

Basic information of the top 100 cited articles

No.	Authors	Article title	Source title	IF ₂₀₂₂	IF _{5-year}	Category rank	Category quartile	Author keywords	Keywords plus	Times cited, all databases	180-day usage count	Since 2013 usage count	Publication year
1	Dalton, HJ; Reeder, R; Garcia-Filion, P; Holubkov, R; Berg, RA; Zuppa, A; Moler, FW; Shanley, T; Pollack, MM; Newth, C; Berger, J; Wessel, D; Carcillo, J; Bell, M; Heidemann, S; Meert, KL; Harrison, R; Doctor, A; Tamburro, RF; Dean, JM; Jenkins, T; Nicholson, C	Factors Associated with Bleeding and Thrombosis in Children Receiving Extracorporeal Membrane Oxygenation	AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE	24.7	21.9	3	Q1	extracorporeal life support; cardiorespiratory failure; hemolysis; transfusion; outcome	PEDIATRIC INTENSIVE-CARE; SUPPORT ORGANIZATION REGISTRY; VASOACTIVE-INOTROPIC SCORE; FUNCTIONAL STATUS SCALE; CRITICALLY-ILL PATIENTS; BLOOD-CELL TRANSFUSION; LIFE-SUPPORT; CENTRIFUGAL PUMPS; CARDIAC PATIENTS; PRISM III	231	1	8	2017
2	Barbaro, RP; Odetola, FO; Kidwell, KM; Paden, ML; Bartlett, RH; Davis, MM; Annich, GM	Association of Hospital-Level Volume of Extracorporeal Membrane Oxygenation Cases and Mortality Analysis of the Extracorporeal Life Support Organization Registry	AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE	24.7	21.9	3	Q1	extracorporeal membrane oxygenation; high-volume hospitals; low-volume hospitals; pediatric; adult	ACUTE RESPIRATORY-FAILURE; CARDIOPULMONARY-RESUSCITATION; ACUTE PHYSIOLOGY; ADULT PATIENTS; OUTCOMES; SURVIVAL; UPDATE; IMPACT; RISK; ARDS	484	5	32	2015
3	Schmidt, M; Bailey, M; Sheldrake, J; Hodgson, C; Aubron, C; Rycus, PT; Scheinkestel, C; Cooper, DJ; Brodie, D; Pellegrino, V; Combes, A; Pilcher, D	Predicting Survival after Extracorporeal Membrane Oxygenation for Severe Acute Respiratory Failure: The Respiratory Extracorporeal Membrane Oxygenation Survival Prediction (RESP) Score	AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE	24.7	21.9	3	Q1	predictive score model; extracorporeal membrane oxygenation; acute respiratory distress syndrome; outcome; adult	2009 INFLUENZA A(H1N1); DISTRESS-SYNDROME; LIFE-SUPPORT; MORTALITY RISK; ECMONET SCORE; NEW-ZEALAND; VALIDATION; COHORT; ADULTS; PNEUMONIA	537	0	48	2014
4	Pham, T; Combes, A; Rozé, H; Chevret, S; Mercat, M; Roch, A; Mourvillier, B; Ara-Somohano, C; Bastien, O; Zogheib, E; Clavel, M; Constan, A; Richard, JCM; Brun-Buisson, C; Brochard, L	Extracorporeal Membrane Oxygenation for Pandemic Influenza A(H1N1)-induced Acute Respiratory Distress Syndrome A Cohort Study and Propensity-matched Analysis	AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE	24.7	21.9	3	Q1	plateau pressure; hypoxemia; research network; acute lung injury	INTENSIVE-CARE-UNIT; CLINICAL-TRIAL; FAILURE; SCORE; OPTIMIZATION; MORTALITY; SUPPORT; PACKAGE; PATIENT; SAPS-3	385	2	55	2013
5	Fuehner, T; Kuehn, C; Hadem, J; Wiesner, O; Gottlieb, J; Tudorache, I;	Extracorporeal Membrane Oxygenation in Awake	AMERICAN JOURNAL OF	24.7	21.9	3	Q1	lung transplantation; extracorporeal membrane	INTERNATIONAL-SOCIETY; ASSIST DEVICE;	449	0	31	2012

	Olsson, KM; Greer, M; Sommer, W; Welte, T; Haverich, A; Hoeper, MM; Warnecke, G	Patients as Bridge to Lung Transplantation	RESPIRATORY AND CRITICAL CARE MEDICINE					oxygenation; awake; bridging	HYPERTENSION; HEART; CANDIDATES; SELECTION; FAILURE; SUPPORT				
6	Fondevila, C; Hessheimer, AJ; Ruiz, A; Calatayud, D; Ferrer, J; Charco, R; Fuster, J; Navasa, M; Rimola, A; Taurá, P; Ginés, P; Manyalich, M; García-Valdecasas, JC	Liver transplant using donors after unexpected cardiac death:: Novel preservation protocol and acceptance criteria	AMERICAN JOURNAL OF TRANSPLANTATION	8.7	7.4	2	Q1	donors after cardiac death; extracorporeal membrane oxygenation; liver transplantation; nonheart-beating donors; organ preservation	HEART-BEATING DONORS; CONTROLLED NONHEARTBEATING DONORS; SINGLE-CENTER EXPERIENCE; NORMOTHERMIC RECIRCULATION; VIABILITY; PERFUSION; PIGS	247	1	9	2007
7	Latz, CA; DeCarlo, C; Boitano, L; Png, CYM; Patell, R; Conrad, MF; Eagleton, M; Dua, A	Blood type and outcomes in patients with COVID-19	ANNALS OF HEMATOLOGY	3.5	3.2	33	Q2	COVID-19; Blood type; SARS-CoV2; Coronavirus	SUSCEPTIBILITY	213	2	31	2020
8	Hemmila, MR; Rowe, SA; Boules, TN; Miskulin, J; McGillicuddy, JW; Schuerer, DJ; Haft, JW; Swaniker, F; Arbabi, S; Hirschl, RB; Bartlett, RH	Extracorporeal life support for severe acute respiratory distress syndrome in adults	ANNALS OF SURGERY	10.1	10.8	4	Q1		ACUTE LUNG INJURY; MEMBRANE-OXYGENATION; MECHANICAL VENTILATION; PEDIATRIC-PATIENTS; RANDOMIZED-TRIAL; CARDIAC-FAILURE; AIRWAY PRESSURE; MORTALITY; SURVIVAL; THERAPY	324	0	8	2004
9	BARTLETT, RH; GAZZANIGA, AB; TOOMASIAN, J; CORWIN, AG; ROLOFF, D; RUCKER, R	EXTRACORPOREAL MEMBRANE-OXYGENATION (ECMO) IN NEONATAL RESPIRATORY-FAILURE - 100 CASES	ANNALS OF SURGERY	10.1	10.8	4	Q1			318	0	16	1986
10	Bisdas, T; Beutel, G; Warnecke, G; Hoeper, MM; Kuehn, C; Haverich, A; Teebken, OE	Vascular Complications in Patients Undergoing Femoral Cannulation for Extracorporeal Membrane Oxygenation Support	ANNALS OF THORACIC SURGERY	4.6	4.5	24	Q1		PERFUSION	244	0	13	2011
11	Masseti, M; Tasle, M; Le Page, O; Deredec, R; Babatasi, G; Buklas, D; Thuaudet, S; Charbonneau, P; Hamon, M; Grollier, G; Gerard, JL; Khayat, A	Back from irreversibility: Extracorporeal life support for prolonged cardiac arrest	ANNALS OF THORACIC SURGERY	4.6	4.5	24	Q1		PERCUTANEOUS CARDIOPULMONARY BYPASS; MEMBRANE-OXYGENATION; CIRCULATORY SUPPORT; HEART-DISEASE;	222	0	7	2005

