Siddhartha Angadi, a professor of education and kinesiology at the University of Virginia in Charlottesville, began scouring research databases for past studies related to dieting, exercise, fitness, metabolic health and longevity. They were especially interested in meta-analyses, which pool and analyse data from multiple past studies, allowing researchers to look at results from far more people than in most individual studies of weight loss or exercise, which tend to be small-scale.

They wound up with more than 200 relevant meta-analyses and individual studies. Then they set out to see what all of this research, involving tens of thousands of men and women, most of them obese, indicated about the relative benefits of losing weight or getting fit for improving metabolisms and longevity. In effect, they asked whether someone who is heavy gets more health bang from losing weight or getting up and moving.

The contest, they found, was not close. "Compared head-to-head, the magnitude of benefit was far greater from improving fitness than from losing weight," Gaesser said.

As a whole, the studies they cite show that sedentary, obese men and women who begin to exercise and improve their fitness can lower their risk of premature death by as muchas 30% or more, even if their weight does not bud ge. This improvement generally puts them at lower risk of early death than people who are considered to be of normal weight but out of shape, Gaesser said.

On the other hand, if heavy people lose weight by dieting (not illness), their statistical risk of dying young typically drops by about 16%, but not in all studies. Some of the research cited in the new review finds that weight loss among obese people does not decrease mortality risks at all.

The primary takeaway of the new review, Gaesser concluded, is that you do not need to lose weight to be healthy. "You will be better off, in terms of mortality risk, by increasing your physical activity and fitness than by intentionally losing weight," he said.