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PROJECTIVE FLUID REMOVAL IN SEQUENTIAL THERAPY

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PURPOSE: To identify the approximate UFR coefficient of a particular patient and a hollow fiber kidney at the onset of Hemofiltration, thereby utilizing that defined coefficient projectively to attain within 10% the amount of fluid removal needed.

METHOD: Using a HFK 1.2 M² with a blood flow of 200 cc/minute and a dialysate flow of 500 cc/minute we, in a matter of minutes, ascertained the projective obligatory TMP which would be encountered during HD. Using the formula TMP1 = NP + (Ap+Vr)/2, we found TMP1 = 180 torr. We then commenced HF, using defined TMP to calculate the patient UFR; we found that a TMP of 565 torr in a matter of 20 minutes or .333 hour, we removed exactly 350 cc of filtrate. Using the formula UFR = fl/dt/TMP we calculated the UFR to be at 1.86 cc/torr/hr. The final formula: TMP2 = FL/(UFR) (dt) + TMP1 incorporates data gained in steps 1 & 2 and establishes the needed TMP for 2 hours of HF, though taking into account the obligatory TMP during 2 hours of HD with our patient, we found we needed to remove 5.5 pounds and did so using projective fluid removal in sequential therapy.

SUMMARY AND CONCLUSION: Utilizing 3 interrelated algebraic expressions, we have been able to show that projected fluid removal in sequential therapy is not only possible, but also practical to achieve the desired fluid loss.

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