									RESUSCITATION; HYPOTHERMIA; EXPERIENCE; CANNULATION; CHILDREN; THERAPY				
12	Doll, N; Kiaii, B; Borger, M; Bucorius, J; Krämer, K; Schmitt, DV; Walther, T; Mohr, FW	Five-year results of 219 consecutive patients treated with extracorporeal membrane oxygenation for refractory postoperative cardiogenic shock	ANNALS OF THORACIC SURGERY	4.6	4.5	24	Q1		POSTCARDIOTOMY VENTRICULAR-FAILURE; RESPIRATORY-FAILURE; SUPPORT; HEART; RECOVERY; SYSTEMS; ARDS	253	0	11	2004
13	Sauer, CM; Yuh, DD; Bonde, P	Extracorporeal Membrane Oxygenation Use Has Increased by 433% in Adults in the United States from 2006 to 2011	ASAIO JOURNAL	4.2	3.6	8	Q2	extracorporeal membrane oxygenation; mechanical circulatory support	RESPIRATORY-FAILURE; LIFE-SUPPORT; CARDIOPULMONARY-RESUSCITATION; CARDIAC-ARREST; INFLUENZA; SHOCK	242	0	11	2015
14	Paden, ML; Conrad, SA; Rycus, PT; Thiagarajan, RR	Extracorporeal Life Support Organization Registry Report 2012	ASAIO JOURNAL	4.2	3.6	8	Q2	extracorporeal membrane oxygenation; cardiopulmonary failure; mechanical support	MEMBRANE-OXYGENATION; RESPIRATORY-FAILURE; INFLUENZA	503	0	34	2013
15	Schrage, B; Becher, PM; Bernhardt, A; Bezerra, H; Blankenberg, S; Brunner, S; Colson, P; Deseda, GC; Dabboura, S; Eckner, D; Eden, M; Eitel, I; Frank, D; Frey, N; Funamoto, M; Gossling, A; Graf, T; Hagl, C; Kirchhof, P; Kupka, D; Landmesser, U; Lipinski, J; Lopes, M; Majunke, N; Maniuc, O; McGrath, D; Möbius-Winkler, S; Morrow, DA; Mourad, M; Noel, C; Nordbeck, P; Orban, M; Pappalardo, F; Patel, SM; Pauschinger, M; Pazzanese, V; Reichenspurner, H; Sandri, M; Schulze, PC; Schwinger, RHG; Sinning, JM; Aksoy, A; Skurk, C; Szczanowicz, L; Thiele, H; Tietz, F; Varshney, A; Wechsler, L; Westermann, D	Left Ventricular Unloading Is Associated With Lower Mortality in Patients With Cardiogenic Shock Treated With Venoarterial Extracorporeal Membrane Oxygenation Results From an International, Multicenter Cohort Study	CIRCULATION	37.8	33.2	1	Q1	extracorporeal membrane oxygenation; shock; cardiogenic	MYOCARDIAL-INFARCTION; LIFE-SUPPORT; SURVIVAL	237	0	8	2020
16	Belhadjer, Z; Meot, M; Bajolle, F; Khraiche, D; Legendre, A; Abakka, S; Auriou, J; Grimaud, M; Oualha, M;	Acute Heart Failure in Multisystem Inflammatory Syndrome in Children in the	CIRCULATION	37.8	33.2	1	Q1	cardiomyopathies; child; COVID-19; heart failure; mucocutaneous lymph node	KAWASAKI-DISEASE; COVID-19; SHOCK	811	7	57	2020

	Beghetti, M; Wacker, J; Ovaert, C; Hascoet, S; Selegny, M; Malekzadeh-Milani, S; Maltret, A; Bosser, G; Giroux, N; Bonnemains, L; Bordet, J; Di Filippo, S; Mauran, P; Falcon-Eicher, S; Thambo, JB; Lefort, B; Mocerri, P; Houyel, L; Renolleau, S; Bonnet, D	Context of Global SARS-CoV-2 Pandemic						syndrome; myocardial stunning; severe acute respiratory syndrome coronavirus 2					
17	Almond, CS; Morales, DL; Blackstone, EH; Turrentine, MW; Imamura, M; Massicotte, MP; Jordan, LC; Devaney, EJ; Ravishankar, C; Kanter, KR; Holman, W; Kroschwitz, R; Tjossem, C; Thuita, L; Cohen, GA; Buchholz, H; St Louis, JD; Nguyen, K; Niebler, RA; Walters, HL; Reemtsen, B; Wearden, PD; Reinhartz, O; Guleserian, KJ; Mitchell, MB; Bleiweis, MS; Canter, CE; Humpl, T	Berlin Heart EXCOR Pediatric Ventricular Assist Device for Bridge to Heart Transplantation in US Children	CIRCULATION	37.8	33.2	1	Q1	cardiac surgical procedures; heart-assist devices; heart failure; pediatrics; transplantation; waiting lists	EXTRACORPOREAL MEMBRANE-OXYGENATION; MECHANICAL CIRCULATORY SUPPORT; NORTH-AMERICAN EXPERIENCE; UNITED-STATES ANALYSIS; NATIONAL HEART; PREDICTORS; MORTALITY; SURVIVAL; INTERVAL; OUTCOMES	340	0	23	2013
18	Birks, EJ; George, RS; Hedger, M; Bahrami, T; Wilton, P; Bowles, CT; Webb, C; Bougard, R; Amrani, M; Yacoub, MH; Dreyfus, G; Khaghani, A	Reversal of Severe Heart Failure With a Continuous-Flow Left Ventricular Assist Device and Pharmacological Therapy A Prospective Study	CIRCULATION	37.8	33.2	1	Q1	cardiac transplantation; cardiomyopathy; heart failure; heart-assist device	MYOCARDIAL RECOVERY; CARDIAC-HYPERTROPHY; CLENBUTEROL; SUPPORT	292	0	13	2011
19	Almond, CSD; Thiagarajan, RR; Piercey, GE; Gauvreau, K; Blume, ED; Bastardi, HJ; Fynn-Thompson, F; Singh, TP	Waiting List Mortality Among Children Listed for Heart Transplantation in the United States	CIRCULATION	37.8	33.2	1	Q1	pediatrics; transplantation, heart; heart failure; survival; heart-assist devices	MECHANICAL CIRCULATORY SUPPORT; LIVER ALLOCATION POLICY; CARDIAC TRANSPLANTATION; LUNG-TRANSPLANTATION; SURVIVAL; OUTCOMES; INFANTS; DISEASE; TIME; DATABASE	291	0	8	2009
20	Thiagarajan, RR; Laussen, PC; Rycus, PT; Bartlett, RH; Bratton, SL	Extracorporeal membrane oxygenation to aid cardiopulmonary resuscitation in infants and children	CIRCULATION	37.8	33.2	1	Q1	cardiopulmonary resuscitation; extracorporeal circulation; heart arrest; pediatrics	CARDIAC-ARREST; LIFE-SUPPORT; PEDIATRIC-PATIENTS; SURVIVAL; OUTCOMES; RESCUE	254	0	17	2007
21	Schmidt, M; Bréchet, N; Hariri, S; Guiguet, M; Luyt, CE; Makri, R;	Nosocomial Infections in Adult Cardiogenic Shock	CLINICAL INFECTIOUS	11.8	10.1	10	Q1		VENTILATOR-ASSOCIATED PNEUMONIA;	223	1	12	2012

	Leprince, P; Trouillet, JL; Pavie, A; Chastre, J; Combes, A	Patients Supported by Venoarterial Extracorporeal Membrane Oxygenation	DISEASES							RANDOMIZED CONTROLLED-TRIAL; INTENSIVE-CARE UNITS; QUALITY-OF-LIFE; ANTIBIOTIC-THERAPY; CDC DEFINITIONS; ORGAN FAILURE; ICU PATIENTS; EXPERIENCE; OUTCOMES				
22	Aubron, C; Cheng, AC; Pilcher, D; Leong, T; Magrin, G; Cooper, DJ; Scheinkestel, C; Pellegrino, V	Factors associated with outcomes of patients on extracorporeal membrane oxygenation support: a 5-year cohort study	CRITICAL CARE	15.1	12	4	Q1			LIFE-SUPPORT; NOSOCOMIAL INFECTIONS; PEDIATRIC-PATIENTS; CARDIOPULMONARY-RESUSCITATION; CRITICALLY-ILL; RISK-FACTORS; ADULT; ECMO; FAILURE; COMPLICATIONS	266	1	43	2013
23	Shin, TG; Choi, JH; Jo, IJ; Sim, MS; Song, HG; Jeong, YK; Song, YB; Hahn, JY; Choi, SH; Gwon, HC; Jeon, ES; Sung, K; Kim, WS; Lee, YT	Extracorporeal cardiopulmonary resuscitation in patients with inhospital cardiac arrest: A comparison with conventional cardiopulmonary resuscitation	CRITICAL CARE MEDICINE	8.8	8.4	6	Q1	cardiopulmonary resuscitation; extracorporeal membrane oxygenation; cardiopulmonary bypass; extracorporeal circulation; cardiopulmonary arrest; advanced cardiac life support		MEMBRANE-OXYGENATION; LIFE-SUPPORT; IMPROVED SURVIVAL; SOFA SCORE; BYPASS; ADULTS; TERM	294	0	13	2011
24	Sheu, JJ; Tsai, TH; Lee, FY; Fang, HY; Sun, CK; Leu, S; Yang, CH; Chen, SM; Hang, CL; Hsieh, YK; Chen, CJ; Wu, CJ; Yip, HK	Early extracorporeal membrane oxygenator-assisted primary percutaneous coronary intervention improved 30-day clinical outcomes in patients with ST-segment elevation myocardial infarction complicated with profound cardiogenic shock	CRITICAL CARE MEDICINE	8.8	8.4	6	Q1	acute myocardial infarction; profound cardiogenic shock; extracorporeal membrane oxygenator		CARDIOPULMONARY-RESUSCITATION; EARLY REVASCULARIZATION; PRIMARY ANGIOPLASTY; LIFE-SUPPORT; SHORT-TERM; MORTALITY; REPERFUSION; PREDICTORS; TRIAL; COUNTERPULSATION	281	0	10	2010
25	Combes, A; Leprince, P; Luyt, CE; Bonnet, N; Trouillet, JL; Léger, P; Pavie, A; Chastre, J	Outcomes and long-term quality-of-life of patients supported by extyacorpoyeal membrane oxygenation for refractory caydiogenic shock	CRITICAL CARE MEDICINE	8.8	8.4	6	Q1	extracorporeal membrane oxygenation; salvage therapy; shock; cardiogenic; cardiac arrest; treatment outcome; quality-of-life assessment		RESPIRATORY-DISTRESS-SYNDROME; TOTAL ARTIFICIAL-HEART; CARDIOPULMONARY BYPASS; CARDIAC-ARREST; FULMINANT MYOCARDITIS; CLINICAL-EXPERIENCE; CARDIOGENIC-SHOCK;	499	1	25	2008

