

1. Record Nr.	UNINA9910583087403321
Titolo	Mechanical circulatory and respiratory support // editors, Shaun Gregory, John Fraser, Michael Stevens
Pubbl/distr/stampa	London, England : , : Academic Press, , 2018 ©2018
ISBN	0-12-810492-9 0-12-810491-0
Descrizione fisica	1 online resource (854 pages)
Disciplina	617.412
Soggetti	Blood - Circulation, Artificial Artificial respiration
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Descent into heart and lung failure -- Heart and lung transplantation -- First-generation ventricular assist devices -- Second-generation ventricular assist devices -- Third-generation ventricular assist devices -- Biventricular assist devices -- Total artificial hearts -- Extracorporeal membrane oxygenation -- Pediatric devices -- Hydraulic design -- Motor design and impeller suspension -- Pulsatile vs. continuous flow -- Preclinical evaluation -- Optimizing the patient and timing of the circulatory and extracorporeal respiratory support -- Surgical implantation -- Complications of mechanical circulatory and respiratory support -- Medical management of the supported patient -- Cannula design -- Blood-device interaction -- Physiological control -- Percutaneous and transcutaneous connections -- Wearable systems -- Route to market -- Cost-effectiveness -- The past, present and future.