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Intermittent Fasting & Time-Restricted Feeding

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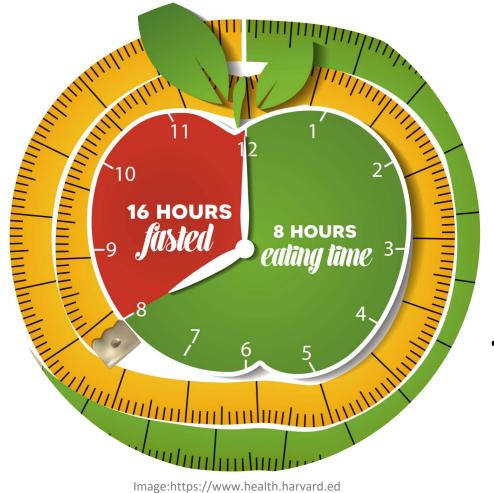
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Intermittent Fasting

and

Time-Restricted Feeding

Image:https://www.health.harvard.e u/staying-healthy/is-intermittentfasting-safe-for-older-adults

> DFEND 2.0 Angela Tacinelli, MS

Objectives

1. Define intermittent fasting (IF)

2. Define time-restricted feeding (TRF)

3. Learn about the different forms of IF & TRF

4. Understand the benefits, risks, current research with IF & TRF









Defining Intermittent Fasting & Time-Restricted Feeding

- Intermittent Fasting
 - An eating pattern which includes hours or days of eating minimal to no food without being deprived of essential nutrients.
 - Time-Restricted Feeding/Eating
 - Eating only during certain time period (8 or 10 hours) each day.









Forms of Intermittent Fasting & Time-Restricted Feeding

Intermittent Fasting

- Alternate-day fasting
- 5:2 fasting (*The 5:2 Diet*)
- 24-hour fast (*Eat, Stop, Eat*)
- The warrior diet
- Spontaneous meal skipping

Time-Restricted Feeding

- 16/8 method
- 14/10 method

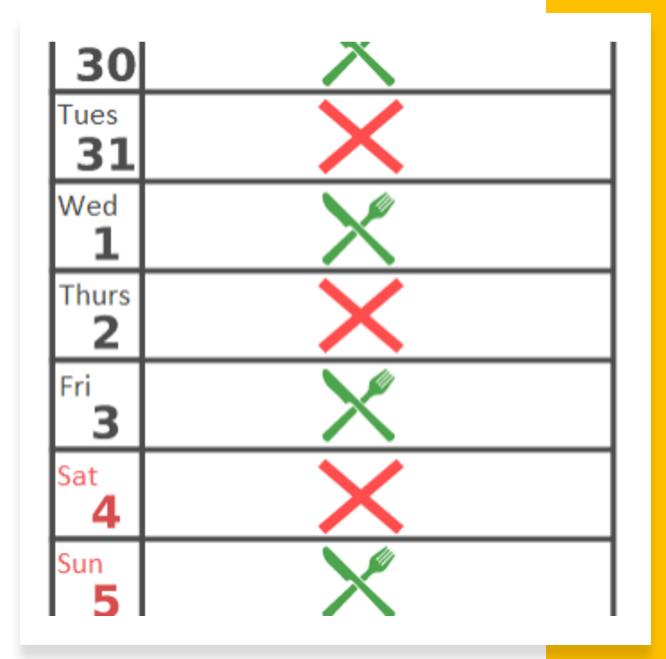












Alternate-day Fasting

Fast every other day by either not eating anything or only having a small meal (less than 500 calories).

