2017 Performance Improvement Report

STRATEGIC PRIORITY

 1. Develop world-leading healthcare and research

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| **Project Name** |
| Increase the Percentage of Renal Transplants for Incompatible Renal Pairs (Related Recipient and Donor) |
| **Site** | **Department** |
| Jeddah | DPLM/ Immunopathology Section (HLA) |
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| **Project Status** | **Project Start Date** | **Project End Date**  |
| Completed | 01-01-2017 | 08-31-2017 |

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| **Problem:** Why the project was needed?Inability to transplant kidney for renal failure patients from their related donors, about 65 pairs were not transplanted due to Human Leukocyte Antigen (HLA) incompatibility. | **Aims:** What will the project achieve?Increase the percentage of renal transplants for incompatible renal (related recipient & donors). |
| **Benefits/Impact:** What is the improvement outcome?*(check all that apply)*[x]  Contained or reduced costs[x]  Improved productivity[ ]  Improved work process[x]  Improved cycle time[x]  Increased customer satisfaction[ ]  Other (please explain) Click or tap here to enter text. | **Quality Domain:** Which of the domains of healthcare quality does this project support?*(Select only one)***Patient Centred** |

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| **Measures:** Performance metrics to be evaluated | **Targets:** Expected outcomes |
| The percentage of renal transplants for incompatible renal (related recipient & donors). | Increase the percentage of renal transplants for incompatible renal (related recipient & donors) from zero % to 10% by 31st December 2017 |

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| **Interventions:** Overview of key steps/work completed* A registry created in-house for 35 donors and their incompatible related recipients
* In-house Excel program has been built by Human Leukocyte Antigen (HLA) Lab to enable technologist to identify Red Blood Cell Group (ABO) compatible and HLA match between registered pairs
* This program reducing mismatches antigen that in turn help to decrease the chance of having HLA incompatibility with donor.
* Renal transplant team has sought the HITA support to obtain an electronic program that facilitates auto select the pairs. This program reduce labor hands on by handling the large amount of data analysis
* The electronic program validated for the accuracy of matching the pairs and has been approved by the team.
* 85 recipients and donors HLA typing and informations have been entered into the program that include:
* Multiple pathways for pairs:
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| 1. The first analysis presented 18 pairs (9 pair exchange) through the two ways pair exchange.
2. HLA lab presented these identified pairs and communicated to the transplant team.
3. By July 2017 there was ten pairs (5 pair exchange) have been transplanted successfully.
4. Expected by the end of 2017 more cases will be transplanted through this pair exchange program.
5. Program Challenges: after HLA work, 2 pairs have been excluded (suspended) for personal reasons (related donors withdraw).

**Results:** Insert relevant graphs and charts to illustrate improvement pre and post project*(insert relevant graphs, data, charts, etc.)*This 10 cases transplanted represent 15.3% of renal failure patients with HLA incompatible related donors. |

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| **Project Lead** | **Team Members** |
| **Name** *(person accountable for project)* | **Names***(persons involved in project)* |
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