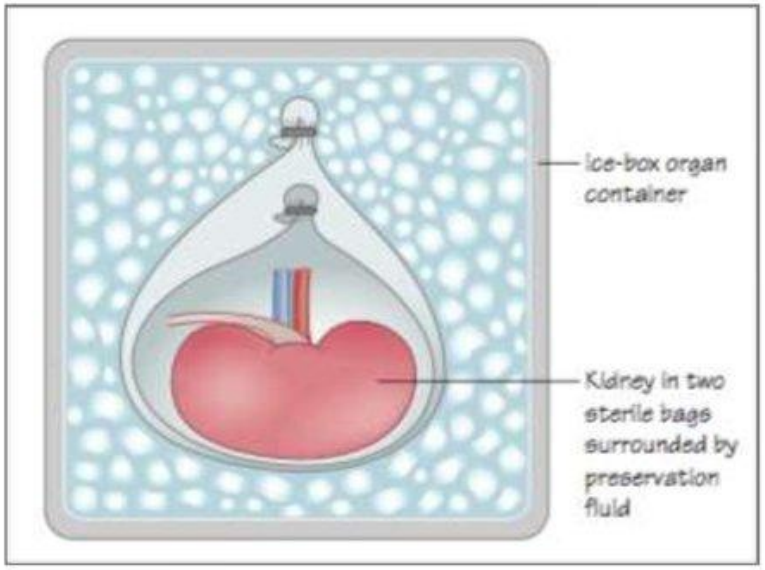
ФНЦ ТРАНСПЛАНТОЛОГИИ
И ИСКУССТВЕННЫХ ОРГАНОВ
ИМЕНИ АКАДЕМИКА В.И. ШУМАКОВА

Схемы контуров аппаратов машинной перфузии

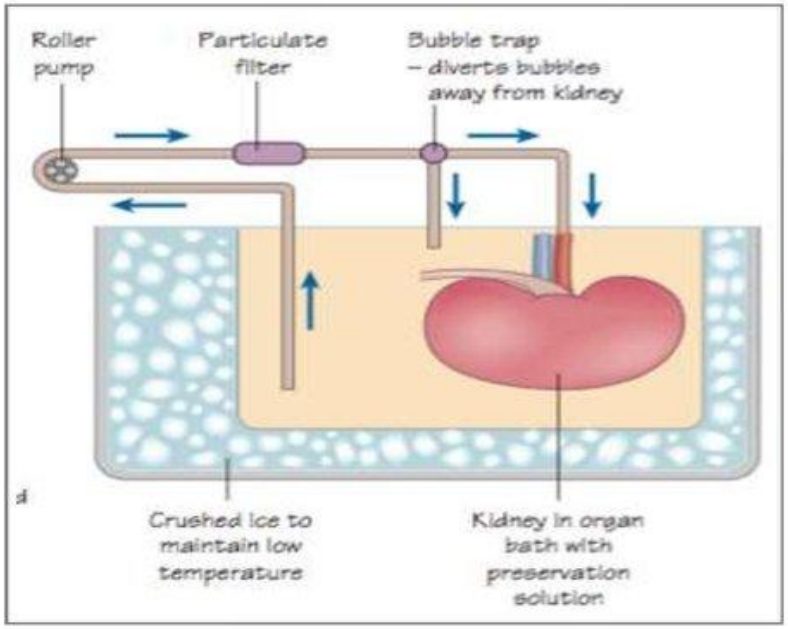
Богданов В.К. Пед.Фак. 6 курс
ФГБОУ ВО ТГМУ (Тверь)