									HEALTH SURVEY; EXTRACORPOREAL; FAILURE				
26	Schmidt, M; Burrell, A; Roberts, L; Bailey, M; Sheldrake, J; Rycus, PT; Hodgson, C; Scheinkestel, C; Cooper, DJ; Thiagarajan, RR; Brodie, D; Pellegrino, V; Pilcher, D	Predicting survival after ECMO for refractory cardiogenic shock: the survival after veno-arterial-ECMO (SAVE)-score	EUROPEAN HEART JOURNAL	39.3	31.4	2	Q1	Cardiogenic shock; Extracorporeal membrane; Outcome	EXTRACORPOREAL MEMBRANE- OXYGENATION; ACUTE MYOCARDIAL- INFARCTION; ACUTE RESPIRATORY-FAILURE; LIFE-SUPPORT; EARLY REVASCULARIZATION; MORTALITY RISK; CARDIAC-ARREST; OUTCOMES; MODELS; IMPACT	579	4	30	2015
27	Gaynor, JW; Mahle, WT; Cohen, MI; Ittenbach, RF; DeCampi, WM; Steven, JM; Nicolson, SC; Spray, TL	Risk factors for mortality after the Norwood procedure	EUROPEAN JOURNAL OF CARDIO-THORACIC SURGERY	3.4	4.1	39	Q1	hypoplastic left heart syndrome; Norwood procedure	LEFT-HEART SYNDROME; AORTIC ATRESIA; SURVIVAL; RECONSTRUCTION; DIAGNOSIS; SURGERY	227	1	7	2002
28	Tavazzi, G; Pellegrini, C; Maurelli, M; Belliato, M; Sciutti, F; Bottazzi, A; Sepe, PA; Resasco, T; Camporotondo, R; Bruno, R; Baldanti, F; Paolucci, S; Pelenghi, S; Iotti, GA; Mojoli, F; Arbustini, E	Myocardial localization of coronavirus in COVID-19 cardiogenic shock	EUROPEAN JOURNAL OF HEART FAILURE	18.2	16.2	7	Q1	SARS-CoV-2; Coronavirus; Myocardial inflammation; Cardiac injury; Cardiogenic shock; Extracorporeal membrane oxygenation		683	0	22	2020
29	Pappalardo, F; Schulte, C; Pieri, M; Schrage, B; Contri, R; Soeffker, G; Greco, T; Lembo, R; Müllerleile, K; Colombo, A; Sydow, K; De Bonis, M; Wagner, F; Reichensperner, H; Blankenberg, S; Zangrillo, A; Westermann, D	Concomitant implantation of Impella® on top of veno-arterial extracorporeal membrane oxygenation may improve survival of patients with cardiogenic shock	EUROPEAN JOURNAL OF HEART FAILURE	18.2	16.2	7	Q1	Shock; Heart failure; Extracorporeal circulation; Heart-assist device; Percutaneous left ventricular assist device	MECHANICAL CIRCULATORY SUPPORT; LEFT-HEART DECOMPRESSION; VENTRICULAR ASSIST DEVICE; LIFE-SUPPORT; HEMOLYSIS; BRIDGE	349	4	29	2017
30	Helms, J; Tacquard, C; Severac, F; Leonard-Lorant, I; Ohana, M; Delabranche, X; Merdji, H; Clere-Jehl, R; Schenck, M; Gandet, FF; Fafi-Kremer, S; Castelain, V; Schneider, F; Grunebaum, L; Anglés-Cano, E; Sattler, L; Mertes, PM; Meziari, F	High risk of thrombosis in patients with severe SARS-CoV-2 infection: a multicenter prospective cohort study	INTENSIVE CARE MEDICINE	38.9	27	2	Q1	COVID-19; ARDS; Thrombosis; Lupus anticoagulant; Coagulopathy	DISSEMINATED INTRAVASCULAR COAGULATION; RESPIRATORY-DISTRESS- SYNDROME; SEPTIC SHOCK; ANTIPHOSPHOLIPID SYNDROME; PATHOGENESIS; CRITERIA;	1841	8	97	2020

									HEMOSTASIS; MANAGEMENT; PATHWAYS; INJURY				
31	Muller, G; Flecher, E; Lebreton, G; Luyt, CE; Trouillet, JL; Bréchet, N; Schmidt, M; Mastroianni, C; Chastre, J; Leprince, P; Anselmi, A; Combes, A	The ENCOURAGE mortality risk score and analysis of long-term outcomes after VA-ECMO for acute myocardial infarction with cardiogenic shock	INTENSIVE CARE MEDICINE	38.9	27	2	Q1	Extracorporeal membrane oxygenation; Acute myocardial infarction; Cardiogenic shock; Outcome assessment; Long-term quality of life	EXTRACORPOREAL MEMBRANE-OXYGENATION; QUALITY-OF-LIFE; PERCUTANEOUS CORONARY INTERVENTION; HOSPITAL MORTALITY; SURVIVAL; SUPPORT; REVASCULARIZATION; PREDICTORS; DEPRESSION; MANAGEMENT	323	3	48	2016
32	Schmidt, M; Zogheib, E; Rozé, H; Repesse, X; Lebreton, G; Luyt, CE; Trouillet, JL; Bréchet, N; Nieszkowska, A; Dupont, H; Ouattara, A; Leprince, P; Chastre, J; Combes, A	The PRESERVE mortality risk score and analysis of long-term outcomes after extracorporeal membrane oxygenation for severe acute respiratory distress syndrome	INTENSIVE CARE MEDICINE	38.9	27	2	Q1	Extracorporeal membrane oxygenation; acute respiratory distress syndrome; outcome assessment; long-term quality of life	QUALITY-OF-LIFE; POSTTRAUMATIC-STRESS-DISORDER; INTENSIVE-CARE; FOLLOW-UP; SURVIVORS; SUPPORT; DYSFUNCTION; SYMPTOMS; FAILURE; MORBIDITY	414	1	69	2013
33	Schmidt, M; Tachon, G; Devilliers, C; Muller, G; Hekimian, G; Bréchet, N; Merceron, S; Luyt, CE; Trouillet, JL; Chastre, J; Leprince, P; Combes, A	Blood oxygenation and decarboxylation determinants during venovenous ECMO for respiratory failure in adults	INTENSIVE CARE MEDICINE	38.9	27	2	Q1	Extracorporeal membrane oxygenation; Salvage therapy; Shock; Cardiogenic; Outcome predictors; Doppler echocardiography	EXTRACORPOREAL MEMBRANE-OXYGENATION; ACUTE LUNG INJURY; END-EXPIRATORY PRESSURE; DISTRESS-SYNDROME; VENTILATION; PREDICTORS; MORTALITY; OUTCOMES	216	3	39	2013
34	Aissaoui, N; Luyt, CE; Leprince, P; Trouillet, JL; Léger, P; Pavie, A; Diebold, B; Chastre, J; Combes, A	Predictors of successful extracorporeal membrane oxygenation (ECMO) weaning after assistance for refractory cardiogenic shock	INTENSIVE CARE MEDICINE	38.9	27	2	Q1	Extracorporeal membrane oxygenation; Salvage therapy; Cardiogenic shock; Outcome predictors; Doppler echocardiography	LIFE-SUPPORT; CARDIOPULMONARY-RESUSCITATION; HEART-TRANSPLANT; CARDIAC-ARREST; EXPERIENCE; SURVIVAL; FAILURE; DEVICE; ADULTS; SCORE	250	0	6	2011
35	Patroniti, N; Zangrillo, A; Pappalardo, F; Peris, A; Cianchi, G; Braschi, A; Iotti, GA; Arcadipane, A; Panarello, G;	The Italian ECMO network experience during the 2009 influenza A(H1N1)	INTENSIVE CARE MEDICINE	38.9	27	2	Q1	Viral infection; Extracorporeal membrane oxygenation; Preparedness plan; ARDS	EXTRACORPOREAL MEMBRANE-OXYGENATION;	272	1	22	2011

