



Supplemental Figure 16. Renal vein Doppler abnormalities and right atrial pressure. Physiological mechanisms of alterations in renal venous flow patterns. A) Normal continuous renal venous flow in the context of normal central venous pressure (CVP) and high central venous compliance. B) In the context of CVP increase, central venous compliance decrease resulting in the transmission of CVP variations producing discontinuous biphasic renal venous flow. C) In the setting of right ventricular failure, the CVP waveform is modified with a decrease of the X descent and a prominence of the Y descent resulting in a discontinuous monophasic diastolic renal venous flow. Improvement in right ventricular function will lead to a change from a biphasic or monophasic renal venous flow to a normal continuous renal flow. Abbreviations: IVC, inferior vena cava; LA, left atrium; LV, left ventricle; RA, right atrium; RV, right ventricle. (With permission of Beaubien-Souligny et al.⁷⁸) (Supplemental Digital Content 52, Fig 16, View 8,

<http://links.lww.com/AA/D519>)