Консервация

Бесперфузионная



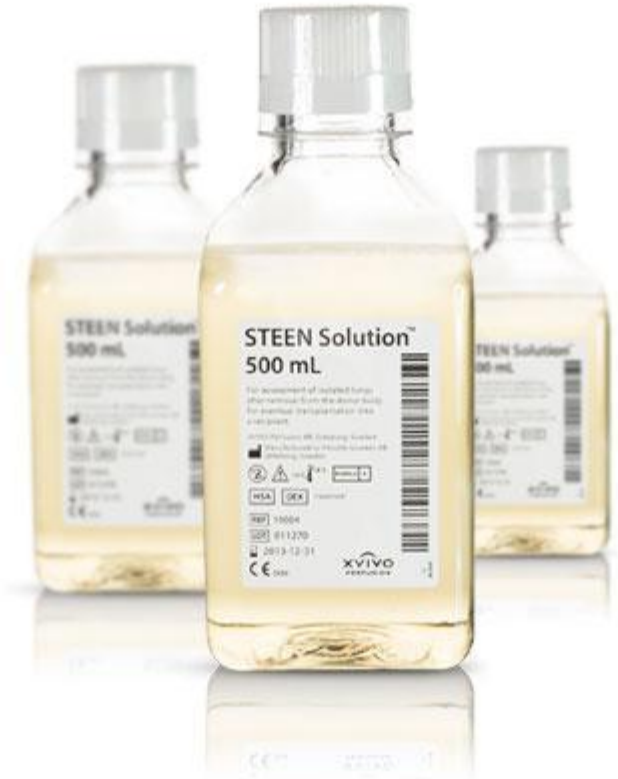
Перфузионная



Кристаллоидная консервация

CUSTODIOL®
Rx only
Rx Rx
Rx Rx
Rx Rx

Перфузионная консервация



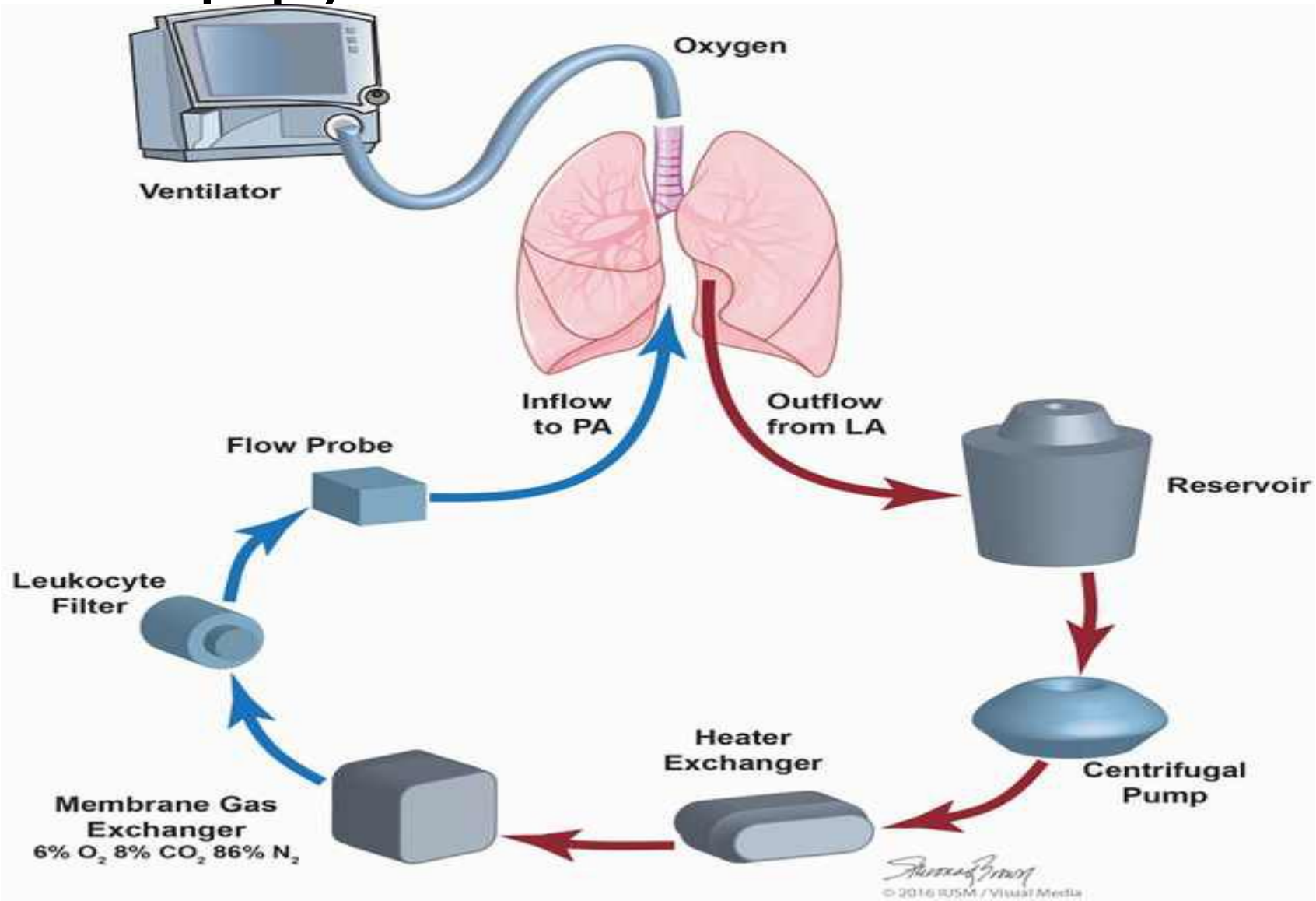
Auto Vent-SV™
AUTO-VENTING BLOOD FILTER

PALL PRE•BYPASS PLUS
0.2 MICRON FILTER
FOR PRIMING CARDIOPULMONARY BYPASS CIRCUITS
Warning: Not for use with cellular blood products.
Follow instructions for use.
Do not reuse.