	Ranieri, VM; Terragni, P; Antonelli, M; Gattinoni, L; Oleari, F; Pesenti, A	pandemic: preparation for severe respiratory emergency outbreaks							CRITICALLY-ILL PATIENTS; INTENSIVE-CARE-UNIT; MECHANICAL VENTILATION; SUFFICIENT EVIDENCE; DISTRESS-SYNDROME; H1N1 INFLUENZA; INFECTION; EPIDEMIC; EFFICACY				
36	Brogan, TV; Thiagarajan, RR; Rycus, PT; Bartlett, RH; Bratton, SL	Extracorporeal membrane oxygenation in adults with severe respiratory failure: a multi-center database	INTENSIVE CARE MEDICINE	38.9	27	2	Q1	Extracorporeal Life Support Organization (ELSO); acute respiratory distress syndrome (ARDS); pneumonia; survival; complications	LIFE-SUPPORT; DISTRESS-SYNDROME; CO2 REMOVAL; VENTILATION; PRESSURE; EXPERIENCE; SURVIVAL; TRIAL	336	1	33	2009
37	Shekerdemian, LS; Mahmood, NR; Wolfe, KK; Riggs, BJ; Ross, CE; McKiernan, CA; Heidemann, SM; Kleinman, LC; Sen, AI; Hall, MW; Priestley, MA; McGuire, JK; Boukas, K; Sharron, MP; Burns, JP	Characteristics and Outcomes of Children With Coronavirus Disease 2019 (COVID-19) Infection Admitted to US and Canadian Pediatric Intensive Care Units	JAMA PEDIATRICS	26.1	21.5	2	Q1			636	0	15	2020
38	Sadeghipour, P; Talasaz, AH; Rashidi, F; Sharif-Kashani, B; Beigmohammadi, MT; Farrokhpour, M; Sezavar, SH; Payandemehr, P; Dabbagh, A; Moghadam, KG; Jamalkhani, S; Khalili, H; Yadollahzadeh, M; Riahi, T; Rezaeifar, P; Tahamtan, O; Matin, S; Abedini, A; Lookzadeh, S; Rahmani, H; Zoghi, E; Mohammadi, K; Sadeghipour, P; Abri, H; Tabrizi, S; Mousavian, SM; Shahmirzaei, S; Bakhshandeh, H; Amin, A; Rafiee, F; Baghizadeh, E; Mohebbi, B; Parhizgar, SE; Aliannejad, R; Eslami, V; Kashefzadeh, A; Kakavand, H; Hosseini, SH; Shafaghi, S; Ghazi, SF; Najafi, A; Jimenez, D; Gupta, A; Madhavan, MV; Sethi, SS; Parikh, SA; Monreal, M; Hadavand, N; Hajighasemi, A; Maleki, M; Sadeghian, S; Piazza, G; Kirtane, AJ; Van Tassell, BW; Dobesh, PP; Stone, GW; Lip, GYH; Krumholz, HM;	Effect of Intermediate-Dose vs Standard-Dose Prophylactic Anticoagulation on Thrombotic Events, Extracorporeal Membrane Oxygenation Treatment, or Mortality Among Patients With COVID-19 Admitted to the Intensive Care Unit The INSPIRATION Randomized Clinical Trial	JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION	120.7	81.4	3	Q1			446	5	50	2021

	Goldhaber, SZ; Bikdeli, B												
39	Self, WH; Semler, MW; Leither, LM; Casey, JD; Angus, DC; Brower, RG; Chang, SY; Collins, SP; Eppensteiner, JC; Filbin, MR; Files, DC; Gibbs, KW; Ginde, AA; Gong, MN; Harrell, FE; Hayden, DL; Hough, CL; Johnson, NJ; Khan, A; Lindsell, CJ; Matthay, MA; Moss, M; Park, PK; Rice, TW; Robinson, BRH; Schoenfeld, DA; Shapiro, NI; Steingrub, JS; Ulysse, CA; Weissman, A; Yealy, DM; Thompson, BT; Brown, SM	Effect of Hydroxychloroquine on Clinical Status at 14 Days in Hospitalized Patients With COVID-19 A Randomized Clinical Trial	JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION	120.7	81.4	3	Q1		CHLOROQUINE	281	1	9	2020
40	Dequin, PF; Heming, N; Meziani, F; Plantefève, G; Voiriot, G; Badié, J; François, B; Aubron, C; Ricard, JD; Ehrmann, S; Jouan, Y; Guillon, A; Leclerc, M; Coffre, C; Bourgoin, H; Lengellé, C; Caille-Fénérol, C; Tavernier, E; Zohar, S; Giraudeau, B; Annane, D; Le Gouge, A	Effect of Hydrocortisone on 21-Day Mortality or Respiratory Support Among Critically Ill Patients With COVID-19 A Randomized Clinical Trial	JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION	120.7	81.4	3	Q1		COMMUNITY-ACQUIRED PNEUMONIA; CORTICOSTEROID TREATMENT; THERAPY; FAILURE; SCORE	307	1	21	2020
41	Shen, CG; Wang, ZQ; Zhao, F; Yang, Y; Li, JX; Yuan, J; Wang, FX; Li, DL; Yang, MH; Xing, L; Wei, JL; Xiao, HX; Yang, Y; Qu, JX; Qing, L; Chen, L; Xu, ZX; Peng, L; Li, YJ; Zheng, HX; Chen, F; Huang, K; Jiang, YJ; Liu, DJ; Zhang, Z; Liu, YX; Liu, L	Treatment of 5 Critically Ill Patients With COVID-19 With Convalescent Plasma	JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION	120.7	81.4	3	Q1		EBOLA-VIRUS DISEASE	1679	11	223	2020
42	Wang, DW; Hu, B; Hu, C; Zhu, FF; Liu, X; Zhang, J; Wang, BB; Xiang, H; Cheng, ZS; Xiong, Y; Zhao, Y; Li, YR; Wang, XH; Peng, ZY	Clinical Characteristics of 138 Hospitalized Patients With 2019 Novel Coronavirus-Infected Pneumonia in Wuhan, China	JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION	120.7	81.4	3	Q1			5118	33	235	2020
43	Dhruva, SS; Ross, JS; Mortazavi, BJ; Hurley, NC; Krumholz, HM; Curtis, JP; Berkowitz, A; Masoudi, FA; Messenger, JC; Parzynski, CS; Ngufor, C; Girotra, S; Amin, AP; Shah, ND; Desai, NR	Association of Use of an Intravascular Microaxial Left Ventricular Assist Device vs Intra-aortic Balloon Pump With In-Hospital Mortality and Major Bleeding Among Patients With Acute Myocardial Infarction Complicated by Cardiogenic	JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION	120.7	81.4	3	Q1		MECHANICAL CIRCULATORY SUPPORT; BLOOD-TRANSFUSION; TRENDS; MANAGEMENT; PROGNOSIS; OUTCOMES; REGISTRY; PROGRAM	240	3	35	2020

		Shock											
44	Noah, MA; Peek, GJ; Finney, SJ; Griffiths, MJ; Harrison, DA; Grieve, R; Sadique, MZ; Sekhon, JS; McAuley, DF; Firmin, RK; Harvey, C; Cordingley, JJ; Price, S; Vuylsteke, A; Jenkins, DP; Noble, DW; Bloomfield, R; Walsh, TS; Perkins, GD; Menon, D; Taylor, BL; Rowan, KM	Referral to an Extracorporeal Membrane Oxygenation Center and Mortality Among Patients With Severe 2009 Influenza A(H1N1)	JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION	120.7	81.4	3	Q1		ACUTE LUNG INJURY; RESPIRATORY-DISTRESS-SYNDROME; CRITICALLY-ILL PATIENTS; CRITICAL-CARE SERVICES; H1N1 INFLUENZA; ORGAN FAILURE; VOLUME; OPTIMIZATION; MULTIVARIATE; VENTILATION	637	2	95	2011
45	Davies, A; Jones, D; Bailey, M; Beca, J; Bellomo, R; Blackwell, N; Forrest, P; Gattas, D; Granger, E; Herkes, R; Jackson, A; McGuinness, S; Nair, P; Pellegrino, V; Pettilä, V; Plunkett, B; Pye, R; Torzillo, P; Webb, S; Wilson, M; Ziegenfuss, M	Extracorporeal Membrane Oxygenation for 2009 Influenza A(H1N1) Acute Respiratory Distress Syndrome	JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION	120.7	81.4	3	Q1		LIFE-SUPPORT; A H1N1; PREGNANCY; FAILURE	1239	1	158	2009
46	Kumar, A; Zarychanski, R; Pinto, R; Cook, DJ; Marshall, J; Lacroix, J; Stelfox, T; Bagshaw, S; Choong, K; Lamontagne, F; Turgeon, AF; Lapinsky, S; Ahern, SP; Smith, O; Siddiqui, F; Jouvett, P; Khwaja, K; McIntyre, L; Menon, K; Hutchison, J; Hornstein, D; Joffe, A; Lauzier, F; Singh, J; Karachi, T; Wiebe, K; Olafson, K; Ramsey, C; Sharma, S; Dodek, P; Meade, M; Hall, R; Fowler, RA	Critically Ill Patients With 2009 Influenza A(H1N1) Infection in Canada	JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION	120.7	81.4	3	Q1		MORTALITY; EPIDEMIOLOGY	1115	0	68	2009
47	Bartlett, RH; Roloff, DW; Custer, JR; Younger, JG; Hirschl, RB	Extracorporeal life support - The University of Michigan experience	JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION	120.7	81.4	3	Q1		ACUTE RESPIRATORY-FAILURE; MEMBRANE-OXYGENATION; ADULT PATIENTS; CO2 REMOVAL; VENTILATION; NEWBORN	254	0	4	2000
48	Hirschl, RB; Pranikoff, T; Wise, C; Overbeck, MC; Gauger, P; Schreiner, RJ; Dechert, R; Bartlett, RH	Initial experience with partial liquid ventilation in adult patients with the acute respiratory distress syndrome	JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION	120.7	81.4	3	Q1		END-EXPIRATORY PRESSURE; GAS-EXCHANGE; LUNG; SUPPORT; FAILURE	218	0	4	1996
49	GATTINONI, L; BOMBINO, M; PELOSI, P; LISSONI, A; PESENTI, A; FUMAGALLI, R; TAGLIABUE, M	LUNG STRUCTURE AND FUNCTION IN DIFFERENT STAGES OF SEVERE	JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION	120.7	81.4	3	Q1		EXTRACORPOREAL MEMBRANE-OXYGENATION; END-	308	0	9	1994

