


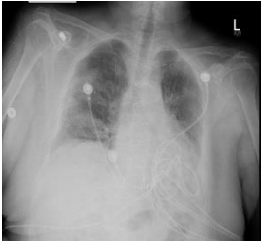

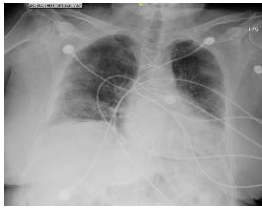


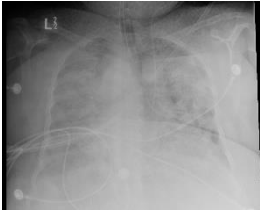



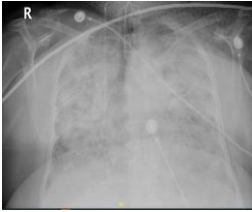








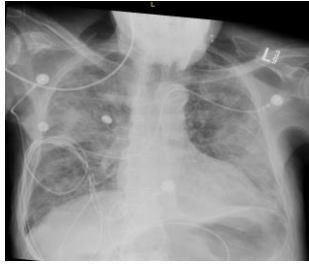






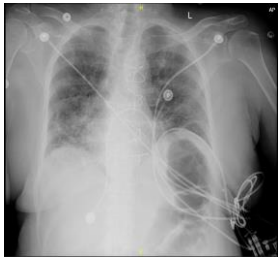

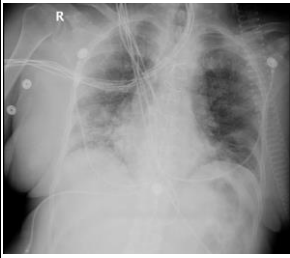


Compassionate use= 06S-005	Before Investigaitonal Drug, 6/26/2020	24- hours post Second infusion	24- hours post last infusion
Patient 1			
PaO2:FiO2	130	228.33	190
SaO2	98	99	95
PEEP			
72-hr post last infusion 	after 5days 	After 6 days 	After 9 days 
PaO2:FiO2=127	117.5	71.25	
SaO2=93	94	96	99%
PaO2:FiO2	117.5	71.25	
NIPV/PEEP	NIPV/PS15/PEEP5	HFLNC80%FiO2 60L/min	NC 10 L/min
7/17/20 	7/18/20		
SaO2 96	99		
PaO2:FiO2 =183			
6L/min	4L/min		




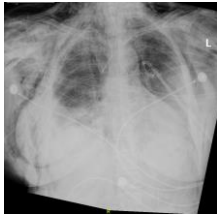
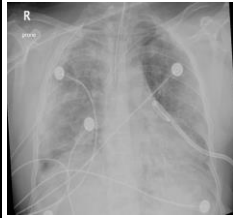


Patient 2	Before Investigational Drug	24- hours post Last infusion	48-hr post last infusion	4wks s/p Therapy
PaO ₂ :FiO ₂	146	146	285.19	
SaO ₂	98	89	95	100
FiO ₂	HFLNC 30 L/min, FiO ₂ 50%	6 L/min	2 L/min	Room Air
PEEP				
Patient 3	Before infusion 7/3/2020	24- hours post Last infusion	72hr post last infusion	
PaO ₂ :FiO ₂	54	163	246.7	
SaO ₂	91	99	99	
FiO ₂	HFLNC 60 L/min, FiO ₂ 100%	80%, MV,AC volume 24 PEEP of 10 Tidal volume 450 mL	FiO ₂ 60% AC volume 24 PEEP of 10 Tidal volume 450 mL	
Patient 3	7/17/2020	4wks After infusion		
PaO ₂ :FiO ₂	210	273		
SaO ₂	97	99		
	AC pressure 23 PEEP 10 inspiratory pressure 20, FiO ₂ 50%	AC pressure at 26 inspiratory pressure 28 PEEP 5 and FiO ₂ 40%		






