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SDI Associated With Access to Kidney Transplant

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Purpose

- Social determinants of health, including socioeconomic status and neighborhood characteristics, play a significant role in shaping health care access and outcomes.
- The Social Deprivation Index (SDI) is a composite measure reflecting the socioeconomic disadvantages of a community using US Census Bureau data on years of schooling, crowding, vehicle ownership, income, renter status, and single parent status.
- We assessed the association between SDI and time to transplant, accounting for insurance status and cause of end-stage kidney disease (ESKD).

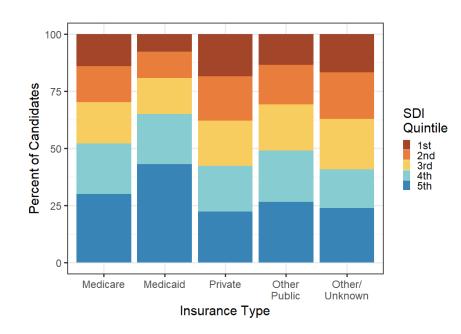
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Methods

- Analysis cohort = 247,297 adult kidney transplant candidates on waiting list 2020-2024 (SRTR data)
- SDI calculated and merged by candidate zip code
 - Higher SDI quintiles reflect higher levels of social deprivation
- Candidates listed concurrently at multiple centers had listings combined
- Cox proportional hazards models performed to test SDI quintile with time to deceased or living donor transplant from listing adjusting for: insurance type, ESKD cause, age group, calculated panel-reactive antibody (cPRA) value at listing, and dialysis time at listing

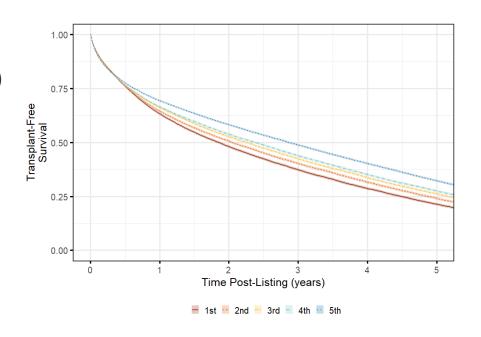
Results: SDI Associated With Insurance Type

SDI is highly associated with insurance type.



Results: SDI Associated With Time to Transplant

- HR (95% CI) relative to 1st SDI quintile (least deprivation):
 - 2nd SDI quintile: 0.92 (0.90 0.94)
 - 3rd SDI quintile: 0.87 (0.85 0.89)
 - 4th SDI quintile: 0.82 (0.81 0.84)
 - 5th SDI quintile: 0.73 (0.72 0.75)
- Insignificant interaction between SDI quintile and insurance type
- Future direction: Subset analysis censoring living donor transplants





Transplantation

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