A fluid transfer system, including a channel member, adapted for connection between an arterial or venous catheter and an IV fluid administration system. The channel member includes a duct and an access port. An adapter including a recessed needle assembly is provided for mounting to the access port of the channel member. A syringe, IV tubing or an evacuated container may be mounted directly to the channel member via the adapter. Safety is substantially enhanced by recessing the needle assembly of the adapter.

4 Claims, 2 Drawing Sheets