

REFERENCES

- Furlani, E.P. 2007. *Continuous magnetophoretic separation of blood cells from plasma at the microscale*. Journal of Applied Physics 40 (5): 1313.
- Graham, M.D. 1981. *Efficiency comparison of two preparative mechanisms for magnetic separation of erythrocytes from whole blood*. Journal of Applied Physics 52 (3): 2578-2580.
- Hootkins, R. 1994. *Optimal dialysis duration*. Seminars in Dialysis 7 (4): 246-250.
- Husdan, H., and A. Rapoporf. 1968. *Estimation of creatinine by the Jaffe reaction: A comparison of three methods*. Clinical Chemistry 14 (3): 222-238.
- Isildak, I., O. Cubuk, M. Altikatoglu, M. Yolcu, V. Erci, and N. Tinkilic. 2012. *A novel conductometric creatinine biosensor based on solid-state contact ammonium sensitive PVC-NH₂ membrane*. Biochemical Engineering Journal 62: 34–38.
- Junge, W., B. Wilke, A. Halabi, and G. Klein. 2004. *Determination of reference intervals for serum creatinine, creatinine excretion and creatinine clearance with an enzymatic and a modified Jaffe' method*. Clinica Chimica Acta 344: 137–148.
- Kohei, N., Y. Sawada, T. Hirai, K. Omoto, H. Ishida, and K. Tanabe. 2014. *Influence of dialysis duration on the outcome of living kidney transplantation*. Therapeutic Apheresis and Dialysis 18 (5): 481–488.
- Marshall, W. 2012. Creatinine (serum, plasma). Association for Clinical Biochemistry.
- Melville, D., F. Paul, and S. Roath. 1975. *High gradient magnetic separation of red cells from whole blood*. IEEE Transactions on Magnetics 11 (6): 1701-1704.
- Melville, D., F. Paul, and S. Roath. 1982. *Fractionation of blood components using high gradient magnetic separation*. IEEE Transactions on Magnetics 18 (6): 1680-1685.
- Mihardja, L., Delima , H.S.Ganz., L.Ghani and S,Soegondo.2009. *Prevalence and determinants of diabetes mellitus and impaired glucose tolerance in Indonesia (a part of basic health research/Riskesdas)*.Acta Medica Indonesia;41(4):169-74 .
- Nakashima, Y., S. Hata, and T. Yasuda. 2010. *Blood plasma separation and extraction from a minute amount of blood using dielectrophoretic and capillary forces*. Sensors and Actuators B 145: 561–569.

National Semiconductor. 2004. LM117/LM317A/LM317 3-Terminal Adjustable Regulator. www.national.com.

Nelson, D. L., and M.M. Cox. 2004. Lehninger Principles of Biochemistry, 4th Ed. W. H. Freeman, New York.

Pawlak, K., D. Pawlak, and M. Mysliwiec. 2007. *Impaired renal function and duration of dialysis therapy are associated with oxidative stress and proatherogenic cytokine levels in patients with end-stage renal disease*. Clinical Biochemistry 40: 81–85.

Premanode, B., and C. Toumazou. 2007. *A novel, low power biosensor for real time monitoring of creatinine and urea in peritoneal dialysis*. Sensors and Actuators B 120: 732–735.

Prodjosudjadi, W., and A. Suhardjono. 2009. *End-stage renal disease in Indonesia: treatment development*. Ethnicity and disease 19(1 Suppl 1):S1-33-6

Pundir, C.S., S. Yadav, and A. Kumar. 2013. *Creatinine sensors*. Trends in Analytical chemistry 50: 42–52.

Richards, A.J., O.S. Roath, R.J.S. Smith, and J. H. P. Watson. 1996. *The mechanisms of high gradient magnetic separation of human blood and bone marrow*. IEEE Transactions on Magnetics 32 (2): 459-470.

Schieppati, A. And G. Remuzzi. 2005. *Chronic renal diseases as a public health problem: epidemiology, social, and economic implications*. Kidney International (98):S7-S10.

Schwartz, G.J., G.B. Haycock, and A. Spitzer. 1976. *Plasma creatinine and urea concentration in children: normal values for age and sex*. Journal of Pediatrics 88 (5): 828–830.

Statista. 2014. *Procedures in U.S. hospitals with the most rapid growth based on number of hospital stays in the period 1997-2010*. Statista.

Svoboda, J. 2000. *Separation of red blood cells by magnetic means*. Journal of Magnetism and Magnetic Materials 220: L103-L105.

Takai, I., S. Fukuhara, S. Nakai, T. Shinzato, and K. Maeda. 2002. *Effect of creatinine generation rate on the relationship between hemodialysis prescription and health-related quality of life*. Journal of Artificial Organs 5 (2): 123-131.

Vaishya, R., S. Arora, B. Singh, and V. Mallika. 2010. *Modification of Jaffe's kinetic method decreases bilirubin interference: A preliminary report*. Indian Journal of Clinical Biochemistry 25 (1): 64-66.

Webster, J.G. 2010. Medical Instrumentation Application and Design, 4th Ed. John Wiley & Sons, Inc. USA.