		ADULT-RESPIRATORY-DISTRESS-SYNDROME	ASSOCIATION						EXPIRATORY PRESSURE; PULMONARY BAROTRAUMA; MECHANICAL VENTILATION; GAS-EXCHANGE; FAILURE; SYSTEM; EMPHYSEMA; CURVE				
50	HARRISON, MR; ADZICK, NS; ESTES, JM; HOWELL, LJ	A PROSPECTIVE-STUDY OF THE OUTCOME FOR FETUSES WITH DIAPHRAGMATIC-HERNIA	JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION	120.7	81.4	3	Q1		EXTRACORPOREAL MEMBRANE-OXYGENATION; INITIAL CLINICAL-EXPERIENCE; PRENATAL-DIAGNOSIS	282	0	17	1994
51	ZAPOL, WM; SNIDER, MT; HILL, JD; FALLAT, RJ; BARTLETT, RH; EDMUNDS, LH; MORRIS, AH; PEIRCE, EC; THOMAS, AN; PROCTOR, HJ; DRINKER, PA; PRATT, PC; BAGNIEWSKI, A; MILLER, RG	EXTRACORPOREAL MEMBRANE-OXYGENATION IN SEVERE ACUTE RESPIRATORY-FAILURE - RANDOMIZED PROSPECTIVE-STUDY	JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION	120.7	81.4	3	Q1			1148	2	42	1979
52	Meyts, I; Buccioli, G; Quinti, I; Neven, B; Fischer, A; Seoane, E; Lopez-Grandos, E; Gianelli, C; Robles-Marhuenda, A; Jeandel, PY; Paillard, C; Sankaran, VG; Demirdag, YY; Lougaris, V; Aiuti, A; Plebani, A; Milito, C; Dalm, VASH; Guevara-Hoyer, K; Sánchez-Ramón, S; Bezrodnik, L; Barzaghi, F; Gonzalez-Granado, LI; Hayman, GR; Uzel, G; Mendonça, LO; Agostini, C; Spadaro, G; Badolato, R; Soresina, A; Vermeulen, F; Bosteels, C; Lambrecht, BN; Keller, M; Mustillo, PJ; Abraham, RS; Gupta, S; Ozen, A; Karakoc-Aydiner, E; Baris, S; Freeman, AF; Yamazaki-Nakashimada, M; Scheffler-Mendoza, S; Espinosa-Padilla, S; Gennery, AR; Jolles, S; Espinosa, Y; Poli, MC; Fieschi, C; Hauck, F; Cunningham-Rundles, C; Mahlaoui, N; Warnatz, K; Sullivan, KE; Tangye, SG	Coronavirus disease 2019 in patients with inborn errors of immunity: An international study	JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY	14.2	11.4	1	Q1	SARS-CoV-2; COVID-19; primary immunodeficiencies; inborn errors of immunity; hypogammaglobulinemia; immune dysregulation		258	3	36	2021

53	Boloker, J; Bateman, DA; Wung, JT; Stolar, CJH	Congenital diaphragmatic hernia in 120 infants treated consecutively with permissive hypercapnea/spontaneous respiration/elective repair	JOURNAL OF PEDIATRIC SURGERY	2.4	2.6	58	Q2	congenital diaphragmatic hernia; permissive hypercapnea; delayed surgery; extracorporeal membrane oxygenation	EXTRACORPOREAL MEMBRANE-OXYGENATION; PREOPERATIVE STABILIZATION; DELAYED SURGERY; RESPIRATORY-FAILURE; FETAL CIRCULATION; SURGICAL REPAIR; LIFE-SUPPORT; 2 CITIES; EXPERIENCE; MANAGEMENT	298	0	11	2002
54	Bouchard, S; Johnson, MP; Flake, AW; Howell, LJ; Myers, LB; Adzick, NS; Crombleholme, TM	The EXIT procedure: Experience and outcome in 31 cases	JOURNAL OF PEDIATRIC SURGERY	2.4	2.6	58	Q2	ex utero intrapartum treatment; extracorporeal membrane oxygenation; congenital diaphragmatic hernia; congenital cystic adenomatoid malformation; teratoma; congenital high airway obstruction syndrome; pulmonary agenesis; intrinsic high airway obstruction; conjoined twins; neck masses	INTRAPARTUM TREATMENT PROCEDURE; AIRWAY-OBSTRUCTION; PLACENTAL SUPPORT; TWIN GESTATION; NECK MASS; MANAGEMENT; CIRCULATION; FETUS; HEAD	231	0	11	2002
55	Crombleholme, TM; Coleman, B; Hedrick, H; Liechty, K; Howell, L; Flake, AW; Johnson, M; Adzick, NS	Cystic adenomatoid malformation in prenatally diagnosed cystic volume ratio predicts outcome adenomatoid malformation of the lung	JOURNAL OF PEDIATRIC SURGERY	2.4	2.6	58	Q2	cystic adenomatoid malformation of the lung; cystic adenomatoid malformation of lung volume ratio; fetal surgery; prenatal diagnosis; hydrops; ultrasound	FETAL THERAPY; LESIONS	327	0	9	2002
56	Clark, RH; Hardin, WD; Hirschl, RB; Jaksic, T; Lally, KP; Langham, MR; Wilson, JM	Current surgical management of congenital diaphragmatic hernia: A report from the congenital diaphragmatic hernia study group	JOURNAL OF PEDIATRIC SURGERY	2.4	2.6	58	Q2	congenital diaphragmatic hernia; extracorporeal membrane oxygenation; polytetrafluoroethylene; surgical repair	DELAYED REPAIR; SURVIVAL; RECONSTRUCTION; STABILIZATION; SURGERY; ECMO	229	0	12	1998
57	Harrison, MR; Mychaliska, GB; Albanese, CT; Jennings, RW; Farrell, JA; Hawgood, S; Sandberg, P; Levine, AH; Lobo, E; Filly, RA	Correction of congenital diaphragmatic hernia in utero IX: Fetuses with poor prognosis (liver herniation and low lung-to-head ratio) can be saved by fetoscopic temporary tracheal occlusion	JOURNAL OF PEDIATRIC SURGERY	2.4	2.6	58	Q2	congenital diaphragmatic hernia; tracheal occlusion; open fetal surgery; Fetendo; fetoscopic surgery	SONOGRAPHIC PREDICTORS; IN-UTERO	244	0	4	1998
58	Lipshutz, GS; Albanese, CT; Feldstein, VA; Jennings, RW; Housley, HT;	Prospective analysis of lung-to-head ratio predicts survival	JOURNAL OF PEDIATRIC SURGERY	2.4	2.6	58	Q2	congenital diaphragmatic hernia; lung-to-head ratio	SONOGRAPHIC PREDICTORS	262	0	4	1997

	Beech, R; Farrell, JA; Harrison, MR	for patients with prenatally diagnosed congenital diaphragmatic hernia	SURGERY											
59	Kaushik, S; Aydin, S; Derespina, KR; Bansal, PB; Kowalsky, S; Trachtman, R; Gillen, JK; Perez, MM; Soshnick, SH; Conway, EE; Bercow, A; Seiden, HS; Pass, RH; Ushay, HM; Ofori-Amanfo, G; Medar, SS	Multisystem Inflammatory Syndrome in Children Associated with Severe Acute Respiratory Syndrome Coronavirus 2 Infection (MIS-C): A Multi-institutional Study from New York City	JOURNAL OF PEDIATRICS	5.1	5.2	12	Q1			287	3	10	2020	
60	Kinsella, JP; Truog, WE; Walsh, WF; Goldberg, RN; Bancalari, E; Mayock, DE; Redding, GJ; deLemos, RA; Sardesai, S; McCurnin, DC; Moreland, SG; Cutter, GR; Abman, SH	Randomized, multicenter trial of inhaled nitric oxide and high-frequency oscillatory ventilation in severe, persistent pulmonary hypertension of the newborn	JOURNAL OF PEDIATRICS	5.1	5.2	12	Q1		EXTRACORPOREAL MEMBRANE-OXYGENATION; RESPIRATORY-FAILURE; DISEASE; PHYSIOLOGY; CANDIDATES; INFANTS	331	1	7	1997	
61	KINSELLA, JP; NEISH, SR; IVY, DD; SHAFFER, E; ABMAN, SH	CLINICAL-RESPONSES TO PROLONGED TREATMENT OF PERSISTENT PULMONARY-HYPERTENSION OF THE NEWBORN WITH LOW-DOSES OF INHALED NITRIC-OXIDE	JOURNAL OF PEDIATRICS	5.1	5.2	12	Q1		EXTRACORPOREAL MEMBRANE-OXYGENATION; FREQUENCY OSCILLATORY VENTILATION; CONGENITAL DIAPHRAGMATIC-HERNIA; NEONATAL RESPIRATORY-FAILURE; RELAXING FACTOR; VASOCONSTRICTION; VASODILATOR; CIRCULATION; TOLAZOLINE; DISEASE	261	0	9	1993	
62	Yannopoulos, D; Bartos, JA; Raveendran, G; Conterato, M; Frascione, RJ; Trembley, A; John, R; Connett, J; Benditt, DG; Lurie, KG; Wilson, RF; Aufderheide, TP	Coronary Artery Disease in Patients With Out-of-Hospital Refractory Ventricular Fibrillation Cardiac Arrest	JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY	24.4	25.3	4	Q1	cardiopulmonary resuscitation; emergent cardiac care; sudden cardiac death	IMPEDANCE THRESHOLD DEVICE; CARDIOPULMONARY-RESUSCITATION; INDUCED HYPOTHERMIA; LIFE-SUPPORT; INTERVENTION; OUTCOMES; CLOPIDOGREL; TICAGRELOR; SURVIVAL; INSIGHTS	225	0	8	2017	

