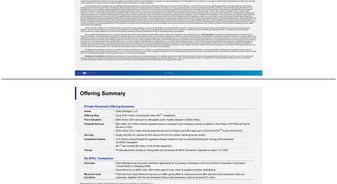

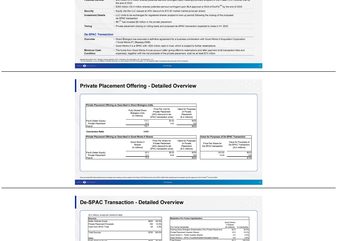

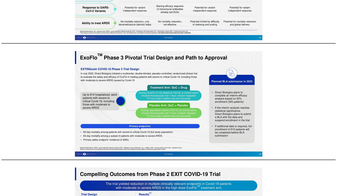

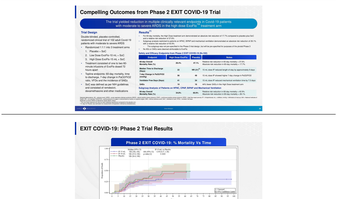

EX-99.2 6 ea166468ex99-2_goodworks2.htm INVESTOR PRESENTATION
Exhibit 99.2

Next - Generation Life Saving Solutions Corporate Overview – September 202

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For example, staements con cer ning the folowing include forward - loking staements: Direct Biologics’ abilty to identify, develop and commercialize product candidate s; the initation, cost, timing, progres and results of research and evelopment activites, preclinical or clinical trials wit h respect Direct Biologics’ drug candidates; future revenue, expenses, capital requirements and neds for aditonal financing; projections for market oportu nit y; the therapeutic potential of the Company's product candidate; financing and other busines milestones and the potential ef ec ts of the proposed Busines Combination on God Works and Direct Biologics and related capital raisng activites. In some cases, you can identi fy forward - loking statements by terminology such as “may”, “should”, “expect”, “intend”, “wil”, “estimate”, “anticpate”, “believ e”, “predict”, “plan”, “potential” or “continue”, or the negatives of these terms or variations of them or similar terminology. 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Factors that m ay cause actual results to difer materialy from curent expectations include, but are not limited to, various factors beyond D ire ct Biologics management’s control including general economic and geopolitcal conditons as wel as factors asociated with companies, such as Direct B iol ogics, that are ngaged in preclinical studies and other esearch and development activites in the biopharmaceutical industr y, including uncertainty in the timing or esults of preclinical studies and clinical trials, the impact of competive product candidates; abilty to obtain su fcient suply of materials; product aceptance and/or eceipt of regulatory aprovals for product candidates, and including an y delays and other impacts from the Covid - 19 pandemic. Nothing in this Presentaion should be regarded as a representation by any person that he forward - lokin g staements et forth herin wil be achieved or that any of the contemplated results of such forward - loking statements wil b e achieved. 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In conection therewith, Direct Biologics and God Works intend to enter into busines combination or similar agrement and God Works, or a to be formed entiy, intends to file with the SEC a registrati on staement on Form S - 4 whereby, upon the closing of the transaction, each Clas B Unit wil be canceld and converted into a numb er of shares of capital stock of a newly organized corporation or other busines entiy listed on a national securites exchange. Particpants in the Solictaion . God Works and its directors and executive ofcers may be demed participants in the solictaion of proxies from God Wor ks’ shareholders with respect o the proposed Busines Combination. A list of the names of those directors and executive ofcers and a description of their interest in God Works is contained in God Works’ final prospectus relating t o i ts inital public ofering, July 13, 2021, which was filed with the SEC and is available fre of charge at he SEC’s website at ww.sec.gov. Aditonal information regarding the interest of such participants wil be contained in the proxy staement/prospectus for the proposed Bu sines Combination when available.

Direc t B iologics 3 Ofering Summary Private Placement Ofering Summary Isuer • Direct Biologics, LC Ofering Size • Up to $10 milion (including $5 milion IB1 (1) investment) Pre - $ Valuation • $540 milion (20% discount o anticipated public market valuation of $675 milion) Potential Earnout • $325 milion potential earnout contingent upon 2023 BLA aproval or EUA of ExoFlo TM Security • Equity into the LC (isued at 20% discount o $10.0 implied market price per share) Investment Details • LC Units to be xchanged for egistered shares (subject o lock - up eriod) folowing the closing of the proposed de - SPAC transaction • IB1 (1) has invested $5 milion in the private placement Timing • Private placement closing on roling basi and proposed de - SPAC transaction expected to close in Q1 2023 De - SPAC Transaction Overview • Direct Biologics has executed a leter of intent o enter into a busines combination with God Works I Acquistion Corporat ion (“God Works I”) (Nasdaq:GWI) • God Works I is a SPAC with $230 milion cash in trust, which is ubject o redemptions Minimum Cash Conditon • The funds from God Works I trust acount (after giving efect o redemptions and after payment of al transaction fes and expenses), together with the net proceds of the private placement, shal exced $75 milion Selcted abreviations: BLA = Biologics License Aplication; EUA = Emergency Use Authorization; IB1 = IB Investments 1 LC. 1 IB1 (IB Investments 1 LC) is an afliate of I - Bankers Securites, Inc. and is owned by the CEO of IB Capital, LC, the Placem ent Agent. No placement fes wer paid on IB1's investment.