Patient 4	Before infusion: 7/7/2020 	After second dose 	After third dose: 7/10/2020AM 
PaO2:FiO2	60	140	190
SaO2	93	94	97
FiO2	100% AC pressure 24 inspiratory pressure 20 PEEP 12	AC pressure 24 inspiratory pressure 20 PEEP 12 FiO2 80%	AC pressure 24 inspiratory pressure 20 PEEP 12 FiO2 80%
Patient 4	7/ 10/2020 PM  After proning with pneumothorax	7/13/2020 	7/18/2020 
PaO2:FiO2	109	81	114
SaO2	93	94	97
FiO2	100% AC pressure 24 inspiratory pressure 20 PEEP 12	90%. AC pressure 30 inspiratory pressure 22PEEP 12	80%. AC pressure 30 inspiratory pressure 22PEEP 9
	4 weeks after infusion 		
	161		
	99		
	AC pressure inspiratory pressure 25 PEEP 5 FiO2 80%		

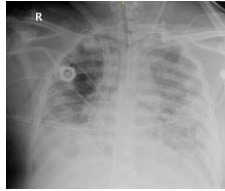



Patient 5	Before infusion 	After second dose 	72 hours after third dose 
PaO ₂ :FiO ₂	86	261	190
SaO ₂	96	99	98
FiO ₂	100%	80%	50%
Ventilator	AC pressure 13 inspiratory pressure 12 PEEP 12	AC pressure 18 inspiratory pressure 14 PEEP 14	AC pressure 14 inspiratory pressure 12 PEEP 14 FiO ₂
Patient 5	Extubated 5 days after the last dose 	2Wks After Last dose 	4 wks after last dose 
PaO ₂ :FiO ₂	156	224	696
SaO ₂	96	99	100
FiO ₂	45%	50%	2 L/min
	AIRVO45%, 60 L/min	AIRVO45%, 20L/min	

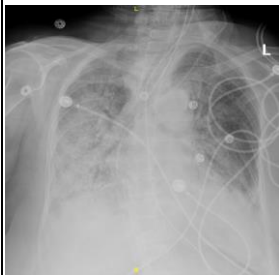



Patient 6	Before infusion 	After second dose 	72 hours after third dose 
PaO2:FiO2	198	285	113
SaO2	99	100	97
FiO2	80%	75%	75%
Ventilator	BiPAP 8/5 cm H2O alternating with HFLNC20 L/minFiO2 95%	BiPAP S/T RR 12 10/5 cm H2O FiO2 75%	HFLNC15 L/minFiO2 75%
Patient 6	5 days after last infusion 	4Wks After infusion 	
PaO2:FiO2	370		
SaO2	99	99	
FiO2	4 L/min	RA	
Ventilator			




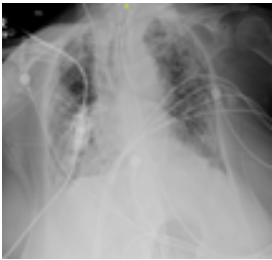
Patient 7	Before Aviptadil	After 1st Dose	After 2nd dose	After 3rd dose
Portable Chest X-Ray				
PaO ₂ :FiO ₂	87	80	83	134
SaO ₂	93	92	99	99
Oxygen Requirement	HFNC 30L 90%	40L 90%	BiPAP12/8 cm H ₂ O, FiO ₂ 100%	BiPAP 12/8 cm H ₂ O, FiO ₂ 90%
	1wkAfter infusion 			
PaO ₂ :FiO ₂	146			
SaO ₂	98			
Oxygen Requirement	HFNC 25L/min. 50%			





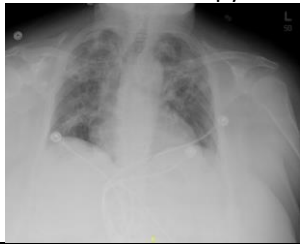
Patient 8	Before Aviptadil	24-hr post 2nd Dose	24-hr post 3rd Dose	72hr post 3rd Dose	1wk after Aviptadil	
Portable CXR						
PaO ₂ :FiO ₂	71	225	124	111	132	
SaO ₂	95	99	96	97	95	
FiO ₂ /Ventilation	AC Pressure RR 20 Pinsp 22 PEEP 12 FiO ₂ 80	AC Pressure RR 20 Pinsp 18 PEEP 12 FiO ₂ 100	AC Pressure RR 24 Pinsp 18 PEEP 10 FiO ₂ 80	AC Pressure RR 26 Pinsp 18 PEEP 8 FiO ₂ 85	AC Pressure RR 26 Pinsp 20 PEEP 6 FiO ₂ 100%	
	2wks After Therapy 	3wks after Aviptadil 				
PaO ₂ :FiO ₂	159	209				
SaO ₂	98	100				
FiO ₂ /Ventilation	AC Pressure RR 26 Pinsp 20 PEEP 7 FiO ₂ 65%	AC Pressure RR 18 Pinsp 18 PEEP 8 FiO ₂ 65%				


