

BLOOD TREATMENT SYSTEMS AND METHODS

ABSTRACT

The present invention generally relates to hemodialysis and similar dialysis
5 systems, including a variety of systems and methods that would make hemodialysis more
efficient, easier, and/or more affordable. One aspect of the invention is generally
directed to new fluid circuits for fluid flow. In one set of embodiments, a hemodialysis
system may include a blood flow path and a dialysate flow path, where the dialysate flow
path includes one or more of a balancing circuit, a mixing circuit, and/or a directing
10 circuit. Preparation of dialysate by the preparation circuit, in some instances, may be
decoupled from patient dialysis. In some cases, the circuits are defined, at least partially,
within one or more cassettes, optionally interconnected with conduits, pumps, or the like.
In one embodiment, the fluid circuit and/or the various fluid flow paths may be at least
partially isolated, spatially and/or thermally, from electrical components of the
15 hemodialysis system.

[No suitable Figure]