Direc t B iologics 4 Private Placement Ofering - Detailed Overview Does not include $325 milion potential earnout contingent upon 2023 BLA aproval or EUA of ExoFlo TM . Private Placement Ofering as Described in Direct Biologics Units Fuly Diluted Direct Biologics Units (in milions) Price Per Unit for Private Placement (20% discount o de- SPAC transaction price) Value for Purposes of Private Placement ($ in milions) Pre-$ (Seler Equity) 13.2 $4.7 $540.0 Private Placement 21.0 4.7 10.0 Post-$ 134.1 $640.0 Conversion Ratio 0.597 Private Placement Ofering as Described in God Works I Shares Value for Purposes of De-SPAC Transaction God Works I Shares (in milions) Price Per Share for Private Placement (20% discount o de- SPAC transaction price) Value for Purposes of Private Placement ($ in milions) Price Per Share for De-SPAC transaction Value for Purposes of De-SPAC Transaction ($ in milions) Pre-$ (Seler Equity) 67.5 $8.0 $540.0 $10.0 $675.0 Private Placement 12.5 8.0 10.0 10.0 125.0 Post-$ 80.0 $640.0 $80.0

Direc t B iologics 5 De - SPAC Transaction - Detailed Overview Asumes no redemption of $230 milion cash in SPAC trust and no excise tax under the Inflation Reduction Act. Does not includ e $ 325 milion potential earnout contingent upon 2023 BLA aproval or EUA of ExoFlo TM . ($ in milions, except per share/unit dat) Ilustrative Pro Forma Valuation Pro Forma God Works I Shares Outsanding (in milions) 109.4 Share Price $10.0 Pro Forma Equity Value $1,094.0 Les: Cash (305.0) Pro Forma Enterprise Value $789.0 Sources Seler Rolover Equity $675.0 67.2% Private Placement Proceds 10.0 10.0% Cash from SPAC Trust 230.0 2.9% Total Sources $1,05.0 10.0% Uses Seler Rolover Equity $675.0 67.2% Cash to Company from Private Placement 10.0 10.0% Cash to Company from SPAC 205.0 20.4% Estimated Transaction Cost 25.0 2.5% Total Uses $1,05.0 10.0%

Company Overview

7 Direc t Biologics Overview Who We Are Our Mision Value Propositon L ate - stage biotechnology company focused on shepherding the next paradigm shift in medicne with its new platform of potential therapeutics caled extracelular vesicles (EVs); the platform consits of a form of stem cel therapy without he cels, DNA or mitochondria To revolutionize the standard of care (SoC) for patients globaly by harnesing the natural power of regenerative EV technology Development and commercialization of ExoFlo TM , the first MSC derived EV therapeutic andidate in Phase 3 clinical development, through expertise in manufacturing, R&D, quality asurance, clinical operations and regulatory afairs

Direc t B iologics 8 Sascha Qian Sengupta, M.D. Asociate Chief Medical Ofcer Vikram Sengupta, M.D. Chief Medical Ofcer John Vacalis, J.D. Chief Legal Ofcer Executives Mark Adams Chief Executive Ofcer Co - Founder Joe Schmidt President Co - Founder Jef Mims Chief Financial Ofcer Tim Mosely, Ph.D. Chief Science Ofcer

Direc t Biologics 9 Key Investment Highlights Proprietary extracelular vesicle (EV) platform technology derived from bone marow mesenchymal stem cels (bmMSCs) ExoFlo TM is a therapeutic andidate isolated from human bmMSCs, containing growth factors and EVs, including exosomes Ongoing “EXTINGuish COVID - 19” Phase 3 clinical trial in acute respiratory distres syndrome (ARDS) induced by Covid - 19, with submision of a Biologics License Aplication (BLA) and Emergency Use Authorization (EUA) planed in 2023 Potential wide range of aditonal future oportunites for ExoFlo in other inflammation and tisue repair indications Aditonal near - term Investigational New Drug (IND) clinical trials planed in al - cause ARDS, mild to moderate Covid - 19, post - acute and chronic post - Covid - 19 syndrome, ulcerative colits, Crohn’s disease and solid abdominal organ transplant