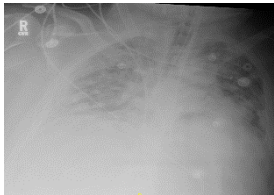
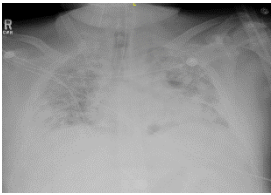


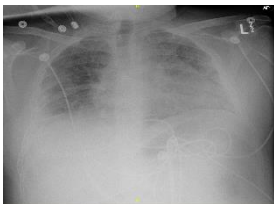


Patient 9	Before Aviptadil	24-hr post 1st Dose	72hr post 3rd Dose	1wk post 3rd Dose
Portable Chest X-Ray				
PaO2:FiO2	69	378	290	300
SaO2	93	100	100	97
Ventilation	NIPPV RR12, PEEP 6FiO2 100%	Pressure AC RR 20 Pinsp 25 PEEP 5 FiO2 100%	Pressure AC RR 34 Pinsp 32 PEEP 1 FiO2 40%	Pressure AC RR 34 Pinsp 30 PEEP 5 FiO2 40%
	1wk After Therapy 			
PaO2:FiO2	370			
SaO2	100			
Ventilation	AC Pressure RR 22 Pinsp 26 PEEP 5 FiO2 50%			

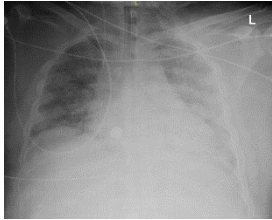
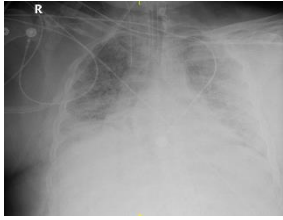
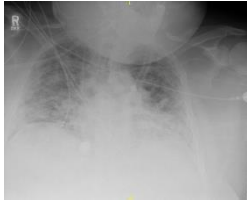
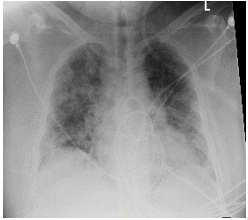
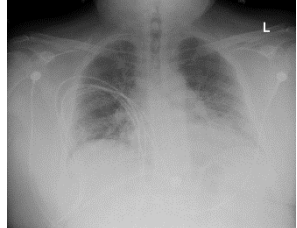
Patient 10	Before Aviptadil	24-hr post 1st Dose	1 week post 2nd Dose	2 wk post 2nd Dose
Portable Chest X-Ray				
PaO ₂ :FiO ₂	N/A	N/A	N/A	N/A
PaO ₂	66	68	70	70
SaO ₂	93	95	96	96
Ventilation	ECMO FiO ₂ 60% Vent DuoPAP 26/14 RR 26 FiO ₂ 40	ECMO FiO ₂ 100% Vent DuoPAP PEEP high 26PEEP/CPAP14 Pressure Support 12 RR 26 FiO ₂ 40%	ECMO FiO ₂ 80% Vent AC Pressure RR 16 Pinsp 12 PEEP 10 FiO ₂ 40%	ECMO FiO ₂ 100% Vent DuoPAP PEEP high 26PEEP/CPAP14 Pressure Support 12 RR 26 FiO ₂ 90%

