



Figure 9. DC PPG for lower limb venous assessment (light reflection rheography, LRR). The PPG probe is attached to the ankle and the patient performs a series of controlled dorsiflexions of the foot whilst sitting in the position shown in (a). Venous pump traces obtained using the Rheo Dopplex™ vascular assessment system are shown for (b) a healthy subject and (c) for a patient with chronic venous insufficiency (CVI). In CVI patients the time to recover to baseline levels, i.e. the venous refill time, is shorter and typically less than 20 s. Furthermore, the efficiency of the venous calf/foot pump mechanism can be impaired in patients with venous disease. (Figures are courtesy of Huntleigh Healthcare, UK.)