Direc t B iologics 10 ExoFlo TM ExoFlo is a first - in - clas, next - generation biologic leveraging the Company’s proprietary EV platform technology Source: EVs isolated from human bmMSCs Components: Lipid nanovesicles containing 1,00+ regulatory chemokines and other natural signals including mRNA and miRNA Mechanism : Reduce inflammation, repair tisue by activating self - repair pathways and promote healing at he celular level Selcted abreviations: bmMSC = bone marow mesenchymal stem cel; EV = extracelular vesicle; miRNA = micro ribonucleic acid ; m RNA = mesenger ibonucleic acid.

Direc t B iologics 1 ExoFlo TM ExoFlo is a potent acelular EV product candidate that is anti - inflammatory, non - immunogenic and designed to bypas the drawbacks of traditonal stem cel therapies EVs bypas the drawbacks of traditonal stem cel therapies • The secretd EVs of bmMSCs can reproduce similar biological activity to MSCs without requirng the transplantation of MSCs themselves • The smal size of the EVs in ExoFlo wil avoid capilary thrombosi, but are stil powerful anti - inflammatory and non - immunogenic therapeutic signals • EVs have a wide aray of regulatory proteins to stimulate many proceses within the normal healing cascade EVs are derived from human bmMSCs and play a critcal role in immune regulation and regeneration • Clinicans increasingly recognize that he mechanism of transplanted MSCs is not engraftment or diferentiation in the target isue, but rather cel - to - cel communication known as paracrine signaling • ExoFlo contains an aray of over 1,00 growth factors and chemokines, including exosomes, which deliver mRNAs and miRNAs ecretd from MSCs • EVs are paracrine mediators of anti - inflammatory response, immune regulation, tisue regeneration and repair EVs regulate the immune response and promote tisue repair • ExoFlo provides molecular and protein signals that have ben shown to stimulate bioactivity and direct celular communication • By activating and recruitng local cels, ExoFlo can reduce overactive inflammatory response and restore healing Selcted abreviations: bmMSC = bone marow mesenchymal stem cel; EV = extracelular vesicle; miRNA = micro ribonucleic acid ; m RNA = mesenger ibonucleic acid; MSC = mesenchymal stem cel.

Direc t B iologics 12 Virginia mother eunited with newborn after going into Covid - 19 induced coma (1) ExoFlo TM for Compasionate Use Selcted abreviations: EV = extracelular vesicle; FDA = Fod and Drug Administration; MSC = mesenchymal stem cel. ExoFlo is an investigational product, the safety and efcacy of which continues to be valuated in ongoing or planed clinic al trials. The xperiences described above may not be representative of other experiences or future xperiences with the investi gat ional product. ExoFlo has not ben aproved for any use in any jurisdiction and may not be in the future. 1 Please se htps:/ww.fox5dc.om/news/virginia - mother - reunited - with - newborn - after - going - into - coma - due - to - covid - 19, which inclu des more information. 2 Please se htps:/my.clevelandclinic.org/patient - stories/581 - man - undergoes - first - in - world - multi - organ - transplant - to - treat - rare - apendix - cancer, which includes more information. Alma Zepeda Andy Voge Cleveland Clinic performs f irst - in - world f ul multi - organ t ransplant o treat r are a pendix c ancer (2) “In a last - ditch efort, Zepeda was given ExoFlo … an investigational therapeutic available under compasionate mergency use by the FDA. ” “Andy underwent a procedure perfected and performed by Dr. Lightner [of Cleveland Clinic’s Center for Regenerative Medicne and Surgery]. She administered thre doses of MSC derived [EVs], a… novel treatment for solid organ transplants.”

Direc t B iologics 13 Clinical Pipeline ExoFlo TM Indication Discovery / Preclinical Phase 1 Phase 2 Phase 3 Anticipated Milestones (1) Moderate to Severe ARDS Induced by Covid - 19 Initated Ph 3 in Q3 202 Planed BLA and EUA Submision in 2023 Mild to Moderate Covid - 19 Initate Ph 2 in 2023 Al - Cause ARDS Initate Ph 1/2 in Q1 2023 Post - Acute and Chronic Post - Covid - 19 Syndrome Initate Ph 1/2 in 2023 Ulcerative Colits (2) Initate Ph 1 in Q4 202 Crohn’s Disease (2) Initate Ph 1 in Q4 202 Solid Abdominal Organ Transplant (3) Initate Ph 1 in Q1 2023 ARDS and/or Covid - 19 GI Other EXTINGuish COVID - 19 EXIT ARDS Selcted abreviations: ARDS = acute respiratory distres syndrome; BLA = Biologics License Aplication; EUA = Emergency Use Aut horization. 1 Estimated ates only; actual milestones may difer materialy. 2 Medicaly refractory. 3 At risk of worsening alograft function with conventional immunosupresive therapy alone.

