Supplemental Table 1 – Potentials for and opportunities to mitigate bias in the ECMO circuit of equity

Component	Potential for Bias	Opportunities to Prevent or Mitigate Bias
Individual- and Community-level Risks for Contracting Sars-CoV-2 and Developing COVID-19	-Overcrowding -Disabilities and comorbidities -Health literacy -Vaccine hesitancy -Access to vaccines -Other social determinants of health	-Systematic and targeted development of anti-racism policies -Health promotion initiatives -Optimizing health systems to reduce barriers to care (e.g., language, service locations)
Primary and Secondary Sites of Diagnosis & Treatment	-Access to specialized facilities -Differential service delivery -Assessment of language barriers & family support	-Continuing medical education on COVID-19 and ARDS -Regional health equity initiatives -ECMO program outreach
Referral to an ECMO Center	-Provider familiarity with referral indications -Language choice (phone & EHR) -Information included -Screening on payor status	-Use of transfer/regional coordination center -Referral call templates -Sociodemographic blinding -Access to real-time regional capacity dashboard
Acceptance to an ECMO Center	-Non-standardized acceptance criteria -Availability of transport -Insurance status	-Demographic blinding -Consensus huddle (e.g., conference call) -Standardized acceptance criteria -Standardized retrieval and transport criteria -Antibias training for ECMO center staff
Decision to Cannulate for ECMO	-Differential interventions -Health literacy and advocacy -Regional resource scarcity	-Standardized cannulation criteria -Ethics consultation for competing resources -Use of structured communication tools and cultural mediators

Care During and After ECMO Support	-Differential service delivery -Transplant screening (resources and insurance support) -Inequitable rehabilitation referral	-ICU, ARDS and ECMO rounding checklists -Development of culturally appropriate support services -Early engagement of palliative care -Transplant evaluation criteria -Automatic rehabilitation consultation
Abbreviations: Acute Respiratory Distress Syndrome (ARDS), Extracorporeal Membrane Oxygenation (ECMO), Electronic Health Record (EHR), Intensive Care Unit (ICU)		