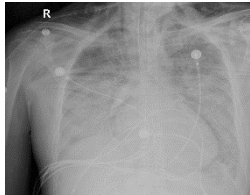

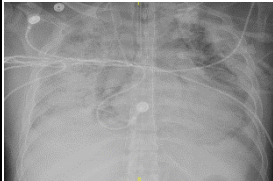
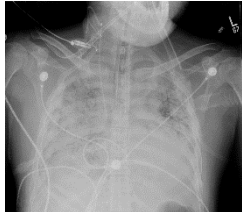
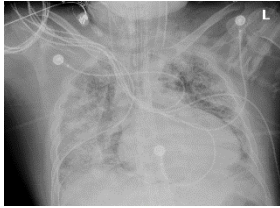
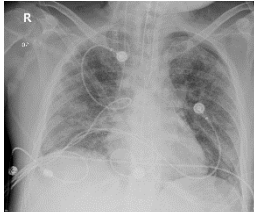
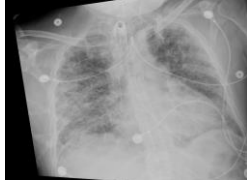

Patient 11	Before Aviptadil	24-hr post 3rd Dose	48 hrs post 3rd Dose	2Wks post 3rd Dose
Portable Chest X-Ray				
PaO ₂ :FiO ₂	N/A	N/A	N/A	N/A
PaO ₂	66	102	101	111
SaO ₂	91	98	94	94
Ventilation	ECMO FiO ₂ 70% Vent AC Pressure Pinsp 15 RR 10 PEEP 10 FiO ₂ 40	ECMO FiO ₂ 80% Vent AC Pressure Pinsp 15 RR 10 PEEP 8 FiO ₂ 40	ECMO FiO ₂ 50% Vent AC Pressure RR 16 Pinsp 14 PEEP 10 FiO ₂ 40%	ECMO FiO ₂ 60% Vent DuoPAP PEEP high 25PEEP/CPAP13 Pressure Support 10 RR 15 FiO ₂ 90%

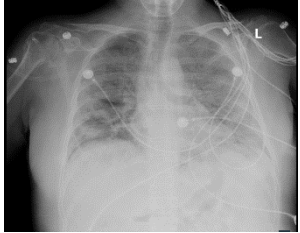
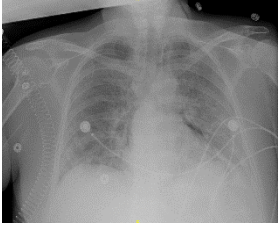
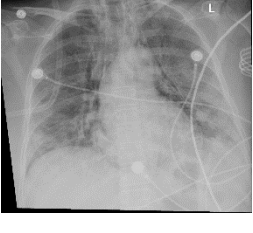



Patient 11	3 weeks after therapy	4 weeks after therapy		
Continued				
PaO ₂ :FiO ₂	N/A	N/A	210	273
PaO ₂	67	82	84	109
SaO ₂	94	96	96	98
Ventilation	ECMO FiO ₂ 50% AC Pressure RR 26 Pinsp 16 PEEP 10 FiO ₂ 40%	ECMO FiO ₂ 70% AC Pressure RR 16 Pinsp 15 PEEP 10 FiO ₂ 35%		AC Pressure RR : 30 Pinsp: 25 cm H ₂ O PEEP: 11 Plateau Pressure: 36 cm H ₂ O

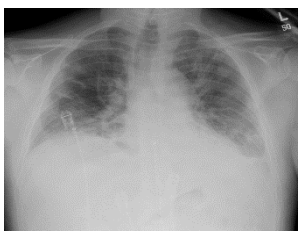
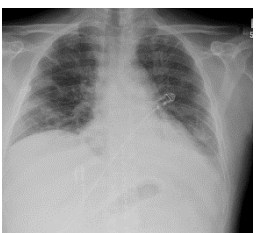
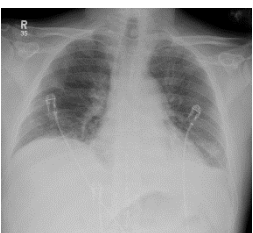

Patient 12	Before Aviptadil	24-hr post 3 rd Dose	5 days post 3 rd Dose	5 days post 3 rd Dose
Portable Chest X-Ray				
PaO ₂ :FiO ₂	92	88	200	200
SaO ₂	100	99	99	99
Supplemental Oxygen	HFNC 60LPM 100%FiO ₂	HFNC 15LPM 100%FiO ₂	8L NC	8L NC
	2 weeks after therapy 			
PaO ₂ :FiO ₂	460			
SaO ₂	99			
Supplemental Oxygen	3 L/min			