63	Chen, YS; Chao, A; Yu, HY; Ko, WJ; Wu, IH; Chen, RJC; Huang, SC; Lin, FY; Wang, SS	Analysis and results of prolonged resuscitation in cardiac arrest patients rescued by extracorporeal membrane oxygenation	JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY	24.4	25.3	4	Q1		EMERGENCY CARDIOPULMONARY BYPASS; IN-HOSPITAL RESUSCITATION; LIMB ISCHEMIA; UTSTEIN STYLE; SUPPORT; SURVIVAL	287	2	14	2003
64	Tabbutt, S; Ghanayem, N; Ravishankar, C; Sleeper, LA; Cooper, DS; Frank, DU; Lu, MM; Pizarro, C; Frommelt, P; Goldberg, CS; Graham, EM; Krawczeski, CD; Lai, WW; Lewis, A; Kirsh, JA; Mahony, L; Ohye, RG; Sinsic, J; Lodge, AJ; Spurrier, E; Stylianou, M; Laussen, P	Risk factors for hospital morbidity and mortality after the Norwood procedure: A report from the Pediatric Heart Network Single Ventricle Reconstruction trial	JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY	6	5.9	13	Q1		PULMONARY-ARTERY CONDUIT; STAGE-I RECONSTRUCTION; BLALOCK-TAUSSIG; OUTCOMES; OPERATION; PALLIATION; EXPERIENCE; STENOSIS; INFANTS; SHUNT	243	1	10	2012
65	Mayer, E; Jenkins, D; Lindner, J; D'Armini, A; Kloek, J; Meyns, B; Ilkjaer, LB; Klepetko, W; Delcroix, M; Lang, I; Pepke-Zaba, J; Simonneau, G; Darteville, P	Surgical management and outcome of patients with chronic thromboembolic pulmonary hypertension: Results from an international prospective registry	JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY	6	5.9	13	Q1		CIRCULATORY ARREST; ENDARTERECTOMY; EXPERIENCE; PREDICTORS	524	1	15	2011
66	Rastan, AJ; Dege, A; Mohr, M; Doll, N; Falk, V; Walther, T; Mohr, FW	Early and late outcomes of 517 consecutive adult patients treated with extracorporeal membrane oxygenation for refractory postcardiotomy cardiogenic shock	JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY	6	5.9	13	Q1		LIFE-SUPPORT; CARDIAC-FAILURE; EXPERIENCES; POPULATION; SURVIVAL; RISK	443	0	7	2010
67	Smedira, NG; Moazami, N; Golding, CM; McCarthy, PM; Apperson-Hansen, C; Blackstone, EH; Cosgrove, DM	Clinical-experience with 202 adults receiving extracorporeal membrane oxygenation for cardiac failure: Survival at five years	JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY	6	5.9	13	Q1		LIFE-SUPPORT; BYPASS; TRIAL	252	1	5	2001
68	Yannopoulos, D; Bartos, J; Raveendran, G; Walser, E; Connett, J; Murray, TA; Collins, G; Zhang, L; Kalra, R; Kosmopoulos, M; John, R; Shaffer, A; Frascione, RJ; Wesley, K; Conterato, M; Biros, M; Tolar, J; Aufderheide, TP	Advanced reperfusion strategies for patients with out-of-hospital cardiac arrest and refractory ventricular fibrillation (ARREST): a phase 2, single centre, open-label, randomised controlled trial	LANCET	168.9	118.1	1	Q1		CARDIOPULMONARY-RESUSCITATION; SURVIVAL	444	3	22	2020
69	Barbaro, RP; MacLaren, G; Boonstra, PS; Iwashyna, TJ; Slutsky, AS; Fan, E;	Extracorporeal membrane oxygenation support in	LANCET	168.9	118.1	1	Q1		RESPIRATORY-DISTRESS-SYNDROME; MORTALITY;	567	3	42	2020

	Bartlett, RH; Tonna, JE; Hyslop, R; Fanning, JJ; Rycus, PT; Hyer, SJ; Anders, MM; Agerstrand, CL; Hryniewicz, K; Diaz, R; Lorusso, R; Combes, A; Brodie, D	COVID-19: an international cohort study of the Extracorporeal Life Support Organization registry							ECMO; ARDS				
70	Guery, B; Poissy, J; el Mansouf, L; Séjourné, C; Ettahar, N; Lemaire, X; Vuotto, F; Goffard, A; Behillil, S; Enouf, V; Caro, V; Mailles, A; Che, D; Manuguerra, JC; Mathieu, D; Fontanet, A; van der Werf, S	Clinical features and viral diagnosis of two cases of infection with Middle East Respiratory Syndrome coronavirus: a report of nosocomial transmission	LANCET	168.9	118.1	1	Q1		SARS; PNEUMONIA	328	0	88	2013
71	Hu, YW; Lu, SH; Song, ZG; Wang, W; Hao, P; Li, JH; Zhang, XN; Yen, HL; Shi, BS; Li, T; Guan, WC; Xu, L; Liu, Y; Wang, S; Zhang, XL; Tian, D; Zhu, ZQ; He, J; Huang, K; Chen, HJ; Zheng, LL; Li, X; Ping, J; Kang, B; Xi, XH; Zha, LJ; Li, YX; Zhang, ZY; Peiris, M; Yuan, ZH	Association between adverse clinical outcome in human disease caused by novel influenza A H7N9 virus and sustained viral shedding and emergence of antiviral resistance	LANCET	168.9	118.1	1	Q1		MUTATIONS	307	1	99	2013
72	Peek, GJ; Mugford, M; Tiruvoipati, R; Wilson, A; Allen, E; Thalanany, MM; Hibbert, CL; Truesdale, A; Clemens, F; Cooper, N; Firmin, RK; Elbourne, D	Efficacy and economic assessment of conventional ventilatory support versus extracorporeal membrane oxygenation for severe adult respiratory failure (CESAR): a multicentre randomised controlled trial	LANCET	168.9	118.1	1	Q1		QUALITY-OF-LIFE; COST-EFFECTIVENESS ANALYSIS; INTENSIVE-CARE UNITS; DISTRESS-SYNDROME; CLINICAL-TRIALS; SURVIVAL; OUTCOMES; EPIDEMIOLOGY	2416	0	162	2009
73	Chen, YS; Lin, JW; Yu, HY; Ko, WJ; Jerng, JS; Chang, WT; Chen, WJ; Huang, SC; Chi, NH; Wang, CH; Chen, LC; Tsai, PR; Wang, SS; Hwang, JJ; Lin, FY	Cardiopulmonary resuscitation with assisted extracorporeal life-support versus conventional cardiopulmonary resuscitation in adults with in-hospital cardiac arrest: an observational study and propensity analysis	LANCET	168.9	118.1	1	Q1		MEMBRANE-OXYGENATION; MYOCARDIAL-INFARCTION; CIRCULATORY SUPPORT; CARDIOGENIC-SHOCK; IMPROVED SURVIVAL; EXPERIENCE; OUTCOMES; CPR; PREDICTION; REGISTRY	856	2	41	2008
74	Field, D; Davis, C; Elbourne, D; Grant, A; Johnson, A; Macrae, D	UK collaborative randomised trial of neonatal extracorporeal membrane oxygenation	LANCET	168.9	118.1	1	Q1		PERSISTENT PULMONARY-HYPERTENSION	556	0	19	1996
75	KINSELLA, JP; NEISH, SR;	LOW-DOSE	LANCET	168.9	118.1	1	Q1			634	0	10	1992

