Al Research Report

SOURCE 1:

- Intermittent Fasting: Overview and Health Implications
- This study explores intermittent fasting, its various methods, potential health effects, and circumstances under which it should be avoided.
- Intermittent fasting includes various approaches such as alternate day fasting, modified fasting, time-restricted eating, and Ramadan fasting, each with unique methods of energy restriction.
- Research indicates that intermittent fasting can enhance metabolic processes, promote weight loss, and positively impact heart health, insulin resistance, brain function, cancer prevention, metabolic health, inflammation, and aging.
- The practice of intermittent fasting not only boosts ketone production, which serves as an energy source, but also influences the circadian rhythm and gut microbiota, promoting better gut health.
- It is important to consider individual differences such as age, sex, and specific health conditions (like pregnancy or breastfeeding) when practicing intermittent fasting, as it may not be suitable for everyone.

URL:

https://cyprusjmedsci.com/articles/intermittent-fasting-and-its-potential-effects-on-health/cjms.2024.2023-109

SOURCE 2:

- Intermittent Fasting: An Overview and Its Potential Health Benefits
- Intermittent fasting is an eating pattern that alternates between periods of eating and fasting, with various methods including full-day fasting, alternate-day fasting, and time-restricted eating.
 - Health Benefits
- Short-term research indicates that intermittent fasting may improve key health markers such as blood sugar levels, weight, blood cholesterol, blood pressure, and chronic inflammation.
 - Long-Term Effects and Risks
- The long-term health effects of intermittent fasting are unclear, with some studies suggesting that general calorie restriction may provide similar benefits. Potential negative effects include fatigue, dizziness, headaches, and impacts on diabetes management and the menstrual cycle.
 - Not Suitable for Everyone
 - Intermittent fasting may not be appropriate for individuals with eating disorders, those who are

pregnant or breastfeeding, or individuals at high risk of bone loss. Consultation with a healthcare professional is advised before starting this eating pattern.

URL:

https://www.mayoclinic.org/healthy-lifestyle/nutrition-and-healthy-eating/expert-answers/intermittent-fasting/fa q-20441303#:~:text=Health effects of intermittent fasting,health in the short term.

SOURCE 3:

- Intermittent Fasting as an Alternative to Caloric Restriction: Intermittent fasting (IF) is an effective dietary intervention for obesity and chronic illnesses, offering similar benefits as caloric restriction (CR) in weight management and metabolic health improvements.
- **Improved Dietary Adherence**: IF is easier to maintain over the long term compared to continuous caloric restriction, leading to better dietary adherence and outcomes.
- **Health Benefits of Intermittent Fasting**: IF has been associated with reductions in body weight, improved glucose homeostasis, enhanced lipid profiles, and anti-inflammatory effects, similar to those observed with caloric restriction.
- **Mechanisms of Action**: The health benefits of IF primarily stem from weight reduction, which lowers insulin levels and cardiovascular risks by modulating various metabolic signaling pathways, including mTOR, AMPK, and FOXO.
- **Popular IF Regimens**: Common intermittent fasting approaches include the 5:2 diet (two days of caloric restriction per week) and alternate-day fasting, alongside time-restricted feeding methods.

URL: https://pmc.ncbi.nlm.nih.gov/articles/PMC9946909/