

COVID-19: NMDP Update

**LOGISTICAL CHALLENGES
IMPACTING BLOOD STEM CELL
TRANSPORT**

Objectives

- Provide update on NMDP volumes, both domestic and international
- Describe the continued challenges presented by COVID-19 pandemic
- Highlight specific examples of collaboration and partnership to achieve international success stories



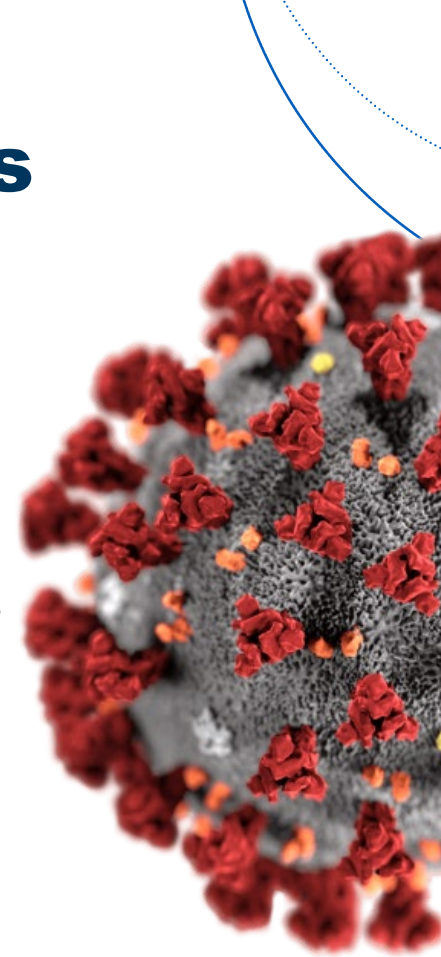
NMDP Volumes over past 4 weeks

	Week of 9/7	Week of 8/31	Week of 8/24	Week of 8/17	2019 Median
Domestic TC Formal Searches	160	189	190	172	187
International TC Formal Searches	71	111	72	101	133
Total Formal searches	231	300	262	273	321
Domestic TC Donor workup requests	173	205	150	163	157
International TC Donor workup requests	21	15	24	24	27
Domestic TC Cord order requests	8	10	15	12	14
International TC Cord order requests	2	2	2	2	3
Total workups/orders	204	232	191	201	205
Domestic TC Donor collections	88	106	82	101	96
International TC Donor collections	12	9	14	17	18
Domestic TC Cord shipments	14	15	10	7	13
International TC Cord shipments	2	1	3	3	2
Total collections/shipments	116	131	109	128	130
Domestic TC cryopreserved products	76	89	63	87	7
International TC cryopreserved products	9	9	12	14	2
Total cryopreserved products	85	98	75	101	8
Percent that are cryopreserved	85%	85%	78%	86%	8%

International donor collections: FY20 weekly median of 55

COVID-19 Transport Challenges

- **Flight delays/cancellations**
 - Flights to and from US reduced significantly by over 80%
- **Travel barriers**
 - Restrictions on foreign nationals entering the US
 - National restrictions and border closures
- **Low courier availability**
 - 80% drop in courier availability (domestic & international) due to heightened safety measures and quarantine concerns
- **Donor availability/areas available for collection**
 - 30% reduction in distance traveled by domestic couriers to collection centers
 - 39% cancel/postpone probability
- **Final hand-offs**
 - Final hand-off processes required modification due to restrictions on entering TC/infusion center