DAY 1	DAY 2	DAY 3	DAY 4	DAY 5	DAY 6	DAY 7	
Eats normally	24-hour fast OR Eat only a few hundred calories	Eats normally	24-hour fast OR Eat only a few hundred calories	Eats normally	24-hour fast OR Eat only a few hundred calories	Eats normally	

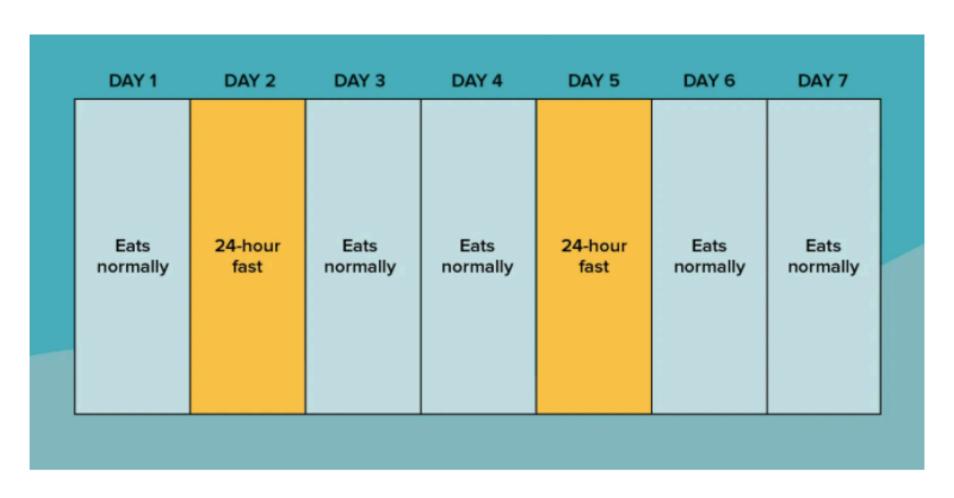
The 5:2 Diet (Twice-a-Week Method)

Eat normal 5 days of the week while only 500-600 calories the other 2 days of the week.

_	DAY 1	DAY 2	DAY 3	DAY 4	DAY 5	DAY 6	DAY 7	
	Eats normally	Women: 500 calories Men: 600 calories	normally	Eats normally	Women: 500 calories Men: 600 calories	Eats normally	Eats normally	

The 24-Hour Fast (Eat Stop Eat)

Fast for a full 24-hours 1-2 days a week and eat normally on all the other days.



The Warrior Diet

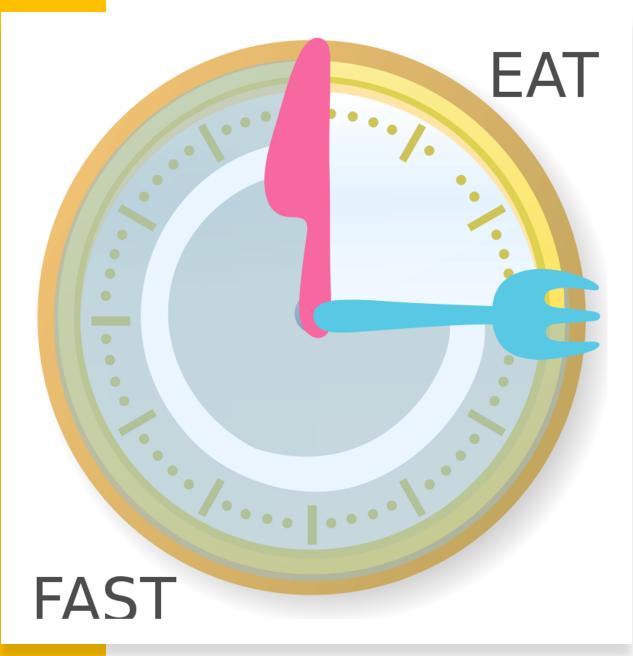
Eat small amounts of fruits and vegetables during the day & eat one huge meal at night during a 4-hour time period.

	DAY 1	DAY 2	DAY 3	DAY 4	DAY 5	DAY 6	DAY 7
Midnight							
4 AM	Eating only small amounts of						
8 AM	vegetables and fruits						
12 PM	i						
4 PM	Large meal						
8 PM							
Midnight							

Spontaneous Meal Skipping

Skip 1-2 meals when you don't feel hungry or don't have time to eat.