Direc t B iologics 14 Direct Biologics Upcoming Anticpated Milestones Direct Biologics anticpates ignificant news flow in the next 12 months Q4 202 Q4 2023 Q1 2023 Submit BLA and EUA for moderate to severe ARDS induced by Covid - 19 Initate Phase 2 trial in mild to moderate Covid - 19 Initate Phase 1/2 trial in post - acute and chronic post - Covid - 19 syndrome Initate Phase 1 trial in ulcerative colits Initate Phase 1 trial in Crohn’s disease Selcted abreviations: ARDS = acute respiratory distres syndrome; BLA = Biologics License Aplication; EUA = Emergency Use Aut horization. Estimated dates only; actual milestones may difer materialy. Q2 2023 Q3 2023 Expected final transaction closing Initate Phase 1/2 “EXIT ARDS” trial in al - cause ARDS Initate Phase 1 trial in solid abdominal organ transplant

ExoFlo TM for ARDS induced by Covid - 19

Direc t B iologics 16 Acute Respiratory Distres Syndrome (ARDS) ARDS is an inflammatory lung injury that ocurs when fluids build up in air sacs in the lungs and is often fatl; ARDS can be caused by many conditons, including Covid - 19, influenza, pneumonia nd trauma No Aproved Products in US Significant Unmet Ned in US Direct Biologics’ Solution: ExoFlo TM • 40 - 50% mortality rate among patients with moderate to severe ARDS • $10,00 - 150,00 average cost of ICU stay for ARDS • Anual intensive care xpenditure xceding $80 bilion with ARDS representing 15% of the cause for ICU admisions Compeling clinical data sugest he potential of ExoFlo to treat moderate to sever ARDS induced by Covid - 19 with a favorable tolerabilty profile ExoFlo has ben shown to reduce inflammation and activate local cels to repair tisue damage; ExoFlo reduces neutrophils and increases CD4 & CD8 T Cels • There are curently no aproved treatments for ARDS in the US despite decades of clinical trials • Curent mainstay of management is low tidal volume mechanical ventilation Selcted abreviation: ARDS = acute respiratory distres syndrome. Moderate to severe ARDS as defined by clasic Berlin criteria.

Direc t B iologics 17 Inital Focus on Moderate to Severe ARDS Induced by Covid - 19 Direct Biologics’ strategic inital focus on moderate to severe ARDS induced by Covid - 19 has enabled the Company to develop ExoFlo TM pursuant o an expedited regulatory path Treated Patients During Discretionary Period • In 2019 - 2021, during the FDA’s discretionary enforcement period for certain regenerative medicines, ExoFlo was launched as a tisue alograft for homologous use • ExoFlo has ben used in multiple investigator - initated trials for various indications with no reportable safety events Completd Sucesful Phase 1 and Phase 2 Trials • In April 2020, the first in - human study for ExoFlo demonstrated that 17 out of 24 hospitalized patients with ARDS induced by Covid - 19 experienced reversal of hypoxia folowing treatment with ExoFlo • The Phase 2 “EXIT COVID - 19” trial demonstrated safety, dosing regiment and efcacy Ongoing Phase 3 Clinical Trial Under RMAT Designation • In July 202, the Company initated its multicenter, double - blinded, placebo - controled, randomized pivotal Phase 3 trial of ExoFlo in ARDS induced by Covid - 19 • ExoFlo also received RMAT designation, which provides oportunites to potentialy expedite development and FDA review Planed Submision of BLA and EUA of ExoFlo in Moderate to Sever ARDS Induced by Covid - 19 in 2023 Selected abreviations: ARDS = acute respiratory distres syndrome; BLA = Biologics License Aplication; EUA = Emergency Use Aut horization; FDA = Fod and Drug Administration; RMAT = Regenerative Medicine Advanced Therapy. Moderate to severe ARDS as defined by clasic Berlin criteria.