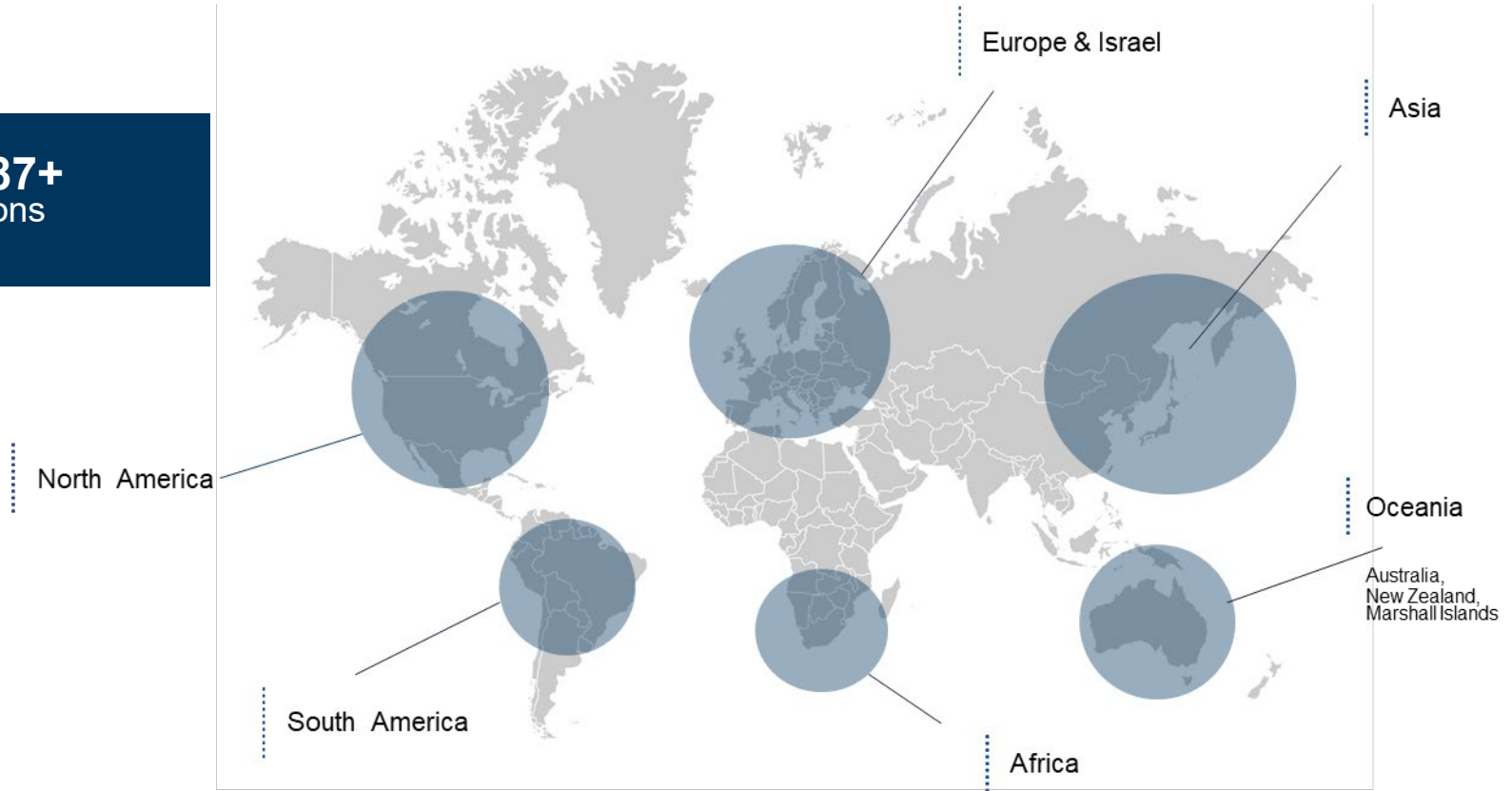
Overcoming Challenges during the Coronavirus Pandemic

- **Business continuity/emergency preparedness measures**
 - Utilizing our integrated model of case management and logistics
- **Cryopreservation guidance and support**
 - Mobilized Biobank capabilities to increase flexibility in collection and transport to ensure patient treatment windows are met
- **Multiple partnerships leveraged to cross borders**
 - Customs and Border Protection and the Transportation Security Administration (TSA); more than 42 US ports of entry
 - Utilizing more than 300 couriers and partner courier companies to move products around the world
- **Donor and patient safety measures**
 - Reduced donor travel to collection
 - 448 miles (Dec 2020-Mar 2020)
 - 277 miles (Mar 2020-May 2020)
 - Even with reduced donor travel, our staff has stepped up to move sensitive and life-saving therapies to patients in need
 - Implemented remote donor testing for HLA and IDM testing
- **Working with TCs to provide better accessibility**
 - Decreased cost of Related Donor Services to help share the risk across centers
 - More than doubled number of TCs using Related Donor Services