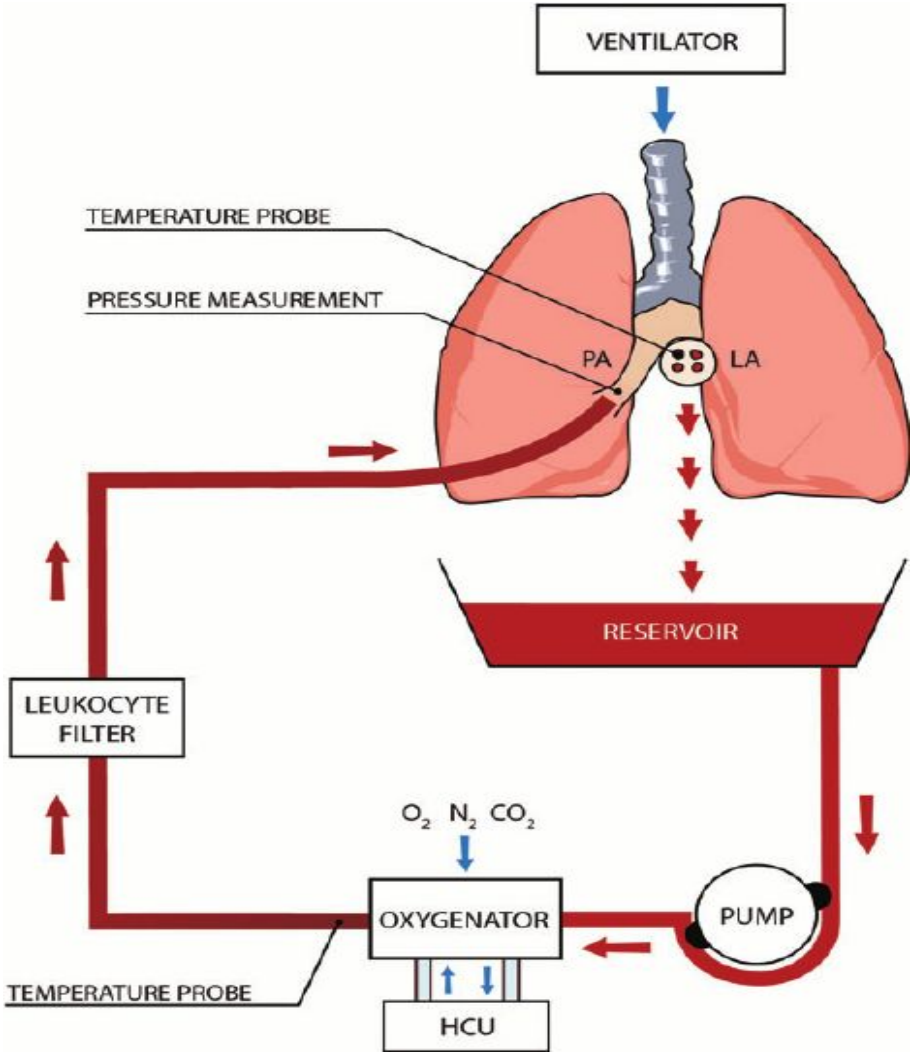
BIOMEDICA
FILTRO DE SANGUE ARTERIAL

Infantil / Pediátrico
BIOMEDICA
FILTRO DE SANGUE ARTERIAL

Закрытая нормотермическая перфузионная система легких



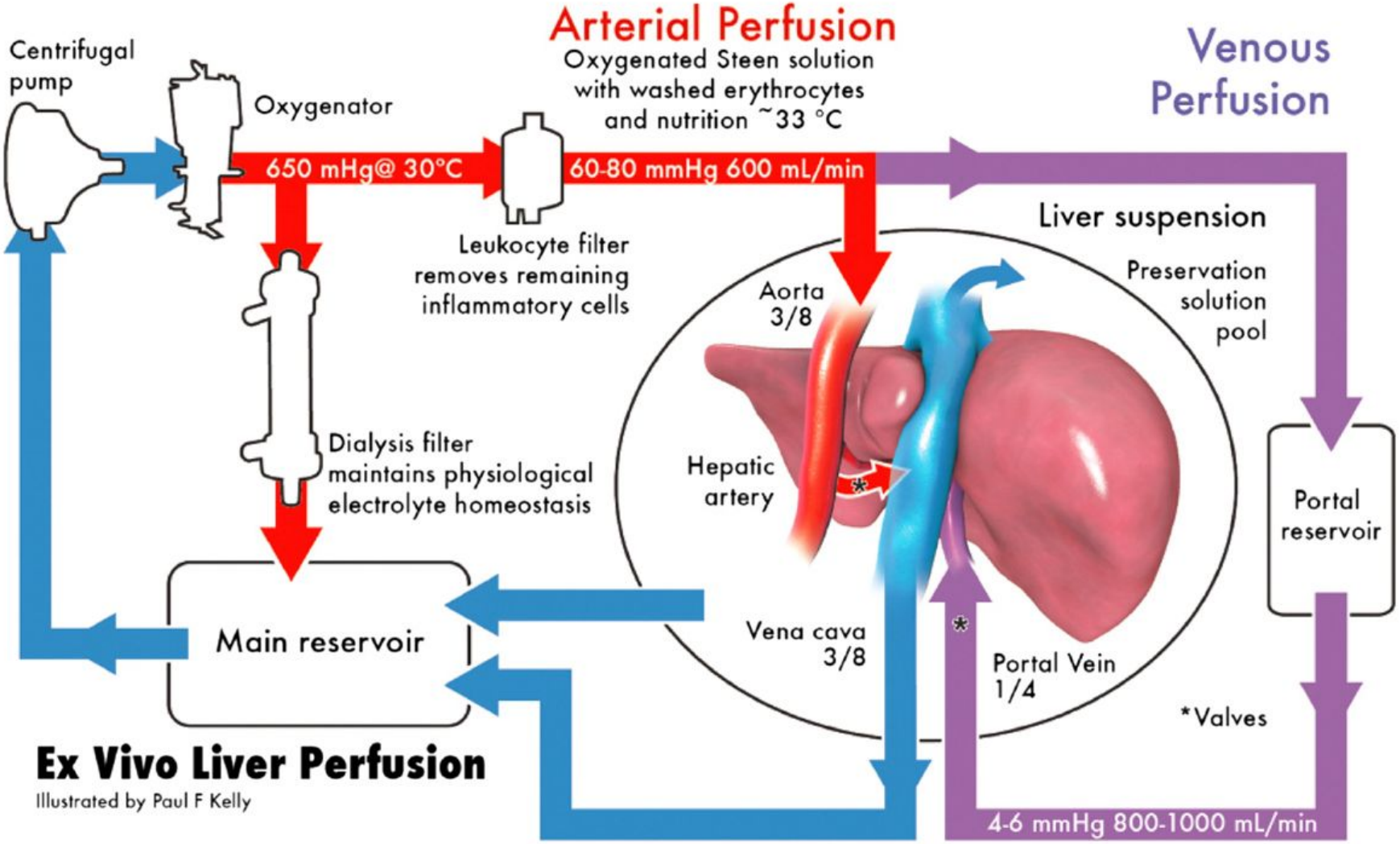
Открытая нормотермическая перфузионная система легких



