New York State
Living Liver Donor
Data Deliverables

A Report to:
New York State Department of Health
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Living Liver Donor Data Deliverables

Living liver donation has received increasing attention in New York State and across the nation in recent years, particularly as the number of patients on the waiting list has risen and people look to living donation as a means to save lives. As family and friends have elected to undergo the procedure to donate a portion of their liver to a loved one, it has become clear that the donation surgery is not without risks and tracking the health of the donor after donation is critical to better inform anyone who may consider taking this step.

In February 2004, new requirements for living liver donation were adopted in New York (NYCRR Section 405.22) whereby the New York State Department of Health (DOH) requires liver transplant programs to track living liver donors and report characteristics, outcomes and follow-up data. Under the auspices of the New York Center for Liver Transplantation's (Center) contract with DOH, the United Network for Organ Sharing (UNOS) has released center-specific living donor and recipient registration and follow-up data to the Center.

The following data were compiled using data and file layouts from UNOS and from center-reported updates. Data are reported for the period ***January 2013-December 2013*** for the purposes of fulfilling DOH contract requirements for the current contractual period and to ensure that all data reported have been validated within the 90-day validation period under the UNOS system.

The donor registration file shows 312 liver transplant procedures were performed in New York State between January 1, 2013 and December 31, 2013. The majority (89.7%) of the operations were performed using the livers of deceased donors, while the remaining 10.3% were transplants using livers from living donors. A total of 26 adult-to-adult living liver transplants were done in this time period and are reported in the following tables.

Living Liver Donor Data Variables

Demographics

Table 1: Gender Distribution of Living Donors, Jan – Dec 2013

Gender	Transplant Center						**Total**
	ROCH	**NYMA**	**MSSM**	**NYPC**	**NYU**	**WCMC**	
Male	0	0	6	6	3	0	15
Female	0	0	3	5	3	0	11
Total	0	0	9	11	6	0	26

Table 2: Age Distribution of Living Donors, Jan – Dec 2013

Transplant Center	N	Mean	Minimum	Maximum
NYPC	**11**	39.0	22	56
NYMA	**0**	N/A	N/A	N/A
ROCH	**0**	N/A	N/A	N/A
MSSM	**9**	37.9	25	54
NYU	**6**	41.5	32	53
WCMC	**0**	N/A	N/A	N/A

Table 3: Race/Ethnicity of Living Donors, Jan – Dec 2013

Race	Transplant Center						Total
	ROCH	**NYMA**	**MSSM**	**NYPC**	**NYU**	**WCMC**	
White	0	0	3	11	3	0	17
Asian	0	0	1	0	1	0	2
Black	0	0	1	0	0	0	1
Hispanic	0	0	2	0	2	0	4
Arab or Middle Eastern	0	0	2	0	0	0	2
Total	0	0	9	11	6	0	26

Table 4: Relationship of the Living Donor to Recipient, Jan – Dec 2013

Relationship to Recipient		**Transplant Center**					**Total**
	ROCH	**NYMA**	**MSSM**	**NYPC**	**NYU**	**WCMC**	
Biological:							
Son/Daughter	0	0	4	6	2	0	12
Full Sibling	0	0	3	1	0	0	4
Niece/Nephew	0	0	1	0	0	0	1
Aunt	0	0	0	1	0	0	1
Cousin	0	0	0	0	1	0	1
Non-Biological:							
Spouse/Fiancee	0	0	0	2	3	0	5
Friend	0	0	1	1	0	0	2
Total	0	0	9	11	6	0	26

Complications within 30 Days of Donation

Table 5: Readmissions of Living Donors within 30 Days of Donation, Jan – Dec 2013

Readmission	Transplant Center						Total
	ROCH	**NYMA**	**MSSM**	**NYPC**	**NYU**	**WCMC**	
Not Readmitted	0	0	9	11	6	0	26
Readmitted	0	0	0	0	0	0	0
Total	0	0	9	11	6	0	26

There were no reported complications or readmissions for the living donors within 30 days.

Complications at 6-Month Follow-up

Data gathered six months post-donation reveal no known deaths or complications resulting in liver failure. Nor were any living liver donors added to the UNOS transplant list as candidates for liver transplantation. One donor at New York Presbyterian Columbia transplant center

was reported to have complication due to bile leak within 6 months of follow-up time period for grade 2 interventional procedure. Two recipients were readmitted to Mount Sinai Medical Center for a large epigastric hernia repair and nephrolithiasis.

