



Nicotinamide Adenine Dinucleotide (NAD+) - IV Drip

What is NAD IV Drip?

Originally discovered in 1905, NAD is also known as the oxidized coenzyme form of vitamin B3. NAD and its reduced form, NADH, are converted into each other as an essential part of numerous different metabolic activities in the body. NAD is necessary in energy production as it is required to oxidize all macronutrients into ATP via the glycolysis and electron transport chain in the mitochondria of cells. ATP is the primary energy source that is needed to fuel most biological processes in the body.

Heart, brain and muscle tissue cells contain the highest concentration of NAD. The more NAD present in cells, the more efficient they function. Damage to cell organelles disrupts active transport, enzyme production and function & cell reproduction, which in turn leads to degenerative changes in the cell, tissues, and eventually the person. Metabolic syndrome, cognitive decline, cancer and aging all involve disruptions in cell signaling dependent on NAD.

Research has shown IV NAD is beneficial in the treatment of a variety of conditions. These include traumatic brain injuries, cardiovascular disease, blood sugar imbalance & diabetes, autoimmune conditions, fibromyalgia, chronic fatigue syndrome, cancer, kidney & liver disease, and neurodegenerative disease such as dementias, Parkinson's, spinal cord injury and multiple sclerosis. NAD has also demonstrated improvements in depression, alcohol & drug addiction, exercise capacity, and halt age decline.

NAD decline has been found to be at the core of the ten hallmarks of aging, namely DNA damage, epigenetic alteration, deregulated nutrient utilization, loss of proteostasis, altered cellular communication, cellular senescence, stem cell exhaustion, mitochondrial dysfunction, compromised autophagy, and telomere decline. NAD has not only been shown to slow the aging process, but even reverse some signs of aging. In particular,

NAD works on mitochondria and increases the length of telomeres, which are the protective caps located on the ends of chromosomes that shorten as the body ages. NAD increases the activity of proteins (SIRT1 & PARP1), which are linked with a slower aging rate and influence DNA repair.

The levels of NAD that naturally occur in the body decrease as we get older. IV NAD supplements this gradual decline and provide this powerful coenzyme directly into the bloodstream, making it readily available to cells for immediate use.

Uses

- Recovering from addiction & substance abuse
- Increasing lifespan and longevity
- Restoring neurological function & cognitive decline
- Improving muscle strength & function; increased exercise capacity
- Supporting weight loss
- Depression & mood disorders
- Reducing fatigue and chronic fatigue states
- Autoimmune disease
- Cancer
- Cardiovascular disease
- Kidney & liver disease
- Diabetes
- Healthy aging

Procedure

This IV consists of 3 components administered consecutively via one access site. The first IV bag is a Myers Cocktail consisting of vitamins & minerals that support the uptake and use of NAD. The second bag is the NAD. This is followed by a glutathione push.

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Ingredients

IV Treatment 1

- Folinic Acid - Leucovorin
- Selenium
- Zinc Sulfate
- Ascorbic Acid
- Magnesium Chloride
- Calcium Chloride
- B5-Dexpanthenol
- B6-Pyridoxine
- B-Complex 100
- B12 Methylcobalamine
- Normal Saline

IV Treatment 2

- Powder NAD+ (250-2000mg)
- 8.4% Sodium Bicarbonate
- 0.9% Normal Saline

IV Treatment 3

- Glutathione
- Sterile Water

****Note:** transient gastrointestinal discomfort is commonly experienced and may be minimized by slow administration of NAD+

Side Effects

Common

- Heat & flushing sensation due to the magnesium
- B-vitamin taste
- Fatigue
- Nausea with rapid infusion or on an empty stomach
- Irritation at IV access site
- Hypoglycemia

Rare

- Temporary numbness in hands from rapid infusion
- Detox reactions: headache, body ache

Duration

4-6 hours

Patient Prep

Please arrive on time and be well-hydrated. Please ensure that you have eaten prior to the intravenous treatment.

Please inform a lab technician and/or your doctor if you have any allergies; have a history of any reaction to intravenous treatment or have any concerns regarding this treatment.

Please consult with your ND if your condition persists or worsens.

If you have any questions, please contact us at (604)738-1012, ext.1

Notes