Direc t B iologics 18 Curent US Standard of Care for Covid - 19 Smal Molecule Drugs Vacines, Monoclonal Antibodies MSC Celular Therapies Direct Biologics’ Aproach: ExoFlo TM Synthetic Synthetic Natural with synthetic adulterants Natural Reported alergic reactions, organ injury Reported alergic reactions, organ injury Reported pulmonary emboli (“lung clots”, alergic reaction) No reportable AEs observed in Phase 1 and 2 clinical trials Antiviral Antiviral Anti - inflammatory, regenerative properties Anti - inflammatory, regenerative properties Potential for variant independent response Waning efcacy response (2 monoclonal antibodies already lost EUA) Potential for variant independent response Potential for variant independent response No mortality reduction, only dexamethasone (steroid) helps No mortality reduction, not efective Potential imited by difculty of redosing and scaling Potential for mortality reduction and global delivery Provenance Tolerabilty Mechanism of Action Response to SARS - CoV - 2 Variants Abilty to treat ARDS Selcted abreviations: AE = adverse vent; ARDS = acute respiratory distres syndrome; EUA = Emergency Use Authorization; EV = extracelular vesicle; MSC = mesenchymal stem cel. These dat are derived from difernt clinical trials at diferent ime points in time, with difernces in trial design and pat ient populations. No head - to - head clinical trials have ben conducted.

Direc t B iologics 19 ExoFlo TM Phase 3 Pivotal Trial Design and Path to Aproval Selcted abreviations: ARDS = acute respiratory distres syndrome; BLA = Biologics License Aplication; mL = mililters; SA E = serious adverse vent; SoC = standard of care. Severe to critcal Covid - 19 as defined by the Fod and Drug Administration (FDA) and moderate to severe ARDS as defined by clas ic Berlin criteria. EXTINGuish COVID - 19 Phase 3 Trial Design In July 202, Direct Biologics initated a multicenter, double - blinded, placebo - controled, randomized clinical trial to evaluate the safety and efcacy of ExoFlo in treating patients with sever to critcal Covid - 19, including those with moderate to severe ARDS caused by Covid - 19 Treatment Arm: SoC + Drug Up to 610 hospitalized, adult patients with severe to critcal Covid - 19, including those with moderate to severe ARDS Dosing: ExoFlo - 15 mL diluted to 10 mL in normal saline infused intravenously over 1 hour; infusion repeated 72 hours later if patient has not recoverd Placebo Arm: SoC + Placebo Dosing: equivalent volume (10 mL) of normal saline infused intravenously over 1 hour; infusion repeated 72 hours later if patient has not recovered • 60 - day mortality among patients with severe to critcal Covid - 19 (ful study population) • 60 - day mortality among a subset of patients with moderate to sever ARDS • Primary safety endpoint: incidence of SAEs • Direct Biologics plans to complet an interim efcacy analysi based on 50% enrolment (305 patients) • If the interim analysi reaches tatistical significance, Direct Biologics plans to submit a BLA with the dat and suspend enrolment in the trial • If aditonal dat is required, ful enrolment of 610 patients wil be completed before BLA submision Planed BLA submision in 2023 Primary endpoints:

Direc t B iologics 20 Compeling Outcomes from Phase 2 EXIT COVID - 19 Trial Selcted abreviations: AE = adverse vent; ARDS = acute respiratory distres syndrome; BiPAP = bilevel positve airway pres ure ; CPAP = continuous positve airway presure; HFNC = high - flow nasal canula; IP = intraperitoneal; mL = mililters; mmHg = mil imeters of mercury; NIH = National Instiutes of Health; NR = not reached; PaO2/FiO2 = partial presure of oxygen in arterial blod to fraction of inspired oxygen; SAE = seri ous adverse vent; SoC = standard of care; VFDs = ventilator fre days. Moderate to severe ARDS as defined by clasic Berlin criteria. 1 The Low Dose treatment arm did not reach statistical significance compared to the placebo arm. 2 31 days for Placebo was estimated via nonparametric extrapolative methods by biostatisticans. Results (1) • For 60 - day mortality, the High Dose treatment arm demonstrated an absolute risk reduction of 17.7% compared to placebo plus SoC and a relative risk reduction of 37.6% • Subgroup analysi restricted to patients on HFNC, BiPAP and mechanical ventilation demonstrated an absolute risk reduction of 26 .1% with a relative risk reduction of 42.9% - The subgroup was not pre - specified in the Phase 2 trial design, but wil be pre - specified for purposes of the pivotal Phase 3 • No AEs or SAEs wer demed atributable to ExoFlo 60 - day Overal Mortality Rate (%) 29.4% 47.1% Relative risk reduction in 60 - day mortality = 37.6% Absolute risk reduction in 60 - day mortality = 17.7% Median Time to Discharge (Days) 2 NR (31) (2) 15 mL dose IP reduced length of stay by aproximately 9 days 7 - day Change in PaO2/FiO2 (mmHg) 56 49 15 mL dose IP showed higher 7 - day change in PaO2/FiO2 Ventilator Fre Days (Days) 41 34 15 mL dose IP reduced mechanical ventilation time by 7.3 days SAEs 10 16 4% fewer SAEs in the High Dose treatment arm Safety and Efcacy Endpoints from Phase 2 EXIT COVID - 19 (N=102) Subgroup Analysi of Patients on HFNC, CPAP, BiPAP and Mechanical Ventilation Endpoint High Dose ExoFlo Placebo Notes Trial Design Double - blinded, placebo - controled, randomized clinical trial of 102 adult Covid - 19 patients with moderate to severe ARDS • Randomized 1:1:1 into 3 treatment arms 1. Placebo + SoC 2. Low Dose ExoFlo - 10 mL + SoC 3. High Dose ExoFlo - 15 mL + SoC • Treatment consited of one to two 60 - minute infusions of ExoFlo dosed 72 hours apart • Topline ndpoints: 60 - day mortality, time to discharge, 7 - day change in PaO2/FiO2 ratio, VFDs and the incidence of SAEs • SoC was defined as per NIH guidelines and consited of remdesivir, dexamethasone and other medications The trial yielded reduction in multiple clinicaly relvant endpoints in Covid - 19 patients with moderate to severe ARDS in the high dose ExoFlo TM treatment arm 60 - day Overal Mortality Rate (%) 34.8% 60.9% Relative risk reduction in 60 - day mortality = 42.9% Absolute risk reduction in 60 - day mortality = 26.1%