Chew HC, et al. J Thorac Dis. 2019

XVIVO XPS by XVIVO Perfusion (Toronto)

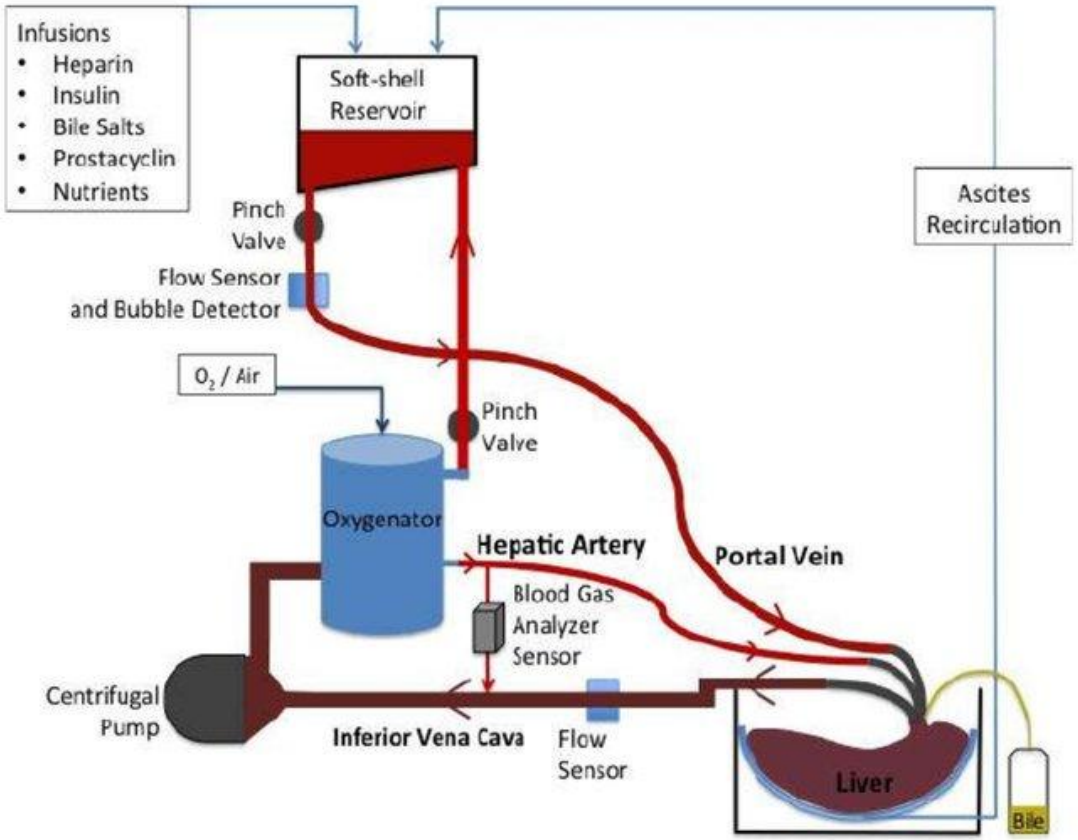
Контур нормотермической перфузии печени



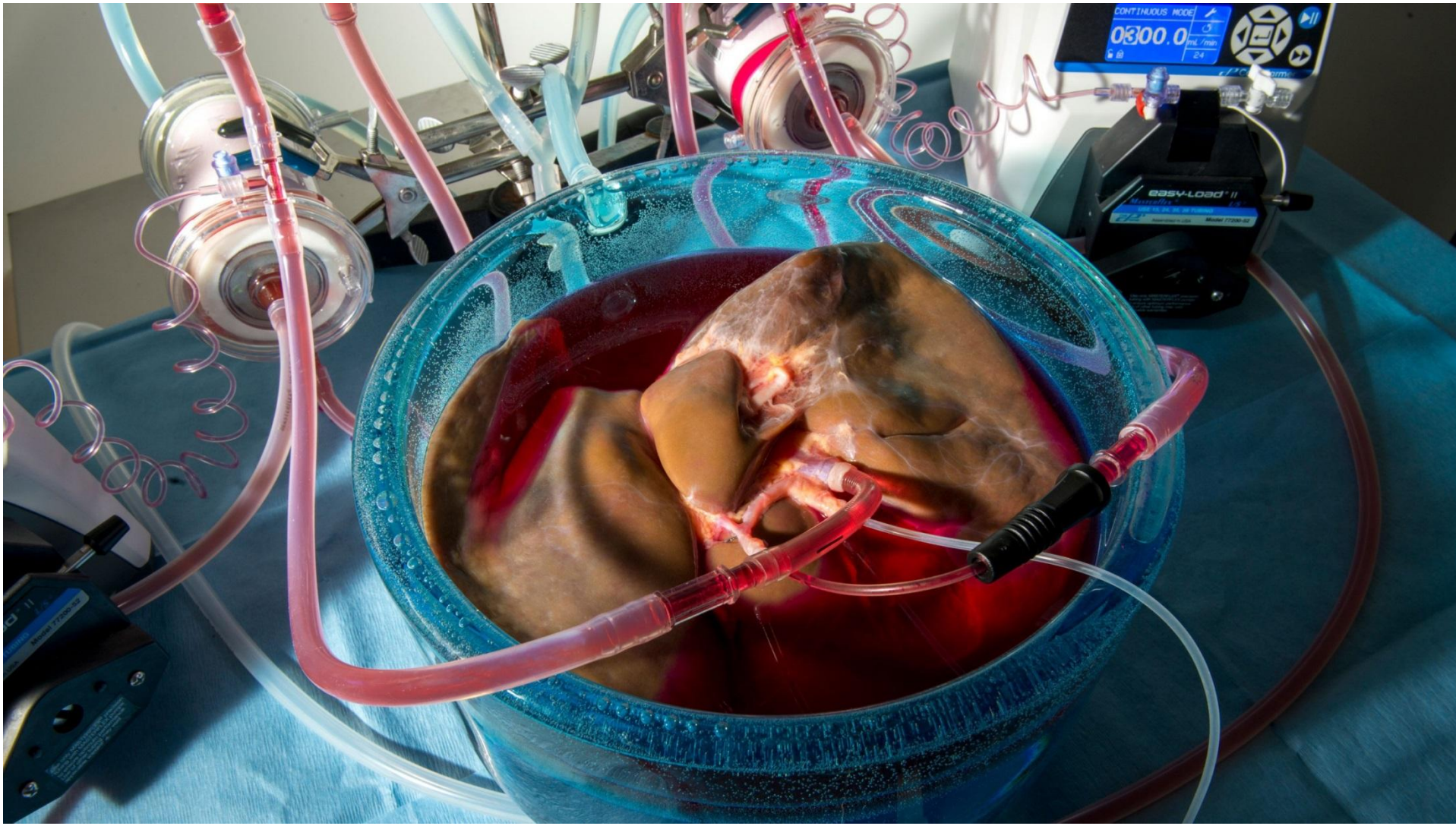
Transplant Rev (Orlando). 2016 Jul;30(3) Barbas A.S.