	SHAFFER, E; ABMAN, SH	INHALATIONAL NITRIC-OXIDE IN PERSISTENT PULMONARY-HYPERTENSION OF THE NEWBORN											
76	Davies, P; Evans, C; Kanthimathinathan, HK; Lillie, J; Brierley, J; Waters, G; Johnson, M; Griffiths, B; du Pré, P; Mohammad, Z; Deep, A; Playfor, S; Singh, D; Inwald, D; Jardine, M; Ross, O; Shetty, N; Worrall, M; Sinha, R; Koul, A; Whittaker, E; Vyas, H; Scholefield, BR; Ramnarayan, P	Intensive care admissions of children with paediatric inflammatory multisystem syndrome temporally associated with SARS-CoV-2 (PIMS-TS) in the UK: a multicentre observational study	LANCET CHILD & ADOLESCENT HEALTH	36.4	24	1	Q1		DISEASE	306	0	11	2020
77	Götzinger, F; Santiago-García, B; Noguera-Julián, A; Lanaspá, M; Lancella, L; Carducci, FIC; Gabrovská, N; Velizarova, S; Prunk, P; Osterman, V; Krivec, U; Lo Vecchio, A; Shingadia, D; Soriano-Arandes, A; Melendo, S; Lanari, M; Pierantoni, L; Wagner, N; L'Huillier, AG; Heiningen, U; Ritz, N; Bandi, S; Krajcar, N; Roglic, S; Santos, M; Christiaens, C; Creuven, M; Buonsenso, D; Welch, SB; Bogyi, M; Brinkmann, F; Tebruegge, M	COVID-19 in children and adolescents in Europe: a multinational, multicentre cohort study	LANCET CHILD & ADOLESCENT HEALTH	36.4	24	1	Q1		SHORTAGE	845	4	63	2020
78	Schmidt, M; Hajage, D; Lebreton, G; Monsel, A; Voiriot, G; Levy, D; Baron, E; Beurton, A; Chommeloux, J; Meng, P; Nemlaghi, S; Bay, P; Leprince, P; Demoule, A; Guidet, B; Constantin, JM; Fartoukh, M; Dres, M; Combes, A	Extracorporeal membrane oxygenation for severe acute respiratory distress syndrome associated with COVID-19: a retrospective cohort study	LANCET RESPIRATORY MEDICINE	76.2	52.5	1	Q1		CRITICALLY-ILL ADULTS; LIFE-SUPPORT; FAILURE; SURVIVAL; GUIDELINES; SCORE; ARDS	307	5	28	2020
79	Grein, J; Ohmagari, N; Shin, D; Diaz, G; Asperges, E; Castagna, A; Feldt, T; Green, G; Green, ML; Lescure, FX; Nicastri, E; Oda, R; Yo, K; Quiros-Roldan, E; Studemeister, A; Redinski, J; Ahmed, S; Bernett, J; Chelliah, D; Chen, D; Chihara, S; Cohen, SH; Cunningham, J; Monforte, AD; Ismail, S; Kato, H; Lapadula, G; L'Her, E;	Compassionate Use of Remdesivir for Patients with Severe Covid-19	NEW ENGLAND JOURNAL OF MEDICINE	158.5	115.7	2	Q1			1816	3	170	2020

	Maeno, T; Majumder, S; Massari, M; Mora-Rillo, M; Mutoh, Y; Nguyen, D; Verweij, E; Zoufaly, A; Osinusi, AO; DeZure, A; Zhao, Y; Zhong, L; Chokkalingam, A; Elboudwarej, E; Telep, L; Timbs, L; Henne, I; Sellers, S; Cao, H; Tan, SK; Winterbourne, L; Desai, P; Mera, R; Gaggar, A; Myers, RP; Brainard, DM; Childs, R; Flanigan, T												
80	Combes, A; Hajage, D; Capellier, G; Demoule, A; Lavoué, S; Guervilly, C; Da Silva, D; Zafrani, L; Tirot, P; Veber, B; Maury, E; Levy, B; Cohen, Y; Richard, C; Kalfon, P; Bouadma, L; Mehdaoui, H; Beduneau, G; Lebreton, G; Brochard, L; Ferguson, ND; Fan, E; Slutsky, AS; Brodie, D; Mercat, A	Extracorporeal Membrane Oxygenation for Severe Acute Respiratory Distress Syndrome	NEW ENGLAND JOURNAL OF MEDICINE	158.5	115.7	2	Q1		2009 INFLUENZA A(H1N1); CLINICAL-TRIAL; LUNG INJURY; MORTALITY; EPIDEMIOLOGY; OUTCOMES; FAILURE; ARDS	1332	7	220	2018
81	Gyamfi-Bannerman, C; Thom, EA; Blackwell, SC; Tita, ATN; Reddy, UM; Saade, GR; Rouse, DJ; McKenna, DS; Clark, EAS; Thorp, JM; Chien, EK; Peaceman, AM; Gibbs, RS; Swamy, GK; Norton, ME; Casey, BM; Caritis, SN; Tolosa, JE; Sorokin, Y; VanDorsten, JP; Jain, L	Antenatal Betamethasone for Women at Risk for Late Preterm Delivery	NEW ENGLAND JOURNAL OF MEDICINE	158.5	115.7	2	Q1		FETAL LUNG MATURATION; RESPIRATORY-DISTRESS; INFANTS; CORTICOSTEROIDS; MORBIDITY; BIRTH	455	2	27	2016
82	Fraser, CD; Jaquiss, RDB; Rosenthal, DN; Humpl, T; Canter, CE; Blackstone, EH; Naftel, DC; Ichord, RN; Bomgaars, L; Tweddell, JS; Massicotte, MP; Turrentine, MW; Cohen, GA; Devaney, EJ; Pearce, FB; Carberry, KE; Kroschwitz, R; Almond, CS	Prospective Trial of a Pediatric Ventricular Assist Device	NEW ENGLAND JOURNAL OF MEDICINE	158.5	115.7	2	Q1		HEART-TRANSPLANTATION; CHILDREN; OUTCOMES; DISEASE; STROKE	362	0	17	2012
83	Brodie, D; Bacchetta, M	Extracorporeal Membrane Oxygenation for ARDS in Adults	NEW ENGLAND JOURNAL OF MEDICINE	158.5	115.7	2	Q1		RESPIRATORY-DISTRESS-SYNDROME; ACUTE LUNG INJURY; RANDOMIZED CONTROLLED-TRIAL; TIDAL VOLUME VENTILATION; END-EXPIRATORY PRESSURE; MECHANICAL	617	1	93	2011

									VENTILATION; CLINICAL-TRIAL; HIGH SURVIVAL; LIFE-SUPPORT; CO2 REMOVAL				
84	Clark, RH; Kueser, TJ; Walker, MW; Southgate, WM; Huckaby, JL; Perez, JA; Roy, BJ; Keszler, M; Kinsella, JP	Low-dose nitric oxide therapy for persistent pulmonary hypertension of the newborn.	NEW ENGLAND JOURNAL OF MEDICINE	158.5	115.7	2	Q1		EXTRACORPOREAL MEMBRANE-OXYGENATION; BLEEDING-TIME; PATHOPHYSIOLOGY; CIRCULATION; DISEASE; INJURY	534	1	15	2000
85	Roberts, JD; Fineman, JR; Morin, FC; Shaul, PW; Rimar, S; Schreiber, MD; Polin, RA; Zwass, MS; Zayek, MM; Gross, I; Heymann, MA; Zapol, WM	Inhaled nitric oxide and persistent pulmonary hypertension of the newborn	NEW ENGLAND JOURNAL OF MEDICINE	158.5	115.7	2	Q1		RESPIRATORY-DISTRESS-SYNDROME; OXYGENATION; VASOCONSTRICTION; LAMB	601	3	16	1997
86	Stork, E; Gorjanc, E; Verter, J; Younes, N; Stenzel, BA; Powers, T; Sokol, G; Wright, LL; Yaffe, SJ; Catz, C; VanMeurs, K; Rhine, W; Ball, B; Brilli, R; Moles, L; Crowley, M; Backstrom, C; Crouse, D; Hudson, T; Konduri, G; Bara, R; Kleinman, M; Hensman, A; Rothstein, RW; Ehrenkranz, RA; Solimano, A; Germain, F; Walker, R; Ramirez, AM; Singhal, N; Bourcier, L; Fajardo, C; Cook, V; Kirpalani, H; Monkman, S; Johnston, A; Mullahoo, K; Finer, NN; Peliowski, A; Etches, P; Kamstra, B; Sankarhan, K; Riehl, A; Blanchard, P; Gouin, R; Wearden, M; Gomez, M; Moon, Y; Bauer, CR; Donovan, EF; Fanaroff, AA; Korones, SB; Lemons, JA; Oh, W; Papile, LA; Shankaran, S; Stoll, BJ; Tyson, JE; Avery, G; DALton, M; Bracken, MB; Gleason, CA; Maguire, M; Redmond, C; Silverman, W; Sinclair, J	Inhaled nitric oxide in full-term and nearly full-term infants with hypoxic respiratory failure	NEW ENGLAND JOURNAL OF MEDICINE	158.5	115.7	2	Q1		PERSISTENT PULMONARY-HYPERTENSION; EXTRACORPOREAL MEMBRANE-OXYGENATION; RELAXING FACTOR; BLEEDING-TIME; NEWBORN; VASOCONSTRICTION; HYPERVENTILATION; VASODILATOR; PEROXYNITRITE; MANAGEMENT	641	0	12	1997
87	Ramcharan, T; Nolan, O; Lai, CY; Prabhu, N; Krishnamurthy, R; Richter, AG; Jyothish, D; Kanthimathinathan, HK; Welch, SB; Hackett, S; Al-Abadi,	Paediatric Inflammatory Multisystem Syndrome: Temporally Associated with SARS-CoV-2 (PIMS-TS):	PEDIATRIC CARDIOLOGY	1.6	1.9	94	Q3	Hyper-inflammatory; Kawasaki; PIMS-TS; MIS-C; COVID-19; SARS-CoV-2	DIAGNOSIS; COVID-19; CHILDREN	239	0	14	2020

