

## 2022 Summary of Non-U. S. Resident Transplant Activity

### OPTN Ad Hoc International Relations Committee

The OPTN Ad Hoc International Relations Committee is charged with reviewing all citizenship data reported to the OPTN. Citizenship information is provided by transplant center and organ procurement organization staff filling out the data collection forms in UNet<sup>sm</sup>. *OPTN Policy 17.1: Report of Activities Related to the Transplantation of Non-U.S. Citizens/Non-U.S. Residents* states that the Committee “will prepare and provide public access to an annual report of transplant hospital activities related to the registration and transplantation of non-U.S. citizens/non-U.S. residents.” The current report is the Committee’s eight fulfillment of this policy requirement.

Below is a high-level summary of the 2022 Annual Report. To obtain a copy of the full report, please submit a data request by completing the online request form at <https://optn.transplant.hrsa.gov/data/request-data/>.

#### Methods

OPTN data was used to calculate summary statistics for waiting list registrations, transplant recipients, and deceased and living donors who do not reside in the U.S. All candidate and recipient citizenship information is based on data provided by the transplant centers on the Transplant Candidate Registration (TCR) form at the time of listing on the waiting list.

This report examines the state of non-U.S. Citizen/Non-U.S. Resident (NCNR) registrations and transplants overall. The data is presented by organ, region, age group (pediatric vs. adult), and transplant candidate registration (TCR) citizenship. Most of the report focuses on 2022 alone or 2022 vs. 2021; some figures and tables go back through 2019. Since this report focuses on candidate and recipient citizenship, data with missing or not reported citizenship are removed from the analysis. The complete methods can be found in the full report. All analyses are based on OPTN data as of April 10, 2023.

#### Summary of Results

During 2022, a total of 68,099 adult and pediatric registrations were added to the U.S. solid organ transplant waiting list. Of those, 998 (1.5%) were indicated to be NCNR candidates including 225 (0.3%) registrations for candidates in the U.S. specifically for the purpose of transplantation.

The percentage of NCNR registrations added in 2022 varies by organ, from 0.6% (9) of kidney-pancreas registrations to 2.1% (3) of intestine registrations. The 723 kidney and 149 liver NCNR additions represent 1.6% and 1.1% of their total registrations, respectively. While 1.4% of adult registrations were non-U.S. residents, 2.5% of pediatric waiting list registrations were for this group of patients.

Approximately 54% (135) of the 250 transplant hospitals with at least 1 registration added to the waitlist in 2022 (all organs) had no registrations added where the candidate citizenship was reported as a non-U.S. resident. Of the 250 centers, 20.8% (52) listed 5 or more NCNR registrations.

During 2022, a total of 36,415 adult and pediatric deceased donor transplants were performed. Of those, 533 (1.5%) were indicated to be for recipients not residing in the U.S., including 125 (0.3%) for

recipients in the U.S. specifically for the purpose of transplantation. Also, of these 533 NCNR deceased donor transplants, 4 were listed as non-resident aliens (NCNR candidates listed prior to March 2012). The percentage of NCNR deceased donor transplants in 2022 varies by organ, from 0% (0) heart-lung deceased donor transplants to 1.8% (347) of kidney deceased donor transplants. The 347 kidney and 92 liver deceased donor transplants represent 1.8% and 1.0% of their totals, respectively.

Approximately 58.8% (147) of all hospitals (all organs) had no deceased donor transplants during 2022 here the candidate citizenship was reported as non-U.S. resident.

Additionally, in 2022 there were 6,466 living donor transplants. Of these, 1.3% (84) were for NCNR recipients. 1.3% (75) of all living donor kidney recipients were NCNR, and of those, 34 were in the U.S. specifically for transplant. 1.5% of all living donor liver transplants were NCNR; of those, 8 were in the U.S. specifically for a transplant.