OrganOx

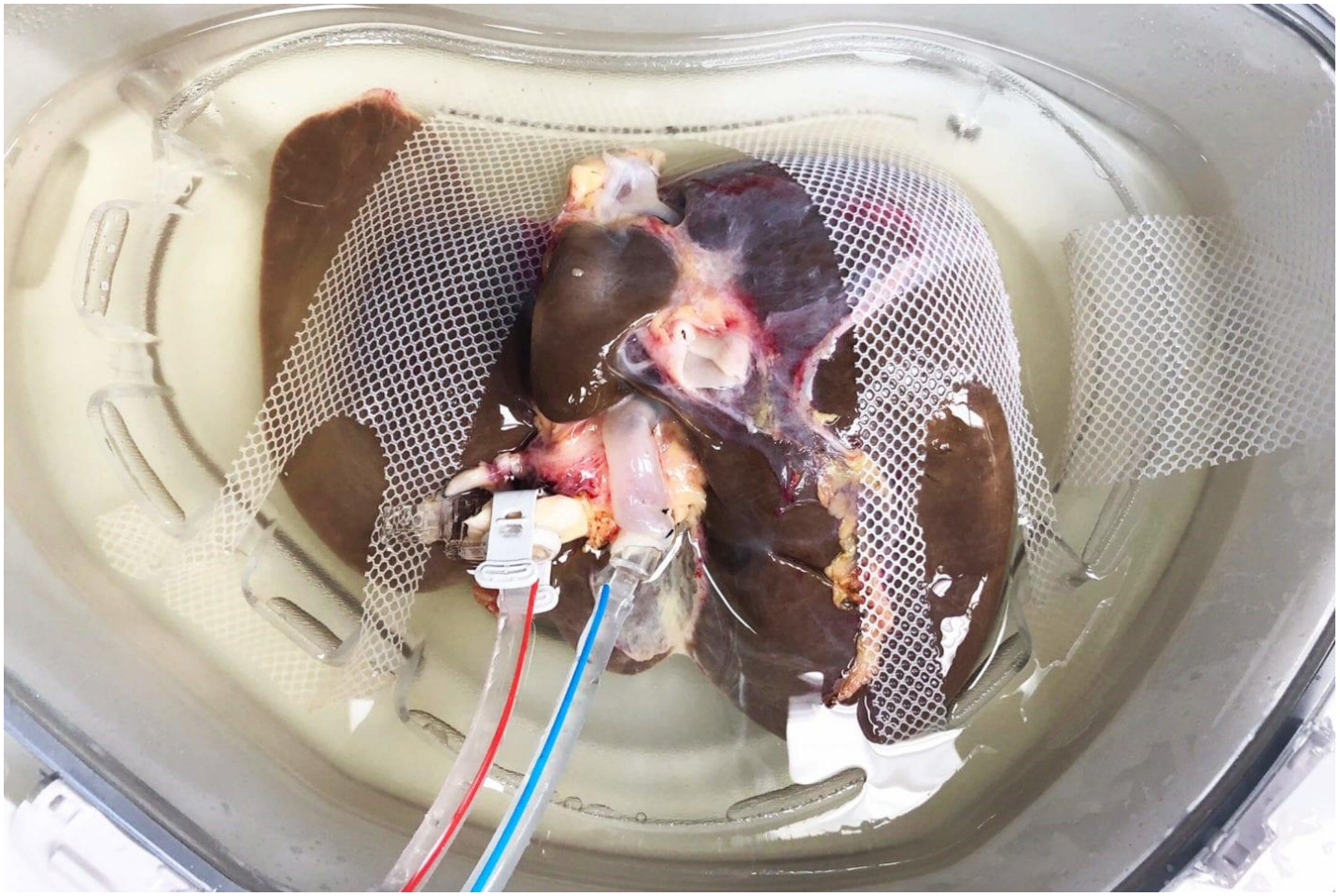
Схема аппарата нормотермической перфузии