	E; Scholefield , BR; Chikermane, A	Cardiac Features, Management and Short-Term Outcomes at a UK Tertiary Paediatric Hospital											
88	Bembea, MM; Annich, G; Rycus, P; Oldenburg, G; Berkowitz, I; Pronovost, P	Variability in Anticoagulation Management of Patients on Extracorporeal Membrane Oxygenation: An International Survey	PEDIATRIC CRITICAL CARE MEDICINE	4.1	4.2	16	Q1	anticoagulation; anti-factor Xa; antithrombin; extracorporeal membrane oxygenation; thromboelastography	ACTIVATED CLOTTING TIME; CARDIOPULMONARY BYPASS; COAGULATION MANAGEMENT; ANTITHROMBIN-III; HEPARIN; PLASMA; ECMO; STANDARD; CHILDREN; INFANTS	287	0	24	2013
89	Bizzarro, MJ; Conrad, SA; Kaufman, DA; Rycus, P	Infections acquired during extracorporeal membrane oxygenation in neonates, children, and adults	PEDIATRIC CRITICAL CARE MEDICINE	4.1	4.2	16	Q1	healthcare-associated infections; extracorporeal membrane oxygenation	NOSOCOMIAL INFECTIONS; LYMPHOCYTE SUBSETS; PREVENTION; SUPPORT	244	0	10	2011
90	Lally, KP; Lally, PA; Lasky, RE; Tibboel, D; Jaksic, T; Wilson, JM; Frenckner, B; Van Meurs, KP; Bohn, DJ; Davis, CF; Hirschl, RB	Defect size determines survival in infants with congenital diaphragmatic hernia	PEDIATRICS	8	8.2	5	Q1	congenital diaphragmatic hernia; pulmonary hypoplasia; neonatal surgery; ECMO	EXTRACORPOREAL MEMBRANE-OXYGENATION; EXPERIENCE; AGENESIS; MANAGEMENT; MORTALITY; REPAIR; CONSEQUENCES; MORBIDITY; THERAPY; ENTITY	215	0	11	2007
91	Baquero, H; Soliz, A; Neira, F; Venegas, ME; Sola, A	Oral sildenafil in infants with persistent pulmonary hypertension of the newborn: A pilot randomized blinded study	PEDIATRICS	8	8.2	5	Q1	neonatal; pulmonary hypertension	INHALED NITRIC-OXIDE; CYCLIC-GMP; PHOSPHODIESTERASE INHIBITORS; INTRAVENOUS SILDENAFIL; ARTERIAL-HYPERTENSION; ERECTILE DYSFUNCTION; VASODILATOR; MANAGEMENT; THERAPY; PATHWAY	239	0	10	2006
92	Walsh-Sukys, MC; Tyson, JE; Wright, LL; Bauer, CR; Korones, SB; Stevenson, DK; Verter, J; Stoll, BJ; Lemons, JA; Papile, LA; Shankaran, S; Donovan, EF; Oh, W; Ehrenkranz, RA;	Persistent pulmonary hypertension of the newborn in the era before nitric oxide: Practice variation and outcomes	PEDIATRICS	8	8.2	5	Q1	pulmonary hypertension of the newborn; newborn; treatments; outcomes; practice variation	EXTRACORPOREAL MEMBRANE-OXYGENATION; SEVERE RESPIRATORY-FAILURE; NEONATAL INTENSIVE-	393	0	12	2000

	Fanaroff, AA								CARE; INFANTS; HYPERVENTILATION; MANAGEMENT; MORTALITY; PROSTATECTOMY; RATES				
93	Davidson, D; Barefield, ES; Kattwinkel, J; Dudell, G; Damask, M; Straube, R; Rhines, J; Chang, CT	Inhaled nitric oxide for the early treatment of persistent pulmonary hypertension of the term newborn: A randomized, double-masked, placebo-controlled, dose-response, multicenter study	PEDIATRICS	8	8.2	5	Q1	extracorporeal membrane oxygenation; bronchopulmonary dysplasia; neonatal outcome; methemoglobinemia; nitrogen dioxide	EXTRACORPOREAL MEMBRANE-OXYGENATION; VENTILATION; EXPERIENCE; THERAPY; NO	248	0	6	1998
94	Finer, N; Solimano, A; Germain, F; Walker, R; Ramirez, AM; Singhal, N; Bourcier, L; Fajardo, C; Cook, V; Kirpalani, H; Monkman, S; Johnston, A; Mullahoo, K; Peliowski, A; Etches, P; Kamstra, B; Wearden, M; Gomez, M; Moon, Y	Inhaled nitric oxide and hypoxic respiratory failure in infants with congenital diaphragmatic hernia	PEDIATRICS	8	8.2	5	Q1		PERSISTENT PULMONARY-HYPERTENSION; GUANYLATE-CYCLASE; RELAXING FACTOR; NEWBORN LAMB; ARTERY; VASOCONSTRICTION; VASODILATOR; THERAPY; MODEL; PATHOPHYSIOLOGY	295	0	7	1997
95	Findlay, RD; Taeusch, HW; Walther, FJ	Surfactant replacement therapy for meconium aspiration syndrome	PEDIATRICS	8	8.2	5	Q1	meconium aspiration syndrome; surfactant; oxygenation; chronic lung injury	SEVERE RESPIRATORY-FAILURE; EXTRACORPOREAL MEMBRANE-OXYGENATION; PULMONARY SURFACTANT; PIGLET MODEL; INFANTS; INHIBITION; NEWBORNS	253	0	4	1996
96	OROURKE, PP; CRONE, RK; VACANTI, JP; WARE, JH; LILLEHEL, CW; PARAD, RB; EPSTEIN, MF	EXTRACORPOREAL MEMBRANE-OXYGENATION AND CONVENTIONAL MEDICAL THERAPY IN NEONATES WITH PERSISTENT PULMONARY-HYPERTENSION OF THE NEWBORN - A PROSPECTIVE RANDOMIZED STUDY	PEDIATRICS	8	8.2	5	Q1			399	0	9	1989

97	Wang, JG; Han, J; Jia, YX; Zeng, W; Hou, XT; Meng, X	Outcome of Venous-Arterial Extracorporeal Membrane Oxygenation for Patients Undergoing Valvular Surgery	PLOS ONE	3.7	3.8	26	Q2		CARDIOGENIC-SHOCK; LIFE-SUPPORT; EXPERIENCE; SURVIVAL; RESCUE; ADULTS; RISK	321	4	130	2013
98	Stub, D; Bernard, S; Pellegrino, V; Smith, K; Walker, T; Sheldrake, J; Hockings, L; Shaw, J; Duffy, SJ; Burrell, A; Cameron, P; Smit, D; Kaye, DM	Refractory cardiac arrest treated with mechanical CPR, hypothermia, ECMO and early reperfusion (the CHEER trial)	RESUSCITATION	6.5	5.4	3	Q1	Cardiac arrest; Resuscitation; Extracorporeal membrane oxygenation	EXTRACORPOREAL LIFE-SUPPORT; CARDIOPULMONARY-RESUSCITATION; MEMBRANE-OXYGENATION; OUTCOMES	463	3	53	2015
99	Sakamoto, T; Morimura, N; Nagao, K; Asai, Y; Yokota, H; Nara, S; Hase, M; Tahara, Y; Atsumi, T	Extracorporeal cardiopulmonary resuscitation versus conventional cardiopulmonary resuscitation in adults with out-of-hospital cardiac arrest: A prospective observational study	RESUSCITATION	6.5	5.4	3	Q1	Out-of-hospital cardiac arrest; Ventricular fibrillation; Cardiopulmonary resuscitation; Extracorporeal cardiopulmonary resuscitation; Advanced life support; Percutaneous cardiopulmonary support	INTERNATIONAL LIAISON COMMITTEE; LIFE-SUPPORT; MEMBRANE-OXYGENATION; HYPOTHERMIA; BYPASS; STATEMENT; OUTCOMES; HEART	386	2	37	2014
100	BARTLETT, RH; ANDREWS, AF; TOOMASIAN, JM; HAIDUC, NJ; GAZZANIGA, AB	EXTRACORPOREAL MEMBRANE-OXYGENATION FOR NEWBORN RESPIRATORY-FAILURE - 45 CASES	SURGERY	-	-	-	-			264	0	4	1982