

# Ultraviolet Blood Irradiation Ozone Therapy (UVMAH) - IV Drip



## What is UVMAH IV?

This procedure exposes blood to multiple light wavelengths to enhance specific biological effects. It is based on the research of Niels Ryberg Finsen, a Nobel prize winner in the field of Physiology of Medicine. The procedure has been used in Europe and the United States for decades and over 300,000 successful clinical trials have been observed. Before the advent of antibiotics, vaccines, and corticosteroids it was a main treatment for infectious diseases but now has also been shown to be effective in autoimmune disorders, cardiovascular disease, fatigue, depression and more.

## What does it treat?

UBI has been useful in treating: - All types of viral, bacterial, and fungal infections - Inflammatory conditions such as thrombophlebitis (inflammation of the vascular system), fibrositis, bursitis, nephritis, iritis, uveitis, cholecystitis, pancreatitis, and rheumatoid arthritis - Circulation conditions such as varicose veins and diabetic ulcers, peripheral vascular disease, gangrene, and vascular headaches - Other conditions such as non-healing wounds and fractures, pemphigus, emphysema, depression, fatigue, and muscle pain. In Germany UBI has been used as an adjunctive cancer treatment and is still used alongside chemotherapy and radiation. There are preliminary studies indicating that UBI may be useful in treating HIV. An FDA approved phototherapy machine has been approved for clinical trials on people with HIV and Graft vs Host disease

## What to expect?

People undergoing the treatment may experience an increase in energy, overall mood, and improvement in symptoms. It is possible to experience an exacerbation of symptoms or illness a day to 2 weeks after the procedure. This is due to an enhancement of the immune system function which may result in 'die off' of any external pathogens in the blood. This die off process is also known as a Herxheimer reaction.

## How does it work?

UBI is delivered by a polychromatic device (PCD), that has numerous light sources for different wavelengths of light. The different wavelengths emit high energy light ranging from ultraviolet to visible light. Each wavelength has a specific mechanism of action: - Red supports detoxification enzymes and stabilizes normal DNA in cells. - Amber releases nitric oxide inside and outside the cells, which act to both dilate the blood vessels and improve cellular signalling. - Green supports the proper structure and function of red and white blood cells - Blue promotes the dilation of blood vessels and reduces inflammatory markers in the blood, which in turn increase oxygen and nutrients to cells - UV light disinfects blood of any external pathogen, as well as support the structure and function of all blood cells.

### Uses

- Lyme disease
- Autoimmune conditions
- Bacterial, parasitic, fungal or viral infections
- Inflammatory conditions
- Vascular disease

### Ingredients

- 0.9% Normal Saline
- Ozone Gas
- Patient Whole Blood

### Duration

30 - 45 minutes



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## Side Effects

### Common

- Redness, swelling at injection site
- Increased bleeding time for 1-2 hours after procedure due to heparin

### Rare

- Allergic or Herxheimer reaction
- Infection at injection site

*NOTE: contraindicated in patients with G6PD. Screening for deficiency is done with all patients prior. Relative contraindication in hyperthyroidism*

## Procedure

UVMAH is performed by extracting blood and running it through a line which passes through the PCD in a closed system. After exposure to the light the blood is then returned back into the body through the same vein it was removed from.

A typical treatment may include a re-circulation of 100ccs of blood through the machine. Depending on the extent and type of disorder being treated, your Naturopathic Physician may prescribe up to 3-4 treatments a week for numerous weeks.

## Notes

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## 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

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