

**Abstract Submission No.: A-1206****Compatibility of Hemodialysis Adequacy Kt/V Calculation of Daugirdas Formula and Kt/V Hemodialysis Machine in Chronic Kidney Disease Patients Who Underwent Hemodialysis at Saiful Anwar Hospital, Malang, Indonesia.**

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**Objectives :** Hemodialysis (HD) is a therapy for patients with chronic kidney disease (CKD) known since 1960. To determine the adequacy of the hemodialysis dose can be measured by hemodialysis adequacy, which is calculated by the Kt/V formula. Since 2019 the Hemodialysis machine at Saiful Anwar Hospital Malang has been equipped with a Kt/V program value obtained by entering data on gender, body weight, blood flow velocity, and dialysate flow velocity on the HD machine. This study aims to determine whether the Kt/V program value listed on the Hemodialysis machine in Saiful Anwar Hospital Malang is by the Kt/V calculation of the Daugirdas formula.

**Methods :** An observational study design with a cross-sectional method was used. Patients who underwent routine hemodialysis at Saiful Anwar Hospital Malang during the study period were followed during the study period for data collection. Data collected included gender, age, number of re-uses, and comorbidities. KT/V and URR data were obtained from blood tests when the patient finished hemodialysis. Blood was taken pre-HD and post-HD in the same session. The difference in Kt/V values between the HD machine and the Daugirdas formula using the independent t-test with normally distributed.

**Results :** Of 115 subjects 54.8% of male and 45.2% of female, 96.5% of subjects underwent Hemodialysis twice per week and the rest 3 times per week. The most comorbid is hypertension 67.35%. The results of the analysis using the independent t-test showed the results of  $p = 0.545$  which proves that there is a correspondence between the Kt/V value listed on the hemodialysis machine at Saiful Anwar Hospital Malang and the Kt/V calculation of the Daugirdas formula.

**Conclusions :** There is no difference in the Kt/V value on the hemodialysis machine with the calculation of the Daugirdas formula. To assess hemodialysis adequacy we can use the Kt/V found on the hemodialysis machine.

Table 1.png

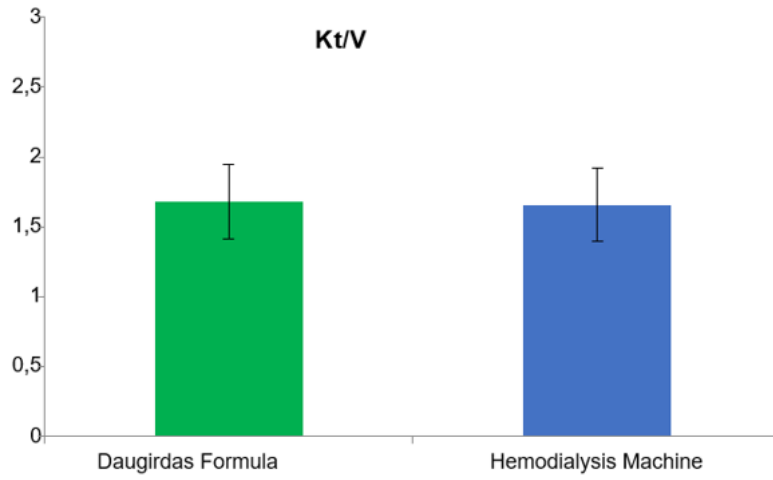


Figure 1: The Difference Between Kt/V Calculation Daugirdas Formula and Kt/V Hemodialysis Machine