Direc t B iologics 21 EXIT COVID - 19: Phase 2 Trial Results Selected abreviations: CI = confidence interval; IP = intraperitoneal; mL = mililters; NR = not reached. Phase 2 EXIT COVID - 19: % Mortality Vs Time

Direc t B iologics 2 EXIT COVID - 19: Phase 2 Trial Results (continued) Selcted abreviations: CI = confidence interval; IP = intraperitoneal; mL = mililters; NR = not reached. Time to discharge is the interval in days from randomization to discharge from the hospital. The interval is censored to 60 d ays if the subject did not discharge. Phase 2 EXIT COVID - 19: Time to Discharge

EXIT COVID-19: Phase 2 Trial Results Comparison

The Phase 2 trial results suggest that ExoFlo™ could be more effective than Remdesivir and Tocilizumab for the treatment of ARDS induced by Covid-19

	Remdesivir 28-day Mortality [1][2]	Tocilizumab 28-day Mortality [3]	ExoFlo 30-day Mortality	ExoFlo 60-day Mortality
Absolute Risk Reduction	-1.4%	-0.3%	8.8%	17.7%
Relative Risk Reduction	-7.2%	-1.5%	24.9%	37.6%

Phase 1 Clinical Trial Demonstrated Positive Results

An independent pilot study of ExoFlo™ at the start of the pandemic demonstrated positive results in ARDS induced by Covid-19

Trial Origin

- In April 2020, independent investigators performed an IRB-approved clinical trial using ExoFlo to treat 24 patients with moderate to severe ARDS due to Covid-19
- The independent pilot study demonstrated reversal of hypoxia following treatment with ExoFlo
- The results of this trial were used as Phase 1 data to support Direct Biologics's IND submission allowing the Company to proceed directly into the Phase 2 "EXIT COVID-19" trial

Trial Outcome

- After a single dose, 17 of 24 patients demonstrated reversal of hypoxia
  - Discharged from hospital within 5-6 days
  - 50% median time to recovery from a single dose compared to that observed over a 10-day course of Remdesivir (11 days)

Discharged within **5-6 days**

17/24 Patients

Time to recovery **50% of Remdesivir**

ExoFlo™ Expanded Access Protocol for Intermediate Population

Positive Data to Date

Open-label, compassionate use study demonstrated positive outcomes in patients with moderate to severe ARDS induced by Covid-19 to date

Background and Methods

- The Company is actively enrolling the open-label clinical trial of ExoFlo in adult Covid-19 patients with moderate to severe ARDS under an expanded access protocol authorized by the FDA
- Single arm study, eligible patients treated on a 2:1 basis of High Dose intravenous ExoFlo, which is administered in 72-hour intervals
- Endpoints include 60-day mortality, 7-day changes in PaO2/FiO2, TTD, VFDs and the incidence of SAEs
- Safety assessed by every patient

Data Readout [4][5]

- Safety analysis performed by the independent DSMB for the first 50 patients.
  - No SAEs related to ExoFlo
- Ad hoc efficacy analysis also performed which revealed the following outcomes for 29 patients
  - 30-day mortality rate was 20.8% (6 patients), significantly below SoC mortality rates of 40% to 50% or greater
  - 7-day change in PaO2/FiO2 was + 132 mmHg, reflecting an improvement in oxygenation
  - Median TTD: 6.6 days
  - VFDs for non-intubated patients: 45.6 days
  - Proportion of non-intubated patients progressing to intubation: 8.3%

