## **Project Title: Trend of Liver transplant etiology and outcome in the United States**

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1. Explain how the research involves no more than minimal risk to the subjects.

This study involves no more than minimal risk to the subjects as it is data analysis using already collected data. The data will not be altered in any way and only the PI and PI-Approved research personnel will have access to this data.

2. Explain how this wavier/modification will not adversely affect the rights or welfare of the subjects.

The data collected for research will be used for only research purpose. All the information collected will be limited for the subjects, which will not adversely affect the rights or welfare of the subjects.

3. Explain why this study cannot practicably be carried out without the waiver/modification of informed consent.

This study involves using data from Organ Procurement and Transplantation Network (OPTN) database. The information in this database is a nationwide transplant data. We have used de-identified data from the database and complied with the policy of OPTN. As such, we will not be contacting patient's to obtain any protected health information. Furthermore, given that these patients are no longer in the hospital it is not feasible to contact these patients to obtain consent.