



LivaNova
Advanced Circulatory Support

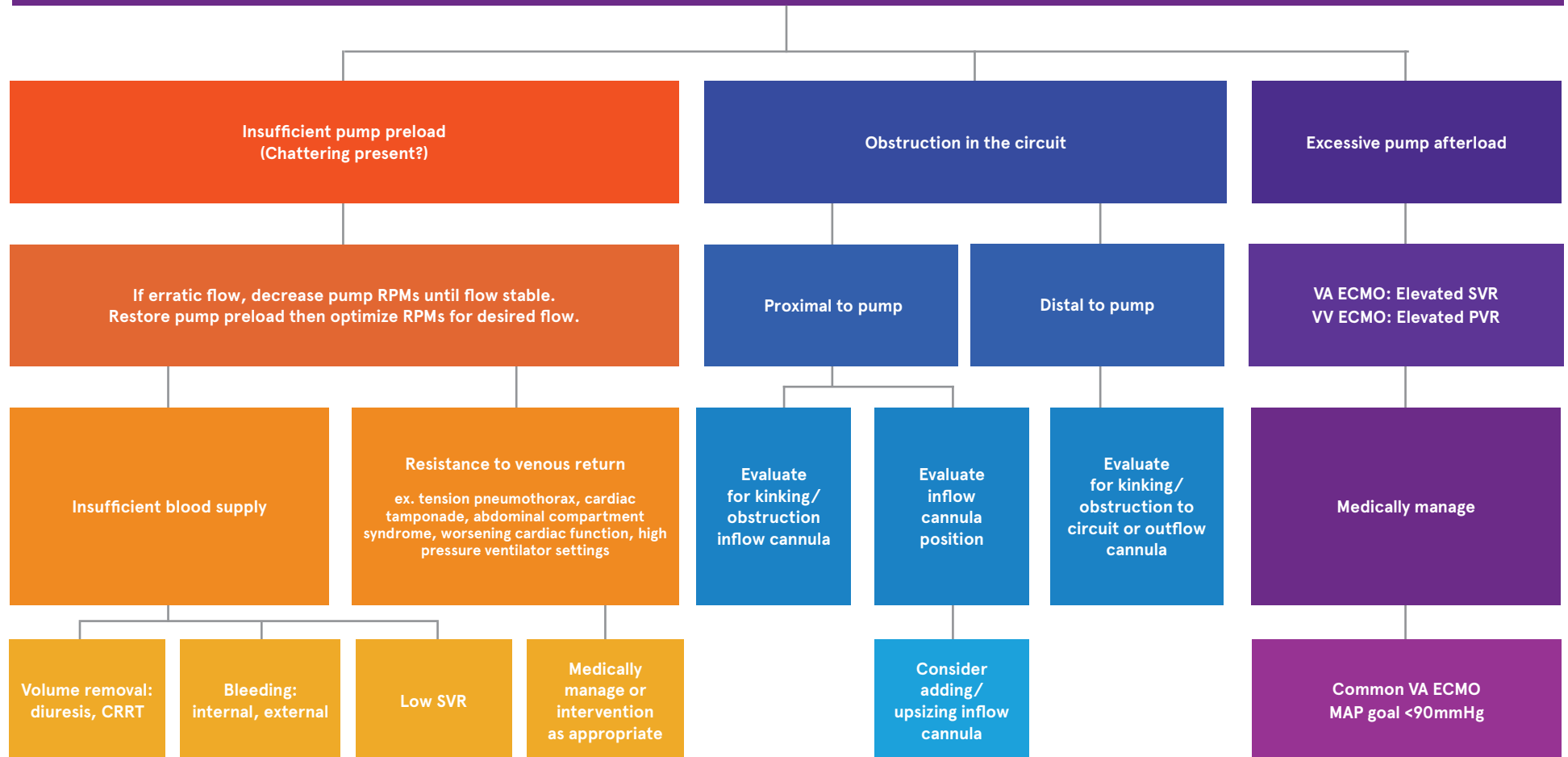
ECMO Troubleshooting Guide

LivaNova USA | Manufactured by CardiacAssist, Inc | 620 Alpha Drive, Pittsburgh PA 15238

24/7 Clinical Support 800 373 1607 | **Toll Free** 800 373 7421 | **Visit** LivaNova.com

