Supplemental Information

SUPPLEMENTAL VIDEO 1
Dynamic short axis approach for line insertion.

SUPPLEMENTAL VIDEO 2
High-frequency linear probe for assessment of target vessel trajectory, depth and presence of bifurcations to accurately select the best cannulation site.

SUPPLEMENTAL VIDEO 3
Real-time ultrasound guidance of pediatric IJ CVC placement.

SUPPLEMENTAL VIDEO 4
Real-time ultrasound guidance of neonatal femoral CVC placement.

SUPPLEMENTAL VIDEO 5
Real-time supraclavicular ultrasound guidance of brachiocephalic vein cannulation.
SUPPLEMENTAL VIDEO 6
Short axis approach of neonatal radial arterial line placement.

SUPPLEMENTAL VIDEO 7
Dynamic ultrasound guided lumbar puncture.

SUPPLEMENTAL VIDEO 8
Right upper quadrant ultrasound confirming the presence of ascitis.

SUPPLEMENTAL VIDEO 9
Real-time ultrasound guided paracentesis.

SUPPLEMENTAL VIDEO 10
Real-time ultrasound guided pericardiocentesis.

SUPPLEMENTAL VIDEO 11
Pleural ultrasound confirming the presence of moderate size pleural effusion.

SUPPLEMENTAL VIDEO 12
Real-time ultrasound guided suprapubic aspiration.

SUPPLEMENTAL VIDEO 13
Soft tissue ultrasound for the diagnosis of a subcutaneous abscess using a high frequency linear probe.