Upcoming Clinical Trial of ExoFlo™ in All-Cause ARDS Indication

EXIT ARDS Phase 1/2 Trial Design

In Q1 2023, Direct Biologics plans to initiate a placebo-controlled, randomized Phase 1/2 clinical trial to evaluate the safety and efficacy of ExoFlo in treating moderate to severe all-cause ARDS

~81 adult patients with moderate to severe ARDS

- **Treatment Arm 1: SoC + 5mg** — Dosing: ExoFlo 5 mL diluted to 100 mL in normal saline, infused intravenously over 1 hour, total of two infusions
- **Treatment Arm 2: SoC + 10mg** — Dosing: ExoFlo 10 mL diluted to 100 mL in normal saline, infused intravenously over 1 hour, total of two infusions
- **Placebo Arm: SoC + Placebo** — Dosing: equivalent volume (10 mL) of normal saline infused intravenously over 1 hour, total of two infusions

Primary endpoints:

- Number of patients with all-cause mortality at 28-days
- Primary safety endpoint: incidence of SAEs

Secondary endpoints:

- VFDs at 28 days
- Changes in PaO2/FiO2 ratio from pre-infusion baseline to day 7 – PaO2 may be calculated from ABG or imputed from the SpO2 data

Planned Clinical Trials of ExoFlo™ in Two New Covid-19 Indications

Direct Biologics plans to initiate two additional clinical trials in 2023 in Covid-19 indications

Phase 2: Mild to Moderate Covid-19

- Enrollment: 60 mild to adult participants
- Allocation: Randomized
- Masking: Triple (Participant, Care Provider, Investigator)
- Three arms: placebo arm, low dose treatment arm and high dose treatment arm

Primary endpoint:

- Change in SARS-CoV-2 rtg viral load from baseline to day 7

Secondary endpoints:

- Change in viral load AUC from baseline to day 28
- Proportion of patients showing symptom improvement or resolution at 07 days
- Proportion of patients who required Covid-19 related hospitalization or ED for day 28

Phase 1/2: Post-Acute and Chronic Post-Covid-19 Syndrome

- Enrollment: 60 adult participants
- Allocation: Randomized
- Masking: Quadruple (Participant, Care Provider, Investigator, Outcomes Assessor)
- Two arms: placebo arm and treatment arm

Primary endpoints:

- Increased distance on 6MWT at 07 days
- Safety (Incidence of SAEs)

Secondary endpoints:

- FEV1 at 07 days
- MRC Dyspnea Scale

Three Additional Planned Clinical Trials of ExoFlo™

Direct Biologics plans to initiate three additional upcoming clinical trials in ulcerative colitis, Crohn's disease and solid abdominal organ transplant

Phase 1: Ulcerative Colitis

An open-label Phase 1 trial of ExoFlo for the treatment of moderately-severely UC

- Estimated enrollment: 12 adult participants
- Allocation: Non-randomized

Outcome measurements:

- Number of subjects who tolerate 5 ml ExoFlo in three infusions given intravenously over 1 hour on days 1, 3 and 5 (which are intended to be 0 or more IUIBs per 7d week)
- Number of IUIBs in subjects who received 15 ExoFlo in three infusions with moderately to severely active UC who have failed or are intolerant to one or more mAbs

Phase 1: Crohn's Disease

An open-label Phase 1 trial of ExoFlo for the treatment of moderately-severely Crohn's disease

- Estimated enrollment: 12 adult participants
- Allocation: Non-randomized

Outcome measurements:

To evaluate the feasibility of 5 ExoFlo in subjects with moderately to severely active Crohn's disease who have failed or are intolerant to one or more mAbs over 7d weeks

To evaluate the safety of 5 ExoFlo in subjects with moderately to severely active Crohn's disease who have failed or are intolerant to one or more mAbs over 7d weeks

Expanded Access: Solid Abdominal Organ Transplant

Expanded access, open-label trial for the use of ExoFlo for the prevention of acute rejection in solid organ transplant patients who are at risk of worsening allograft function with conventional immunosuppressive therapy, or who are in advanced enrollment 3D adult participants

Outcome measurements:

- Number of participants with AEs and SAEs

Scalable Manufacturing Capabilities

The Company's proprietary EV technology is positioned to scale with global demand, including meeting rigorous FDA manufacturing requirements