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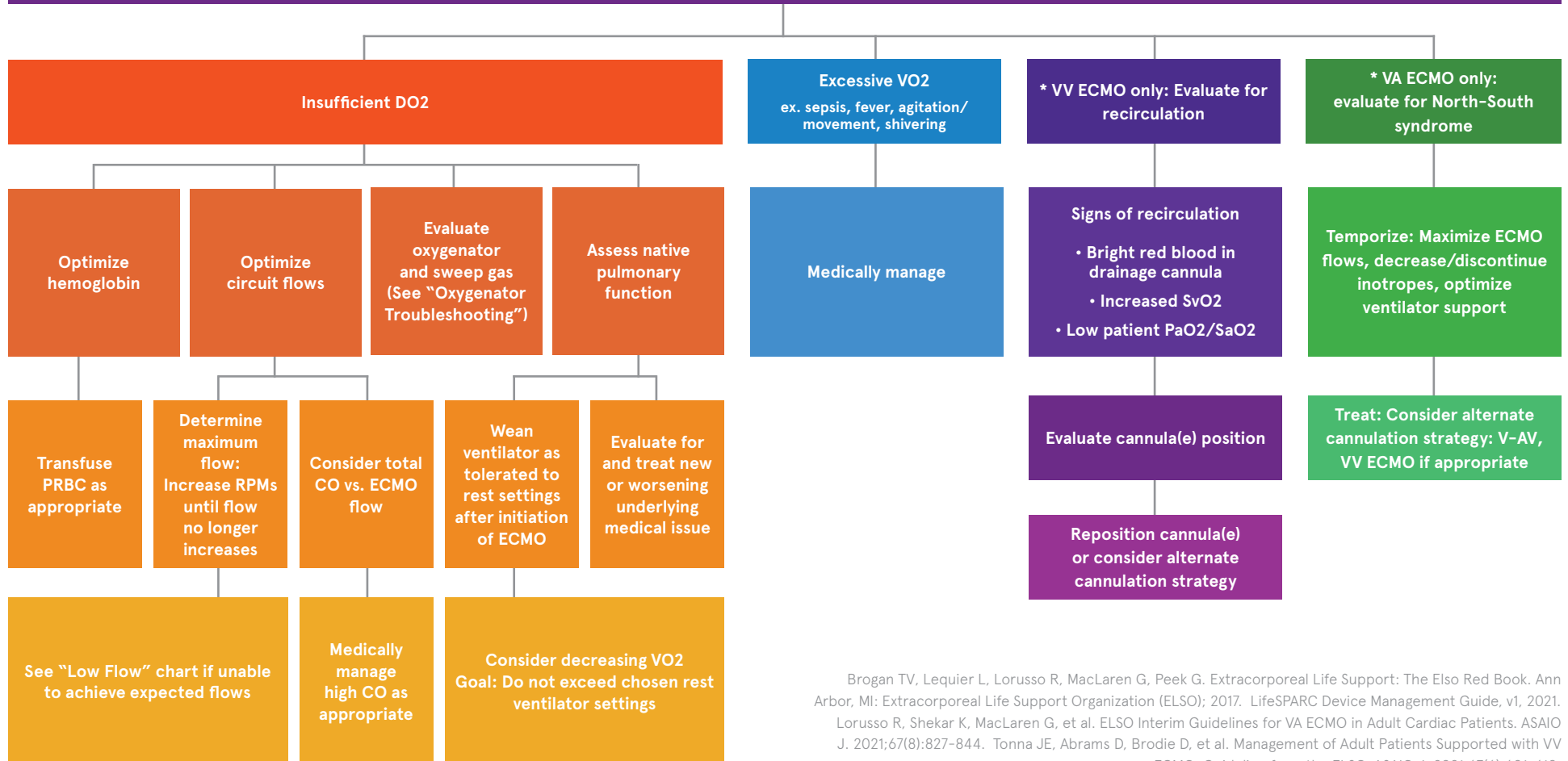
Low Flow



Hoyler MM, Flynn B, Iannacone EM, Jones MM, Ivascu NS. Clinical Management of VA ECMO. J Cardiothorac Vasc Anesth. 2020;34(10):2776-2792. King CS, Roy A, Ryan L, Singh R. Cardiac Support: Emphasis on VA ECMO. Crit Care Clin. 2017;33(4):777-794. LifeSPARC Device Management Guide, v1, 2021. Patel B, Arcaro M, Chatterjee S. Bedside troubleshooting during VV ECMO. J Thorac Dis. 2019;11(Suppl 14):S1698-S1707.