DAY 1	DAY 2	DAY 3	DAY 4	DAY 5	DAY 6	DAY 7	
Breakfast	Skipped Meal	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast	
Lunch	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch	
Dinner	Dinner	Dinner	Dinner	Skipped Meal	Dinner	Dinner	



Time-Restricted Feeding/Eating



16/8 Method

Daily 16-hour fasts and eat only 2-3 meals during an 8-hour time period.

	DAY 1	DAY 2	DAY 3	DAY 4	DAY 5	DAY 6	DAY 7
Midnight							
4 AM	FAST						
MA 8							
12 PM	First meal						
4 PM	Last meal by 8pm						
8 PM	FAST						
Midnight							

14/10 Method

Daily 14-hour fasts and eat only 2-3 meals during a 10-hour time period.

	DAY 1	DAY 2	DAY 3	DAY 4	DAY 5	DAY 6	DAY 7
Midnight 4 AM 8 AM	FAST						
12 PM	First						
	Meal- 10am						
4 PM	Second						
	Meal						
8 PM	Last Meal-						
	8pm						
Midnight	FAST						

What is allowed during the fast...

- Water
- Black Coffee (NO MILK, CREAM OR SUGAR)
- Zero-Calorie Beverages

What is **NOT** allowed during the fast...

Solid or caloric foods & beverages









What foods should you eat?

- Avoid processed, high-calorie foods
- Lean proteins
- Fruits
- Vegetables
- Carbohydrates
- Fats

https://health.usnews.com/wellness/food/articles/intermittent-fasting-foods-to-eat-and-avoid

Check out the DFEND website for fasts facts on:

- Foods in a healthy eating pattern
- How much of each food group is recommended









Are intermittent fasting & time-restricted feeding good for you...?









The Potential Benefits

May help you naturally eat less¹

- Some studies have found that TRF can help reduce the number of calories you eat
- However this was not the case across all studies. Some did not observe a reduction in calorie consumption.
 - How to avoid this? Avoid high-calorie foods.

Weight loss

- THE KEY: Lower glucose levels when fasting because our body metabolically switches to using energy from fat instead of glucose (blood sugar) $\frac{2}{3}$
- Help reduce the risk of obesity-related disease⁴









The Potential Benefits

- Improve health conditions⁵
 - Obesity, diabetes, cardiovascular disease, cancers, & neurological disorders

- It may help reduce inflammation and improve disease-related conditions associated with inflammation²
 - Alzheimer's disease, Arthritis, Asthma, Multiple sclerosis, Stroke









The Possible Risks or Side Effects

- Hunger
- Fatigue
- Insomnia
- Nausea (do you have to eat with medication?)
- Headaches
- Concern about losing too much weight for some individuals



Image: https://www.sleepassociation.org/sleepapnea/cpap-treatment/cpap-side-effects/









Current Research

- Most research uses diet records to look at the effects of IF or TRF and diet records are not always the most accurate
- Most studies have looked at short-term effects but the long-term health effects are lesser known
- Most research has been done in overweight and middle-aged adults so more research is needed in healthy weight, younger, and older adults⁷



Image: https://www.sleepassociation.org/sleepapnea/cpap-treatment/cpap-side-effects/









Things to keep in mind...

- As with any healthy dietary pattern, the most benefits are gained when they are implemented as a long-term, or lifestyle, change
- Pick what works best for you and your schedule! Also consider a gradual, phasedin schedule.
- It important to make sure that the meals you DO EAT contain healthy fruits & vegetables and are balanced to meet nutritional needs including carbohydrates, fats, proteins, and other micronutrients









Summary

- 1. IF involves full days of completely fasting or limited calorie intake
- 2. TRF is a specific type of IF that involves fasting and eating during set time periods each day
- 3. Research has showed that IF can have health benefits much like diets that focus on caloric restriction⁸
- 4. It is important that you are still getting all the necessary nutrients from the food/meals that you DO EAT when not fasting
- 5. Pick what works best for you **AFTER** speaking with a licensed dietician or physician!

If you can't stick to it long-term, it may cause more harm than good.









Next week...

Carbohydrates & Dietary Fat





Images adapted from: https://365performance.com.au/b log/carbs-fats-proteins-good/