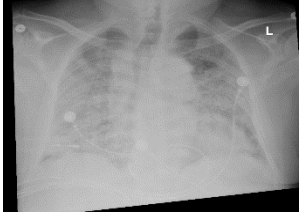
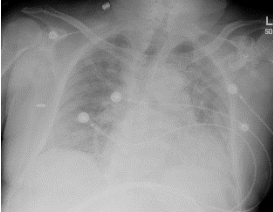
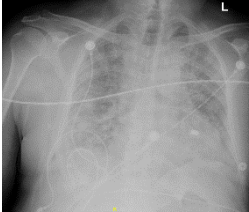
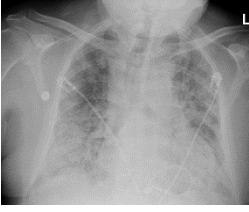

<i>Patient 13</i>	Before Aviptadil	After 2 nd Dose	24hrs post 3 rd Dose	48hrs post 3 rd Dose,
Portable Chest X-Ray				
PaO₂:FiO₂	NA	NA	NA	NA
PaO₂	89	88	66	73
SaO₂	97	97	92	93
Ventilation	ECMO: FiO ₂ 80% AC Pressure Control 16, PEEP 12, FIO ₂ 40%	ECMO FiO ₂ 60% AC PC 16, PEEP 10, FIO ₂ 40%	ECMO FiO ₂ 60% ASV RR 23, PEEP 9, PERCENT MINUTE VOLUME 100. TARGET MINUTE VOLUME 6 L/min. FiO ₂ 40%	ECMO FiO ₂ 21% ASV RR 23, PEEP 9, PERCENT MINUTE VOLUME 100. TARGET MINUTE VOLUME 6 L/min. FiO ₂ 40%
	7 days post 3rd Dose	2Wks post 3rd Dose	3Wks post therapy	Most recent
<i>Patient 13</i> Portable Chest X-Ray				
PaO₂:FiO₂	260	367	275	
SaO₂	98	99%	92	98
Ventilation	HFNC 45% FiO ₂ 60 L/min	Nasal Canula 3L/min	Nasal Canula 1L/min	Room Air

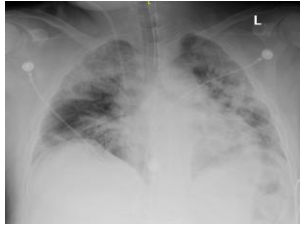

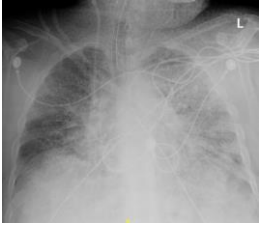









Patient 14	Before Aviptadil	24hr post 3rd Dose	72hr post 3rd Dose	7 days post 3rd Dose
Portable Chest X-Ray				
PaO₂:FiO₂	NA	NA	NA	NA
PaO₂	71	73	105	159
SaO₂	94%	94%	97%	99%
Ventilation	ECMO, FiO ₂ 100% AC PC 20, inspiratory pressure 18 PEEP 15, FIO ₂ 40 %	ECMO, FiO ₂ 100% AC PC 20, inspiratory pressure 17 PEEP 12, FIO ₂ 40 %	ECMO, FiO ₂ 70% AC PC 20, inspiratory pressure 17 PEEP 10, FIO ₂ 40 %	AC PC12, inspiratory pressure 17 PEEP 8, FIO ₂ 50 %
	2Wks post 3rd Dose			
Patient 14 Portable Chest X-Ray				
PaO₂:FiO₂	282			
SaO₂	94%			
Ventilation	NC 2 L/min			

<i>Patient 15</i>	Before Aviptadil	S/P ECMOinsertion and Before Aviptadil	48hrs post 3rd Dose
Portable Chest X-Ray			
PaO₂:FiO₂	58		NA
PaO₂		65	60
SaO₂	96	94	91
Ventilation	AC PC 16, PEEP 14, FiO ₂ 100%	ECMO 100% AC PC16, PEEP 14, FiO ₂ 40%	ECMO 100% AC PC16, PEEP 5, FiO ₂ 50%
	72hr post 3rd Dose	1WK post 3rd Dose	2Wks post 3rd Dose
<i>Patient 15</i> Portable Chest X-Ray			
PaO₂:FiO₂	NA		320
PaO₂	97	70	128
SaO₂	99	94	99
Ventilation	ECMO 100% AC PC18, PEEP 5, FiO ₂ 70%	ECMO 60% AC PC16, PEEP 6, FiO ₂ 40%	AC PC 14, PEEP 8, FiO ₂ 40%
	3Wks After therapy	4 weeks after therapy	
			
