

VASCULAR ACCESS BLOOD COLLECTION DEVICES AND RELATED METHODS

ABSTRACT

5 The present disclosure is directed to a needle assembly for drawing blood. The needle
assembly can be a standalone or part of an over-the-needle medical device, such as an
intravenous catheter. A blood collection device is attached directly or indirectly to the needle
hub of the needle assembly and/or to a catheter hub, such as through a Y-site or adaptor
connected to a tubing that is connected to the catheter hub. The needle is configured to access
10 the vascular system to draw blood, which then passes to the blood collection device via the
needle lumen, which has a tip having a discontinuity opening, an opening with a movable stem,
or a shaft element with a lumen.

Fig. 1