Homeostatic imbalances

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Homeostasis is extremely important for proper functioning of all the human body systems. When our body is not able to regulate temperature all our body functions will fail to work. Even the enzymes need a specific constant temperature to work at their optimum level. At higher temperatures the enzymes will stop working. (Steadyheatlh, 2004) Dialysis is the artificial process of getting rid of waste (diffusion) and unwanted water from the blood. This process is naturally done by our kidneys. Some people, however, may have failed or damaged kidneys which cannot carry out the function properly, they may need dialysis. Ungar, 2012) Patients with renalfailureexperience a lot of imbalances while receiving dialysis. Electrolyte imbalances are the most common, usually presenting with hyperkalemia. This happens when the amount of calcium is more than the kidneys can excrete. Arrhythmias may also occur during dialysis. It too causes an imbalance of electrolytes or changes in acid-base homeostasis. Severe cramping, muscle spasms, and low blood pressure are some complications experienced from dialysis. This happens because of the removal of increased volume of fluids.

Net filtration pressure is damaged as a result of increased permeability of the membrane. This too causes a homeostatic imbalance. Urinary incontinence and retention, thrombosis, and sleeping problems may all occur from the use of dialysis. (Steadyheatlh, 2004) Other homeostatic imbalancehealthproblems like dehydration, hypertension, diabetes, hypoglycemia, hyperglycemia, can arise. Homeostasis is extremely important for proper functioning of all the human body systems. When our

body is not able to regulate temperature all our body functions will fail to work.

Even the enzymes need a specific constant temperature to work at their optimum level. At higher temperatures the enzymes will stop working. Eventually, it can cause death. Proper exercise, a well-balanced diet, and adequate rest can help to achieve homeostatic balance. (Ungar, 2012) REFERENCES Ungar, J. (2012, June 5). Kidney transplant: end-stage renal disease. Retrieved from http://www. emedicinehealth. com/kidney_transplant/article_em. htm Steadyheatlh, I. (2004, March 8). Complications of dialysis. Retrieved from http://ic. steadyhealth. com/complications_of_dialysis. html