

### Lipotropic (MIC) Injections

Lipotropic injection agents belong to a class of substances that play important roles in the body's use of fats though their involvement in the lipid metabolism, lipotropics help maintain liver function and promote fat excretion. The substances included in the injection are:

1. **M**ethionine is an antioxidant amino acid that helps to neutralize free radicals. Methionine deficiency develops with inadequate intake of the amino acid, mostly from meat diets or poor absorption. It assists in the breakdown of fats and thereby prevents the build-up of fat in the arteries, as well as assisting with the digestive system and removing heavy metals from the body since it can be converted to cysteine, which is a precursor to glutathione, which is of prime importance in detoxifying the liver. The amino acid methionine is also a great antioxidant and the sulfur it supplies activates free radicals. It is one of the three amino acids needed by the body to manufacture creatine monohydrate, a compound essential for energy production and muscle building. **Methionine does contain sulfur so patients with a sulfa allergy should not take this injection.**
2. **I**nositol is a vitamin that is vital for the metabolism of fat and cholesterol and aids in their transport in blood vessels. Inositol can help lower cholesterol levels. A lack of inositol has been shown to produce an accumulated of triglycerides in the liver (fatty liver), as well as hair loss.
3. **C**holine is co-enzyme that is needed for the metabolism of fats and leads to the transport of fats out of the liver. Deficiency of choline can lead to cirrhosis of the liver.
4. Thiamine (**B1**) – Thiamine is a B-vitamin that helps to breakdown and convert carbohydrates into energy.
5. Riboflavin (**B2**) – The water-soluble riboflavin plays a role in the metabolizing of carbohydrates, protein, and fat.
6. Pyridoxine (**B6**) – Pyridoxine, vitamin B6, is required by your body for utilization of energy into the foods you eat, production of red blood cells, and proper functioning of nerves. It is used to treat and prevent vitamin B6 deficiency resulting from poor diet, certain medications, and some medical conditions.
7. Vitamin **B12** – Vitamin B12 is an essential piece of maintaining nervous system function. It assists DNA replication and formation.

I, \_\_\_\_\_, understand that:

Each patient responds differently to medicine and may respond differently from one treatment to the next. As with all medicines, results are temporary and regular dosing is necessary. The length of time the injectable medication lasts varies in each patient. NO guarantee can be made regarding the results and length of time it lasts. There are some risks with any treatment.

The following is the list of possible risk with injections:

- Pain or bruising, redness, bleeding at the injection site (these are usually minimal and dissipate in minimal amount of time).
- Some people may experience allergic reaction to the injections.
- Stomach upset and urinary problems (urge incontinence), diarrhea.
- Some patients have reported experiencing joint pain.
- Weight loss can be inconsistent from one week to the next.

*I have been given the opportunity to have all my questions answered. I will inform my technician of any changes in my medical history, current medications, and/or any changes relevant to this procedure prior any further treatments.*

*I have read and understand the ingredients of the injections being administered to me and I consent to treatment. I further acknowledge that I am taking this injection(s) of my own accord. I agree to release the facility and the medical practitioner from any liability arising from the procedure.*

Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_