

CRITICAL WATER AND DIALYSATE REQUIREMENTS

- ❖ **Water (product) chemical quality**
 - Within maximum allowable levels per AAMI:RD 52 Table 1 (V177)
 - Tested at least annually and as indicated (V201)
- ❖ **Water (product) microbiological quality**
 - Maximum 200CFU/2EU; Action levels 50CFU/1EU (V178)
 - Distribution system disinfected monthly (V219)
 - Tested at least monthly from sites; actions taken if >action levels (V213)
- ❖ **Dialysate microbiological quality**
 - Maximum 200CFU/2EU; Action levels 50CFU/1EU (V180)
 - Tested monthly from at least 2 HD machines; each HD machine tested at least annually; sampling methods; actions taken if >action levels (V253)
- ❖ **Chlorine/chloramines removal (carbon)**
 - 2 carbon tanks (or banks of tanks) with sample port between (V192)
 - Sufficient carbon to remove chlorine/chloramines; total EBCT 10 min-verified by interview and/or record review (V195)
- ❖ **Chlorine testing**
 - Water after first carbon tank(s) tested for total chlorine prior to each ICHD shift or approx. q 4 hours during the treatment day (V196)
 - If total chlorine test >0.1mg/L, "breakthrough", immediate actions taken (V197)
- ❖ **Reverse Osmosis unit function and monitoring**
 - Function monitored and recorded daily by % rejection & conductivity or TDS; audible & visible alarms (V199, 200)
- ❖ **Deionization system monitoring (if present or part of back-up plan)**
 - Resistivity continuously monitored; audible & visible alarms in patient treatment areas; resistivity maintained >1.0 megohm/cm (V202, 203)
 - Automatic divert-to-drain or automatic cut-off valve to prevent water flow to the HD machines (V203)
 - DI followed by ultrafilter (V204)
- ❖ **Dialysate proportioning ratios match**
 - Only matching dialysate proportioning ratios used on HD machine set at same ratio (V249)
- ❖ **Dialysate pH & conductivity testing at HD machine prior to treatment**
 - Dialysate pH & conductivity tested at the HD machine with an independent method prior to each treatment per machine manufac. DFU (V250)
- ❖ **Staff training and monitoring**
 - All staff who conduct water, dialysate testing and technical operations sufficiently trained; practices audited at least annually (V260)

Water System Flow Diagram