PaO₂:FiO₂	340	270	
SaO₂	100		
Ventilation	AC pressure RR 18 inspiratory pressure 15 PEEP 10FiO ₂ 80%		

Patient 16	Before Aviptadil	After 2nd Dose	24 Hrs After 3rd Dose	48 Hrs after third dose
Portable Chest X-Ray				
PaO₂:FiO₂	49	240	258	114
SaO₂	85	99	99	97
FiO₂/Ventilation	HFNC 60L/min, FiO ₂ 100%	FiO ₂ 60%, NIPPV IPAP 12 and EPAP 6	HFNC 25L/min, FiO ₂ 60% NIPPV IPAP 12 and EPAP 6	HFNC 25L/min, FiO ₂ 80% Off NIPPV
	1 wk After therapy	2 weeks after therapy		
				
PaO₂:FiO₂	194	208		
SaO₂	99	100		
FiO₂	HFNC 30L/min, FiO ₂ 80%	HFNC 40L/min, FiO ₂ 80%		

Patient 17	Before Aviptadil	After 2nd Dose	24 Hrs After 3rd Dose	72 hours after third dose
Portable Chest X-Ray				
PaO₂:FiO₂	118	230	280	
SaO₂	99	98	98	94
Ventilation	HFNC 30L/min, FiO ₂ 55%	HFNC 25L/min, FiO ₂ 40%	HFNC 20L/min, FiO ₂ 35%	Room Air
				Discharged to rehab

<i>Patient 18</i>	Before Aviptadil	24 hours after third dose	72hr post 3rd Dose	7 days post 3rd Dose
Portable Chest X-Ray				
PaO₂:FiO₂	75	103	95.3	153
SaO₂	93%	97	96	98
Ventilation	HFNC 30 L/min, FiO ₂ 95%	HFNC 40 L/min, FiO ₂ 90%	HFNC 20 L/min, FiO ₂ 85%	HFNC 40 L/min, FiO ₂ 60%
	14 days post 3rd Dose 			
PaO₂:FiO₂				
SaO₂	93			
Ventilation	HFNC 30 L/min, FiO ₂ 40%			

Patient 19	Before Aviptadil	24 hours after third dose	72hr post 3rd Dose	7 days post 3rd Dose
Portable Chest X-Ray				
PaO₂:FiO₂	83	129	197	145
SaO₂	95%	98	99	99
Ventilation	FiO ₂ 90% AC pressure RR HFNC	FiO ₂ 85% AC pressure RR 24 inspiratory pressure 14 PEEP 15	FiO ₂ 75% AC pressure RR 26 inspiratory pressure 15 PEEP 15	FiO ₂ 100% AC pressure RR 26 inspiratory pressure 16 PEEP 13
Patient 20	Before Aviptadil	24 hours after third dose	72hr post 3rd Dose	7 days post 3rd Dose
Portable Chest X-Ray				
PaO₂:FiO₂	73	87	197	198
SaO₂	92%	96		99
Ventilation	FiO ₂ 90% NIPPV RR 12 PSV 12 PEEP 9	FiO ₂ 100% AC pressure RR 16 inspiratory pressure 14 PEEP 10	FiO ₂ 60% AC pressure RR 16 inspiratory pressure 12 PEEP 12	FiO ₂ 100% AC pressure RR 26 inspiratory pressure 18 PEEP 5
Patient 21	Before Aviptadil	24 hours after third dose	72hr post 3rd Dose	12 days post 3rd Dose
Portable Chest X-Ray				
PaO₂:FiO₂	124	273	312	222
SaO₂	96%	98	99	98
Ventilation	FiO ₂ 70% AC pressure RR 20 inspiratory pressure 17 PEEP 11	FiO ₂ 40% AC pressure RR 20 inspiratory pressure 17 PEEP 12	FiO ₂ 40% AC pressure RR 20 inspiratory pressure 15 PEEP 12	FiO ₂ 40% AC pressure RR 24 inspiratory pressure 22 PEEP 7