Lattice Biologics to Evaluate Anti-Inflammatory Stem Cell Therapy Treatment of COVID-19 Lung Disease

BELGRADE, Mont.--(BUSINESS WIRE)--March 13, 2020--**Lattice Biologics Ltd.** (TSX-V: LBL) (OTCQB: LBLTF) ("**Lattice Biologics**" or the "**Company**") today announced that it plans to evaluate its amniotic fluid concentrate, AmnioBoost, in patients with acute respiratory distress syndrome (ARDS) caused by coronavirus (COVID-19)

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

1. Liu Y et al. Clinical features and progression of acute respiratory distress syndrome in coronavirus disease 2019. Medrxiv 2020; https://doi.org/10.1101/2020.02.17.20024166
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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Certain information contained in this news release constitutes "forward-looking statements" within the meaning of the 'safe harbour' provisions of Canadian securities laws. All statements herein, other than statements of historical fact, are to be considered forward looking. Generally, forward-looking information can be identified by the use of forward-looking terminology such as "planned", "potential", "future", "expected", "could", "possible", "goal", "intends", "will" or similar expressions. Forward-looking statements in this news release include, without limitation: information pertaining to the Company's strategy, plans, or future financial performance, such as statements with respect to the Transaction, and other statements that express management's expectations or estimates of future performance. Forward-looking statements involve known and unknown risks, uncertainties and other factors that may cause the actual results, level of activity, performance or achievements of Lattice to be materially different from those expressed or implied by such forward-looking statements.

Forward-looking statements are necessarily based upon a number of factors and assumptions that, while considered reasonable by management as of the date such statements are made, are inherently subject to significant business, economic and competitive uncertainties and contingencies. The factors and assumptions that could prove to be incorrect, include, but are not limited to: that market prices will be consistent with expectations, the continued availability of capital and financing, and that general economic, market and business conditions will be consistent with expectations. The forward-looking statements are not guarantees of future performance. We disclaim any obligation to update or revise any forward-looking statements, except as required by law. Readers are cautioned not to put undue reliance on these forward-looking statements.

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