
AmnioBoost has potential for use in the treatment of ARDS, which is the principal cause of death in COVID-19 infection.1 Mortality in COVID-19 infected patients with the inflammatory lung condition (ARDS) is reported to approach 50%, and is associated with older age, co-morbidities such as diabetes, higher disease severity, and elevated markers of inflammation.1 Current therapeutic interventions do not appear to improve in-hospital survival.1

AmnioBoost is believed to have immunomodulatory properties to counteract the inflammatory processes that are implicated in several diseases by down-regulating the production of pro-inflammatory cytokines, increasing production of anti-inflammatory cytokines, and enabling recruitment of naturally occurring anti-inflammatory cells to involved tissues.

Major anti-inflammatory cytokines found in AmnioBoost include: interleukin (IL)-1beta, IL-1ra, TNF-alpha, IL-6, IL-8, IL-16, CCL2, CXCL7, MIF, and GRO a/b/g. Specific cytokine receptors for IL-1, and tumor necrosis factor-alpha, function as proinflammatory cytokine inhibitors.

This is supported by recently published results from an investigator-initiated clinical study conducted in China which reported that allogeneic mesenchymal stem cells (MSCs) cured or significantly improved functional outcomes in all seven treated patients with severe COVID-19 pneumonia.2

AmnioBoost

AmnioBoost was originally developed for chronic adult inflammatory conditions such as osteoarthritis, but has found multiple uses in the treatment of bone and cartilage repair, as well as soft tissue repair. It is an investigational therapy comprising concentrated allogeneic MSCs and cytokines derived from amniotic fluid.

The amniotic fluid is donated from non-related, healthy mothers and recovered by caesarian section; the baby is not harmed in any way. Additionally, AmnioBoost has been injected in over 1,000 patients with no adverse events, and appears to be well tolerated.

References

2. Leng Z, et al. Transplantation of ACE2- Mesenchymal Stem Cells Improves the Outcome of Patients with COVID-19 Pneumonia[J]. Aging and Disease, 10.14336/AD.2020.0228
About Lattice Biologics Ltd.:

Lattice Biologics is traded on the TSX-V under the symbol: LBL. The Company is an emerging leader in the field of cellular therapies and tissue engineering, with a focus on dental indications.

Lattice Biologics develops and manufactures biologic products to domestic and international markets. The Company’s products are used in a variety of surgical applications.

Lattice Biologics maintains its headquarters, laboratory and manufacturing facilities in Belgrade, Montana as well as offices in Phoenix, Arizona. The facility includes ISO Class 1000 clean rooms, and specialized equipment capable of crafting traditional allografts and precision specialty allografts for various clinical applications. The Lattice Biologics team includes highly trained tissue bank specialists, surgical technicians, certified sterile processing and distribution technicians, and CNC operators who maintain the highest standards of aseptic technique throughout each step of the manufacturing process. From donor acceptance to the final packaging and distribution of finished allografts, Lattice is committed to maintaining the highest standards of allograft quality, innovation, and customer satisfaction.

Lattice Biologics maintains all necessary licensures to process and sell its tissue engineered products within the U.S. and internationally. This includes Certificates to Foreign Governments from the U.S. Food and Drug Administration (FDA) and registrations for multiple countries, which allow the export of bone, tendon, meniscus, ligament, soft tissue, and cartilage products outside of the U.S.

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