Ravikumar R, Jassem W, Mergental H, Heaton N, Mirza D, Perera MTPR, Quaglia A, Holroyd D, Vogel T, Coussios CC, Friend PJ. Am J Transplant 2016. Liver Transplantation After Ex Vivo Normothermic Machine Preservation: A Phase 1 (First-in-Man) Clinical Trial

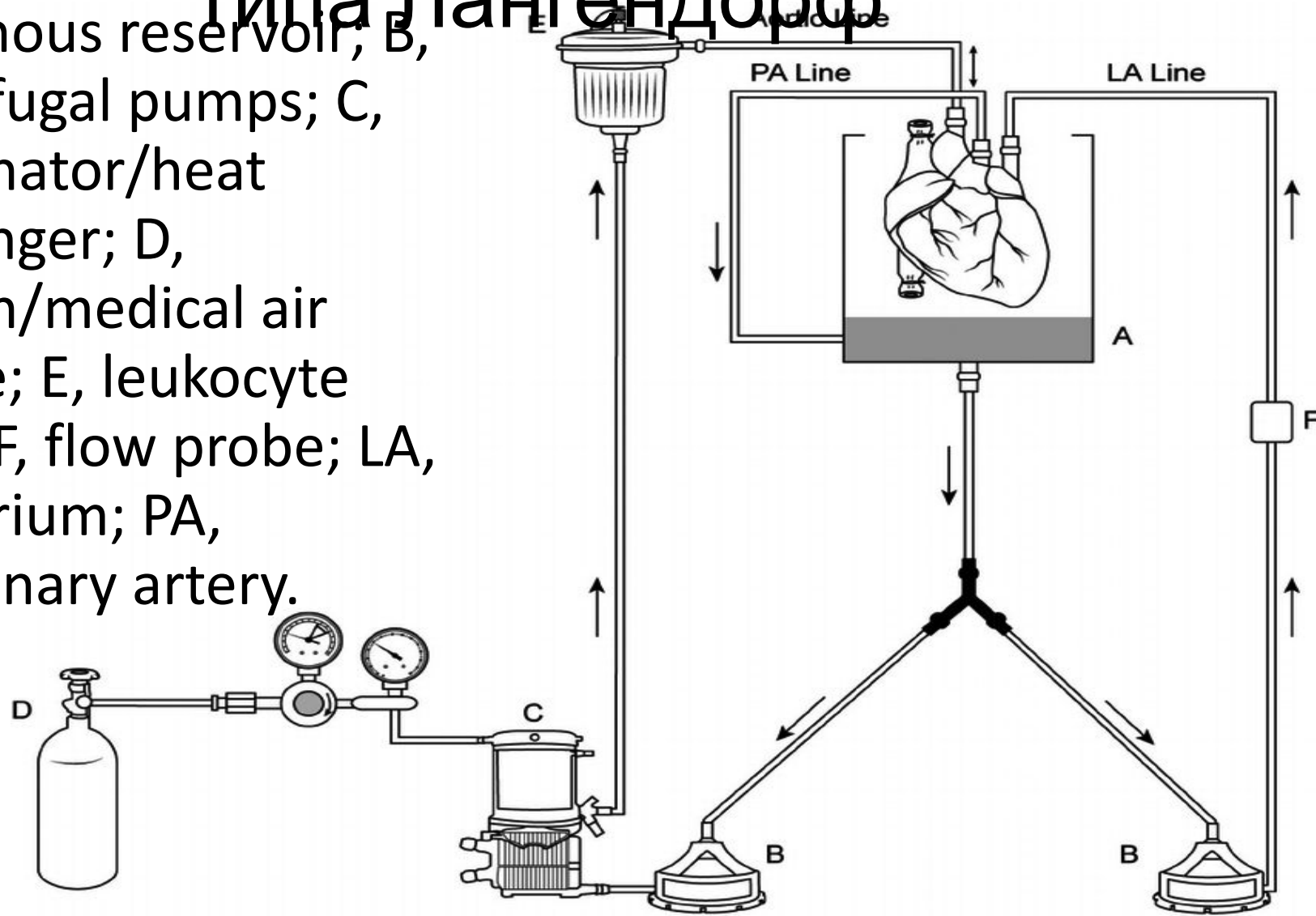

CONTINUOUS MODE
easy-load II

