

What is Lymphocyte Membrane Immunotherapy (LMIT)

LMIT induces T2 Regulator Cells to be produced, the same immunity that occurs naturally in women who have delivered a full term live born baby.

It is safe, it will not harm you or cause you to be at risk of any other problems. Side effects may include blisters, redness and itchiness at the site of injection. Long term studies have shown no problems or ongoing side effects. ***If you experience a non-localised rash following LMIT treatment, please contact one of our Nurses.***

What does LMIT do

The treatment will usually result in the formation of blocking antibodies in the recipient, a reduction in natural killer cell killing power and a shift from a TH1 to a TH2 Cytokine immune response. This compound effect lessens the impact of the immune response on fertility.

How is the LMIT Solution made

LMIT is a concentrated serum made from white blood cells (Lymphocytes) extracted from the blood of the male partner's blood. The cells are isolated and lysed (broken up) and the membranes collected and concentrated.

The serum is then prepared where the blood is washed 3 times with sterile saline and the CD3 T-Cells and the CD19 B-Cells are isolated by centrifusion. The final volume is 1ml of prepared cells. This is then injected into the dermal layer of the recipient's skin (female partner).

Mandatory blood tests required PRIOR to LMIT Treatment

All patients must have current infectious diseases screening bloods prior to LMIT Treatment. The recipient (female) and her partner are both required to be screened for HIV I&II, Hepatitis B, Hepatitis C and Syphilis, HTLV and CMV

"Current LMIT Screenings" refers to screenings that are within **12 months of LMIT Treatment**.

*****No LMIT Treatment will be administered if we do not have a copy of BOTH parties' current results on file*****

When is the LMIT Treatment Administered

When Trying for a Pregnancy

The LMIT treatment involves an initial activation dose of 2 injections, 4 weeks apart. This will remain in your system for up to 6 months. An LMIT Booster injection will be required 5 months after the second dose to provide coverage for up to another 6 months.

- ***Do not start trying for a pregnancy until you have received your 2nd LMIT injection***
- ***When moving embryos from another clinic, LMIT treatment will not be actioned until the embryos have arrived at Monash IVF***

When a Pregnancy is achieved

If a pregnancy is achieved the LMIT is given at 4 weeks, 9 weeks and at 14 weeks of the pregnancy to control natural killer cell activity and boost blocking antibody levels to keep the pregnancy immunologically protected.