

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.