



**Supplemental Figure 15.** Renal artery Doppler abnormalities. (A) Pulsed wave spectral Doppler of a renal artery in a patient with aortic stenosis. Note the pulsus tardus or delayed peak systolic Doppler signal (arrow) in the arterial Doppler signal or prolonged acceleration time (>70 msec).<sup>91</sup> (B) Abnormal renal venous Doppler signal in a 76-year-old man after cardiopulmonary bypass. Note the uniphasic diastolic waveform and biphasic on the fourth Doppler signal.<sup>85</sup> (C) Renal artery air embolism and (D) simultaneous transcranial Doppler upon unclamping at the end of cardiopulmonary bypass. A total of 3590 high-intensity transient signals (HITS) occurred during the procedure. Abbreviations: EDV, end-diastolic velocity; MV, mean velocity; PI, pulsatility index; PSV, peak systolic velocity. (Supplemental Digital Contents 49-50, Fig 15C & 15D, View 8, <http://links.lww.com/AA/D516> and <http://links.lww.com/AA/D517>)