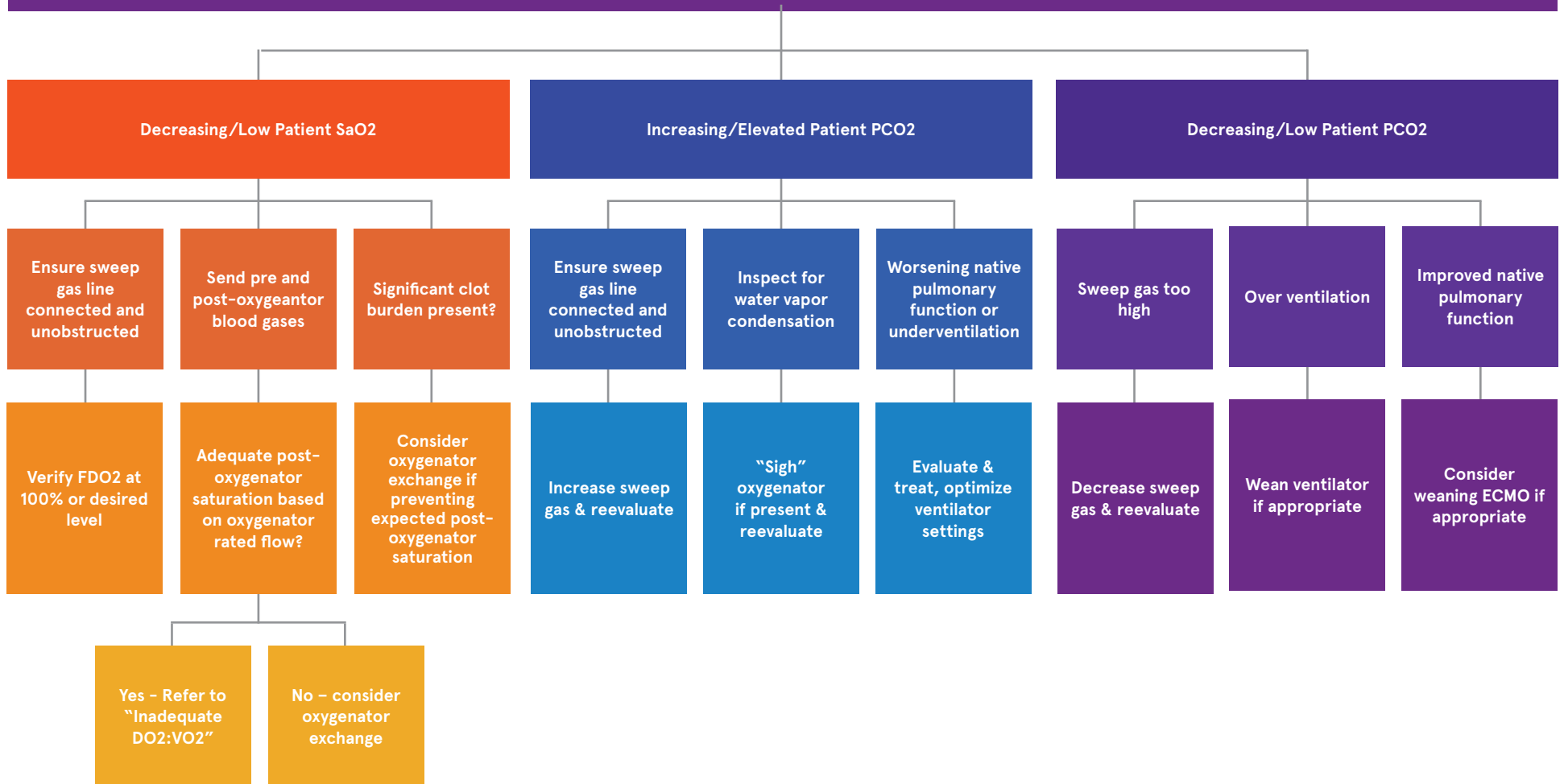
Inadequate DO₂:VO₂

(Low SVO₂, elevated lactate)



Brogan TV, Lequier L, Lorusso R, MacLaren G, Peek G. Extracorporeal Life Support: The Elso Red Book. Ann Arbor, MI: Extracorporeal Life Support Organization (ELSO); 2017. LifeSPARC Device Management Guide, v1, 2021. Lorusso R, Shekar K, MacLaren G, et al. ELSO Interim Guidelines for VA ECMO in Adult Cardiac Patients. ASAIO J. 2021;67(8):827-844. Tonna JE, Abrams D, Brodie D, et al. Management of Adult Patients Supported with VV ECMO: Guideline from the ELSO. ASAIO J. 2021;67(6):601-610.

Oxygenator Troubleshooting



BROGEN THOMAS. ECMO Specialist Training Manual. S.I.: ELSO; 2018.