

Geographic Differences in HIV+ Kidney Transplant Waitlist Characteristics

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Introduction

- Excellent outcomes have been reported among HIV+ kidney transplant (KT) recipients
- OPTN currently does not collect HIV-status at time of listing
- Previous studies have shown that rurality is associated with decreased access to KT
- No study has examined the geographic differences in HIV+ candidates

Methods

- **Study population** Adult HIV+ KT listings between 1/1/2001 and 10/1/2012 (obtained from SRTR, n=1000)
- Rurality based on Rural Urban Commuting Area zip codes as defined by the US census
- Analysis Design
 - IMS pharmacy fills (01/01/2001-10/01/2012)
 were linked with SRTR data
 - Candidates with ≥ 1 antiretroviral fill unique to HIV treatment prior to or while on kidney waitlist were identified
 - 94% of candidates had >1 HIV+ medication fill, and simultaneous listings were collapsed
 - Geographic differences in descriptive characteristics were compared across UNOS defined regions and in rural vs. urban settings

326 (32.6%) 41,793 (46.1%) 26 (2.6%) 15,650 (17.3%) 777 (77.7%) 53,725 (59.3%) 223 (22.3%) 36,865 (40.7%) 192 (19.2%) 49,062 (54.2%) 715 (71.5%) 22,648 (25.0%) 93 (9.3%) use of kidney disease 144 (14.4%) 29,604 (32.7%) 20,245 (22.4%) 99 (9.9%) 16,159 (17.8%) 24,582 (27.1%) 431 (43.1%) alysis Status at listing 22,343 (24.7%) 68,247 (75.3%) 925 (92.5%) 6135 (6.8%) 106 (10.6%) 11,557 (12.8%) 133 (13.3%) 3380 (3.7%) illing to accept HCV+ kidney ood group type 31,583 (34.9%) 3,823 (4.2%) 175 (17.5%) 12,698 (14.0%) 42,486 (46.9%) 226 (22.6%) 39,066 (43.1%) 26 (2.6%) 4,677 (5.2%) 48 (4.8%) 3,151 (3.5%) 333 (33.3%) 14,054 (15.5%) 95 (9.5%) 10,205 (11.3%) 7,035 (7.8%) 16,133 (17.8%) 3,531 (3.9%) 9,401 (10.4%) 62 (6.2%) 19 (1.9%) 4,847 (5.4%) 101 (10.1%) 6,629 (7.3%) 74 (7.4%) 7,636 (8.4%)

- 64.8% of HIV+ KT waitlist candidates are under the age of 50 whereas only 37.6% of the HIVuninfected population is under the age of 50 (p<0.0001) (Table)
- 71.5% African-American while only 25.0% of the HIV-negative waitlist is African-American (p<0.0001) (Table)
- Only 7.5% of HIV-infected candidates are preemptively listed in contrast to 24.7% of HIVnegative KT candidates (p<0.0001) (Table)

Results

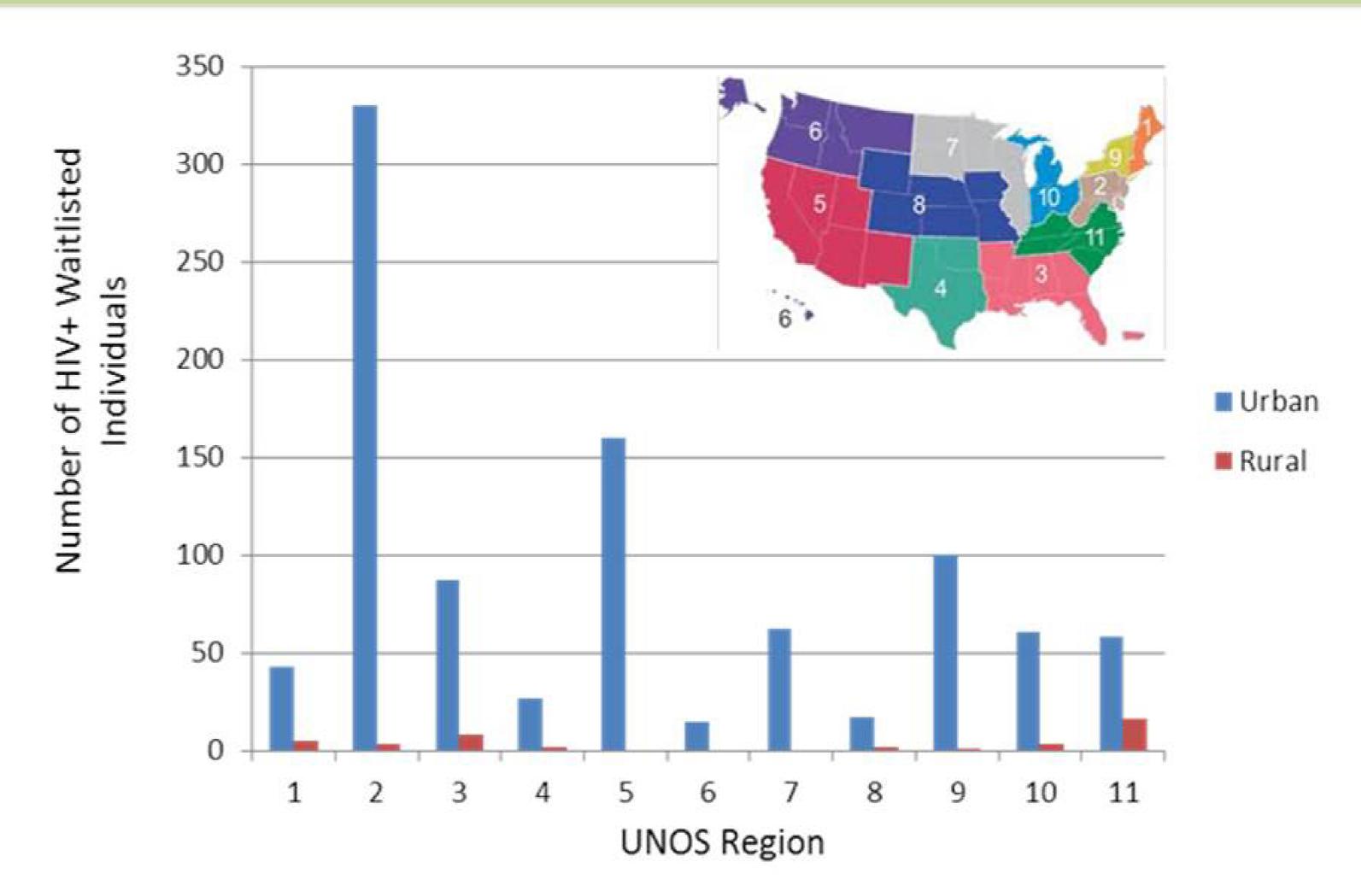


Figure 1. Percent of waitlist by region and residence

- The majority of waitlisted candidates are from an urban environment (Figure)
- Three regions have never listed an HIV+ transplant candidate from a rural setting (Figure)

Conclusion

- All eleven UNOS regions have listed at least one HIV+ candidate for KT, yet three regions have never listed an HIV+ KT candidate from a rural setting
- These findings suggest that geographic disparities in access to KT may exist among rural HIV+ ESRD patients

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