- cGMP manufacturing facilities across the US, including state-of-the-art R&D facilities at the Center for Novel Therapeutics at UC San Diego and QC lab in St. Louis
- Cell banks derived from healthy human donors are GTP-compliant and have master files with the FDA
- Treatment with lot-MSC derived EVs rather than transplantation of MSCs allows for minimal batch-to-batch variability as the product can be derived from a single donor rather than harvesting from multiple donors
- Substantial progress in the development of proprietary technology using bioreactors capable of mass producing ExoFlo™, significantly increases the yield of EV production while simultaneously reducing manufacturing costs
- Key trade secrets and portfolio of patents protecting IP extensively in the US and in select jurisdictions throughout the world

Direct Biologics already has substantial cGMP manufacturing capabilities and clinical experience with ExoFlo established during the FDA's discretionary enforcement period for certain regenerative medicines

Robust Intellectual Property

Direct Biologics works to maintain its competitive position by utilizing a multi-layered approach that includes filing and prosecuting US and foreign patent applications and protecting proprietary know how as trade secrets

Patent and Trade Secret Strategy

- Focused on obtaining patents covering product technology, manufacturing and delivery processes, including the proprietary manufacturing process of refining EV therapeutics from bmMSCs and other regenerative cells
- The EV technology platform is protected by a variety of patents pending in the US and OUS, as well as closely guarded trade secrets
- Key trade secrets serve to keep manufacturing processes undisclosed
- Patents pending covering product technology, manufacturing and delivery processes, and release and stability assays
- Additional patent applications in process to obtain a range of coverage for future opportunities

Pending Patent Examples

- Applications related to MSC secretomes, methods of making them and their use in treating and preventing a variety of conditions including wounds, skin disorders, orthopedic disorders/injuries and spinal disorders/injuries
- Application related to a composition comprising a MSC secretome preparation and one or more biomolecules that selectively bind to one or more microbial microorganisms, as well as a method of treating a microbial infection
- Application related to a composition comprising a MSC secretome preparation, platelet rich plasma derived exosome preparation and a method of treating orthopedic or spinal pathology comprising administering a platelet rich plasma derived exosome preparation
- Application related to methods of treating certain hair and skin disorders
- Application related to bacterial and viral infections and subsequent inflammation related disorders

Long Term Opportunities

Direct Biologics' initial focus is on critical unmet needs with applications across inflammation and tissue repair

Multi-Billion Dollar Aggregate Market for Existing Clinical Programs

- ARDS Induced by Covid-19
- ~$5B+ ARDS and Chronic Post-Covid-19 Syndrome
- ARDS
- GI / IBD
- Transplant Rejection

Product Extensions

MDI – ExoFlo formulation for outpatient pulmonary indications

Lyophilized ExoFlo (powder formulation) – room temperature stable for ease of distribution (e.g. international markets)

Multiple Additional Potential Applications for ExoFlo™ Platform

- ALS
- Osteo-Arthritis
- Wound Care
- Hair
- Aesthetics
- Fertility

Direct Biologics Upcoming Anticipated Milestones

Direct Biologics anticipates significant news flow in the next 12 months

Expected final transaction closing

Q4 2022
- Initiate Phase 1 trial in ulcerative colitis
- Initiate Phase 1 trial in Crohn's disease

Q1 2023
- Initiate Phase 1/2 "EXIT ARDS" trial in all-cause ARDS
- Initiate Phase 1 trial in solid abdominal organ transplant

Q2 2023
- Submit BLA and EUA for moderate to severe ARDS induced by Covid-19
- Initiate Phase 2 trial in mild to moderate Covid-19
- Initiate Phase 1/2 trial in post-acute and chronic post-Covid-19 syndrome

Q3 2023

Q4 2023

AmnioWrap

Although it is not the Company's primary focus, Direct Biologics' marketed product, AmnioWrap, is currently a revenue generating product

- Placental-based allografts that contain a collagen extracellular matrix and a wide array of regulatory proteins including growth factors, cytokines and chemokines
- Addresses a wide variety of clinical needs for skin and dermal substrate applications by supporting the healing cascade in the treatment of acute and chronic wounds
- Technology marketed under three brands
  1. AmnioWrap – a single layer amnion allograft sized appropriately for ocular applications
  2. AmnioWrap2 – a tri-layer amnion allograft ideal for acute and chronic wound application in the outpatient setting and ASC surgical procedures
  3. AmnioWrap3 – a tri-layer amnion allograft sized appropriately for surgical placement, targeting hospital and ASC surgical procedures
- The AmnioWrap2 product is in the process of being sold (expected completion in Q4 2022)
- AmnioWrap2 is being evaluated in an investigator-initiated trial for the prevention and healing of incisional hernias
- Multi-billion dollar addressable market