Living Liver Recipient Data Variables

Demographics

Table 6: Gender Distribution of Living Liver Recipients, Jan – Dec 2013

Gender	Transplant Center						**Total**
	ROCH	**NYMA**	**MSSM**	**NYPC**	**NYU**	**WCMC**	
Male	0	0	6	6	3	0	15
Female	0	0	3	5	3	0	11
Total	0	0	9	11	6	0	26

Table 7: Age Distribution of Living Liver Recipients, Jan – Dec 2013

Transplant Center	**N**	**Mean**	**Minimum**	**Maximum**
NYPC	11	61.8	43	76
NYMA	0	N/A	N/A	N/A
ROCH	0	N/A	N/A	N/A
MSSM	9	57.7	42	69
NYU	6	52.2	40	65
WCMC	0	N/A	N/A	N/A

Table 8: Race/Ethnicity of Living Liver Recipients, Jan– Dec 2013

Race	Transplant Center						Total
	ROCH	**NYMA**	**MSSM**	**NYPC**	**NYU**	**WCMC**	
White	0	0	4	10	3	0	17
Asian	0	0	1	0	1	0	2
Hispanic/Latino	0	0	2	1	2	0	5
Black	0	0	0	0	0	0	0
Arab or Middle Eastern	0	0	2	0	0	0	2
Total	0	0	9	11	6	0	26

Table 9: MELD Score at Waitlist Removal of Living Liver Recipients, Jan – Dec 2013

Transplant Center	N	Mean
NYPC	11	14.45
NYMA	0	N/A
ROCH	0	N/A
MSSM	9	15.44
NYU	6	12.17
WCMC	0	N/A

MELD_lab_score values reported

Table 10: Diagnoses of Living Liver Recipients, Jan – Dec 2013

Diagnosis	Transplant Center						**Total**
	ROCH	**NYMA**	**MSSM**	**NYPC**	**NYU**	**WCMC**	
Cirrhosis: Type C	0	0	2	7	0	0	9
PLM: Hepatoma Hepatocellular Carcinoma	0	0	1	1	0	0	2
PLM: Hepatoma Hepatocellular Carcinoma and Cirrhosis	0	0	0	0	1	0	1
PLM: Cholangiocarcinoma CH CA	0	0	0	0	1	0	1
Alcoholic Cirrhosis	0	0	0	1	0	0	1
Cirrhosis Fatty Liver Nash	0	0	3	0	2	0	5
Cirrhosis: Autoimmune	0	0	1	0	1	0	2
Primary Biliary Cirrhosis	0	0	0	1	0	0	1
Primary Biliary Cirrhosis with Autoimmune Chronic Hepatitis	0	0	0	1	0	0	1
Primary Sclerosing Cholangitis Ulcerative Colitis	0	0	1	0	0	0	1
Primary Sclerosing Cholangitis No Bowel Disease	0	0	0	0	1	0	1
Polycythemia Vera	0	0	1	0	0	0	1
Total	0	0	9	11	6	0	26

Status within 30 Days of Transplant

Table 11: Status of Living Liver Recipients within 30 Days of Transplant, Jan – Dec 2013

	Transplant Center						
	ROCH	**NYMA**	**MSSM**	**NYPC**	**NYU**	**WCMC**	**Total**
Alive	0	0	9	11	6	0	26
Deceased	0	0	0	0	0	0	0
Retransplanted	0	0	0	0	0	0	0
Total	0	0	9	11	6	0	26

Status at 6-month Follow-up

A review of the available data for recipient status at 6 months post-transplant indicates that there were two recipient deaths due to a generalized sepsis at Mount Sinai Medical Center and New York Presbyterian Columbia, and one due to graft failure and infection at Mount Sinai Medical Center. There were no retransplants within 6 months reported in 2013.

Summary

Unique measures, designed to protect and inform potential living liver donors, have been implemented by New York's liver transplant programs and the New York State Department of Health. Since the implementation of these measures, the data shows a decreasing trend in *adult-to-adult* living liver donation in New York State of nearly 40% since 2005. It is also important to note donors experience complications post-donation and this information should be shared with individuals considering the option of living liver donation. This is the eighth annual report of its kind and has served its aim of better understanding the risks and complications associated with living liver donation.