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## Organ Donation: The Gift that Keeps on Giving

### **Abstract:**

Organ donation and transplantation have been around for several years and have changed dramatically in the process. From replacing wounded skin to transplanting a heart successfully, organ donation and transplantation is becoming more efficient and is used for a variety of organs. Technology and medicine have also made organ donation and transplantation easier and more proficient. Drugs like Cyclosporine and Viaspan have lowered rejection rates in patients and increased the preservation of donated organs (Donate Life, 2014).

Even though there been great successes in organ transplants, the amount of people on the transplant list is still in the 100,000. This research paper will investigate why the numbers are so high and if there is anything to do to fix it. The tests will compare time versus number of organ donors, transplants performed and amount of people on the waiting list, how long a person waits on the waiting list, and the amount of registered donors in the United States. For these experiments the linear regression correlation equation, confidence interval equation, and hypothesis test equation will be used.

After all of the calculations and graphs, it is shown that the number of people who need organ transplants will continue to rise. At this rate, the amount of donors will never reach the need of organs and the gap will continue to widen. In order to shrink the gap, more people need to be educated about organ donation and understand the need.