Гипотермическая машинная перфузия печени аппаратом LifePort Liver

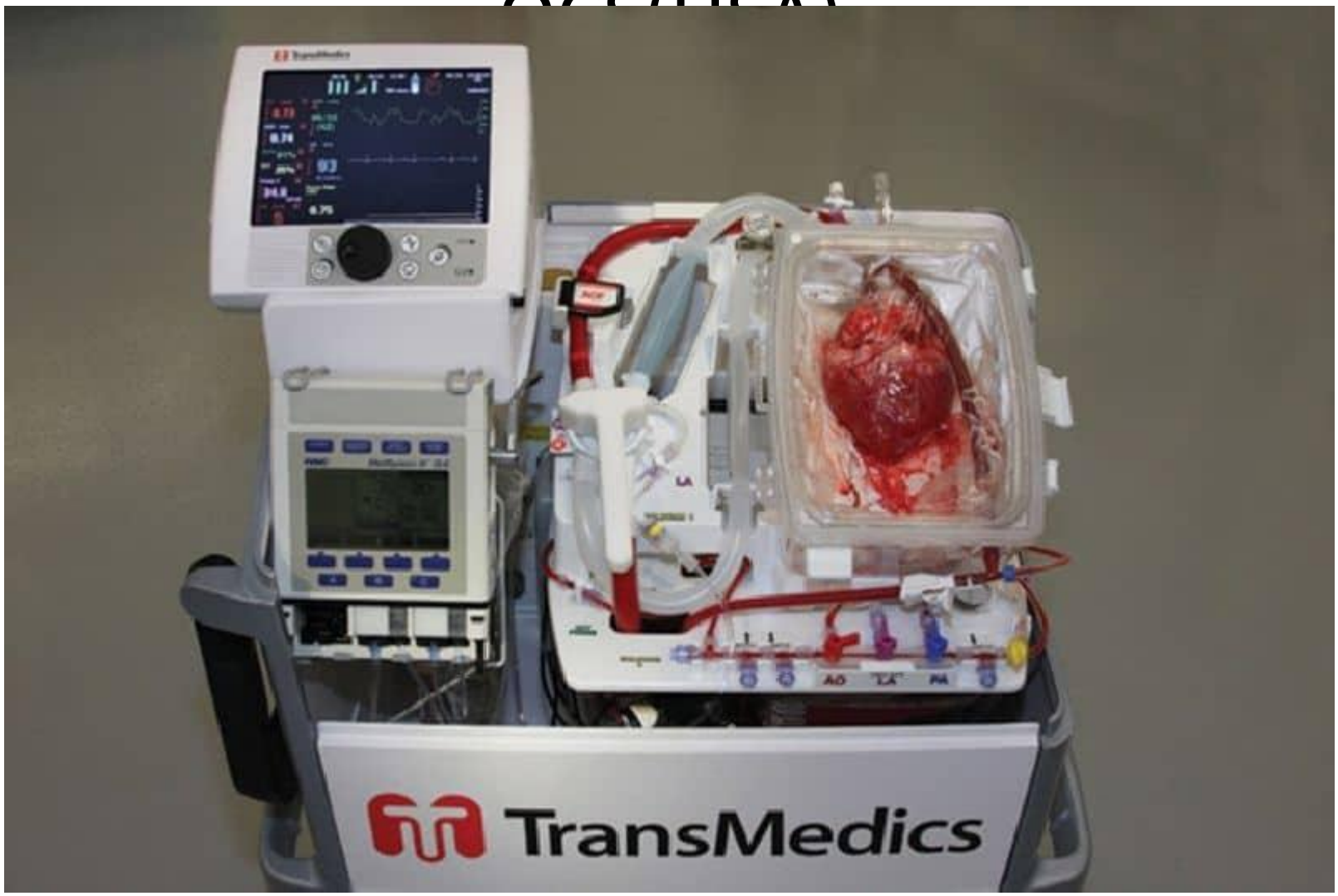


Нормотермическая перфузия сердца типа Лангендорф

- A, venous reservoir; B, centrifugal pumps; C, oxygenator/heat exchanger; D, oxygen/medical air source; E, leukocyte filter; F, flow probe; LA, left atrium; PA, pulmonary artery.