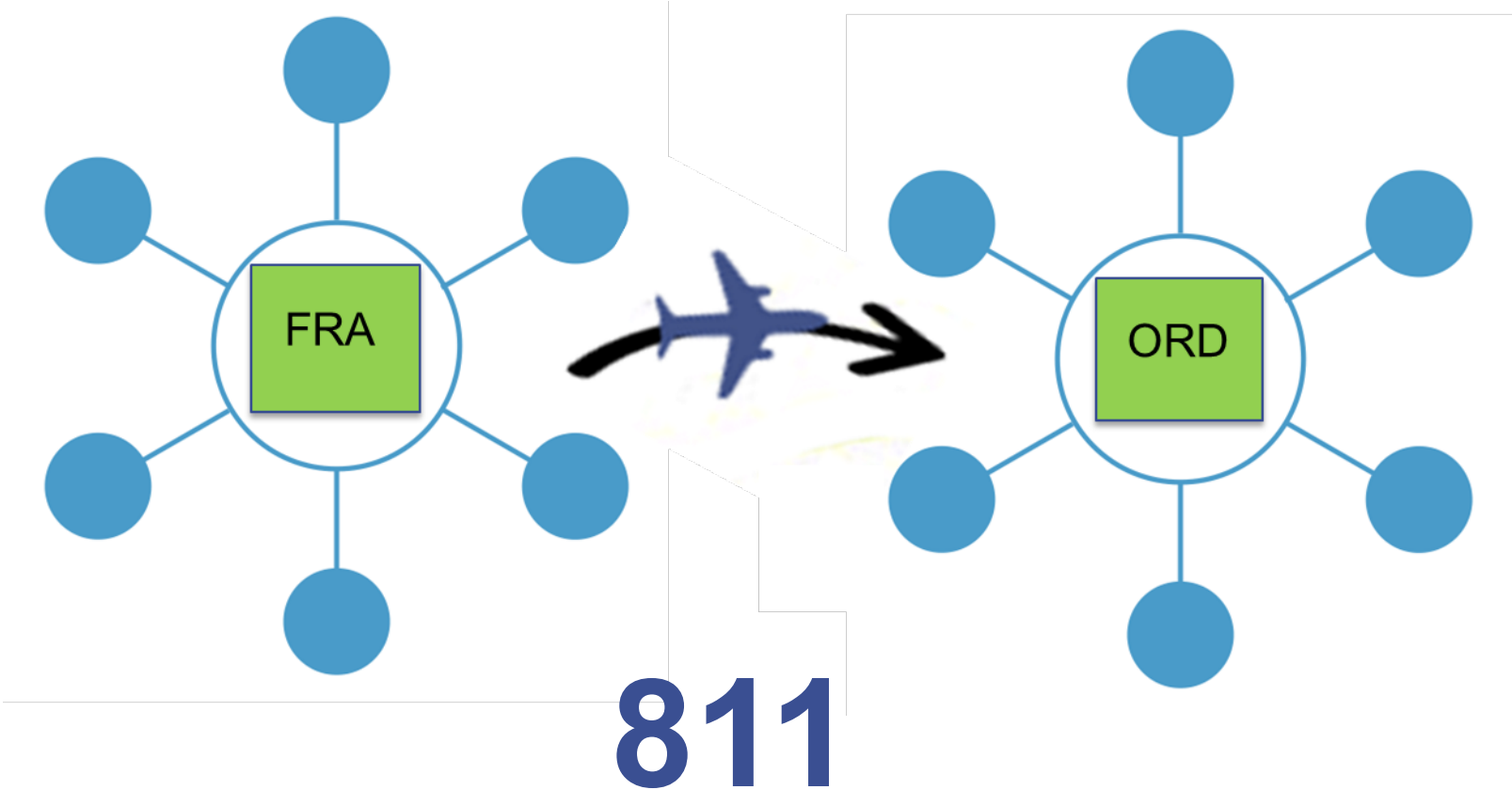


Worldwide Impact

987+
Excursions



Hub-Spoke Model Implemented



Number of Fresh Transports During Pandemic



4261

**TRANSPORTATION
LEGS COMPLETED**



2842

**TRANSPORTS
COMPLETED**



99.9%

DELIVERY SUCCESS

HRSA/Lockheed Martin Partnership

Special Thanks...

10 patient lives impacted where few viable options available for delivery of life-saving therapy

- 4 German products
- 6 Canadian products



NATIONAL
MARROW
DONOR
PROGRAM®

BE  THE MATCH®

Extraordinary Efforts

“The organization moved heaven, sea, and land to make this possible; They are angels for you and me, since they took pains to finalize all the details and protocols so that everything came out very coordinated, they treated me with much love and protection, taking care that everything was perfect for you to receive the donation without setbacks and that I was in the best possible condition before, during and after.”





Thank you