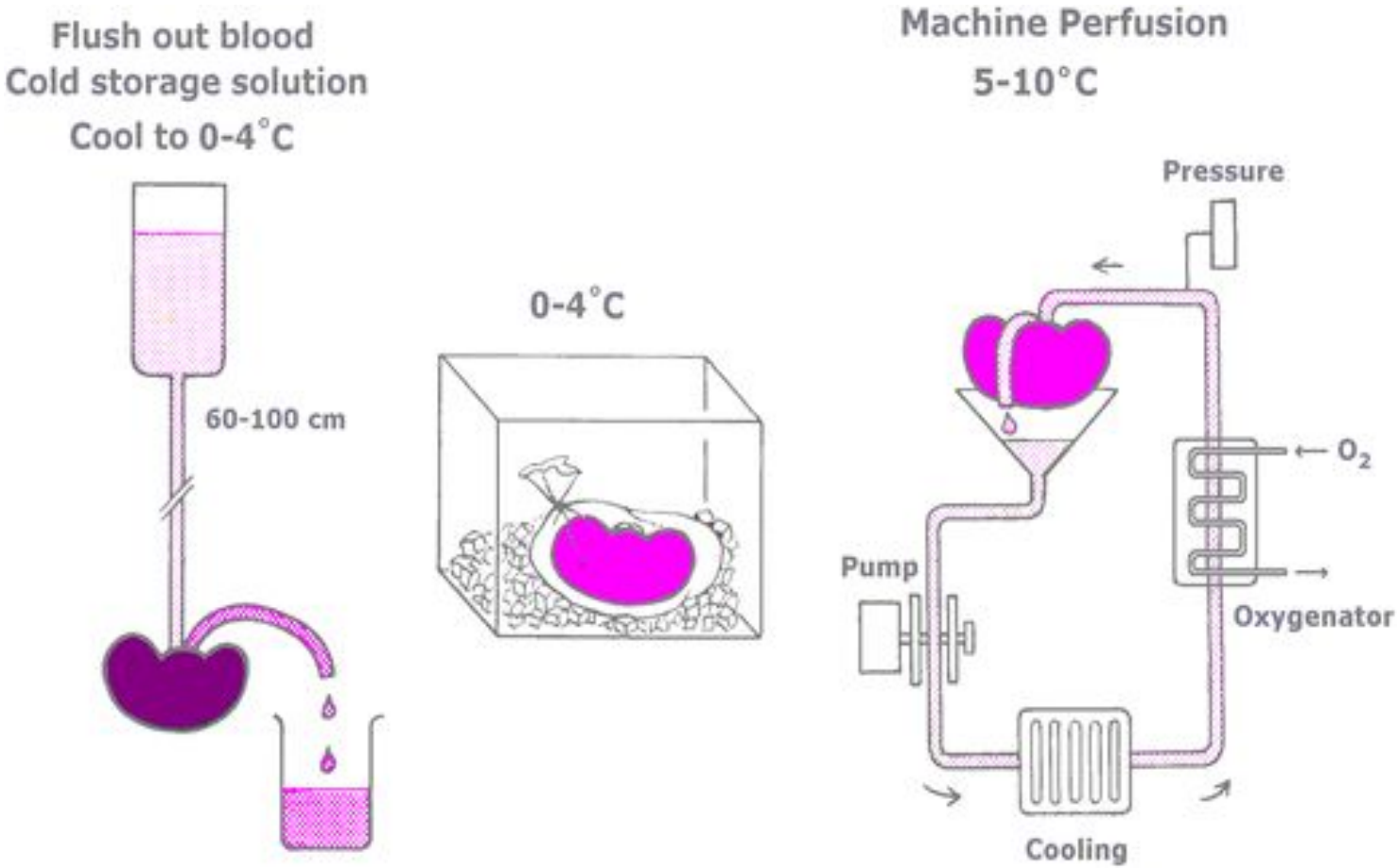


Перфузионная система донорского сердцаTransMedics OCS(USA)

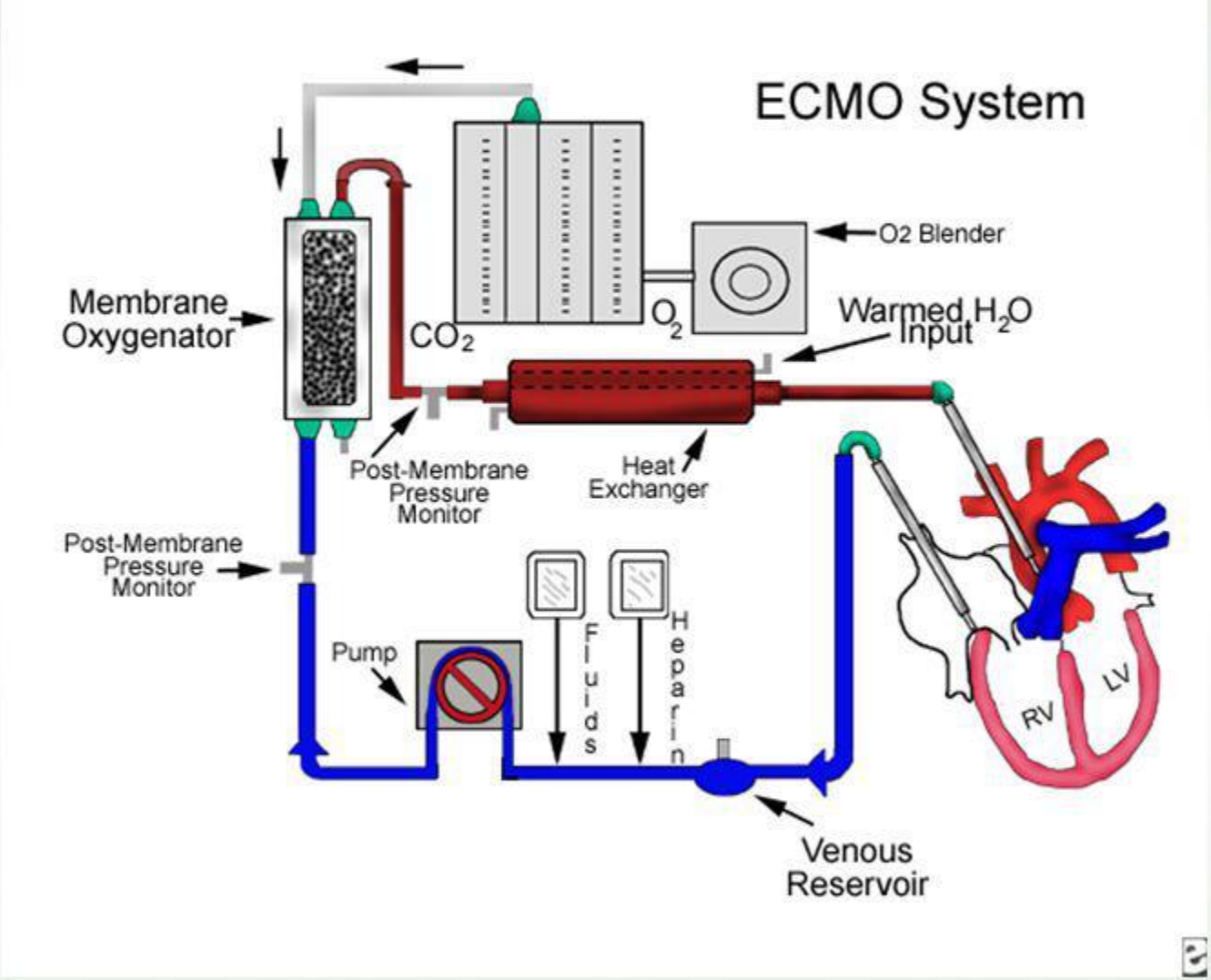


Chew HC, et al. J Thorac Dis. 2019

Контур гипотермической перфузии почки



Перфузионная система донорской почки LifePort Kidney Transporter

O'Callaghan JM, Morgan RD, Knight SR, Morris PJ (2013)

ЭКМО – лучшая перфузионная система для донора