

Survival Advantages of Hispanic Ethnicity in Maintenance Hemodialysis Patients: Hispanic Paradox within Paradox?

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Background

- Despite the survival advantages of Hispanics in the face of lower socioeconomic status (**Hispanic Paradox**), chronic kidney disease (CKD) and faster CKD progression to dialysis dependency is more common in Hispanics than non-Hispanic Whites (Dialysis Hispanic Paradox within Paradox).
- We hypothesized that survival advantage of Hispanic maintenance hemodialysis (MHD) patients (pts) can be explained by better nutritional status.

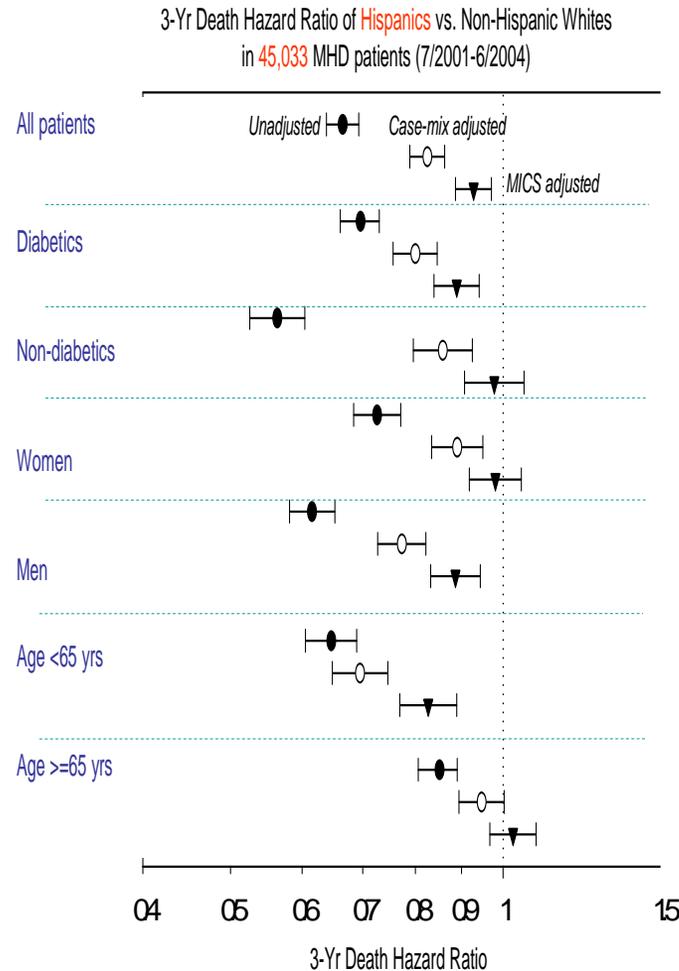
Methods

- We compared the 3-yr (7/01-6/04) mortality in 12,086 Hispanic and 32,947 non-Hispanic Caucasian MHD pts in all DaVita clinics.

- Hispanic and non-Hispanic Caucasian MHD were 60.8+/-15.5 and 64.7+/-15.2 yrs old and included 46% and 42% women, 45% and 42% diabetics, and 29% and 30% incident (vintage<6 mo) pts, respectively.
- In unadjusted, case-mix (demographics, comorbidity and Kt/V) adjusted and malnutrition-inflammation complex syndrome (MICS, including nPNA, BMI, EPO dose, serum albumin, creatinine, phos, ferritin, TIBC, hemoglobin, WBC, lymphocyte%) adjusted models, the death hazard ratio (and 95% CI, p-value) of Hispanics vs. non-Hispanic Whites was 0.67 (0.64-0.69, <0.001), 0.83 (0.79-0.86, <0.001), and 0.93 (0.87-0.97, 0.001), respectively.
- In subgroup analyses, diabetic, male and younger (<65 yr old) Hispanic MHD pts had significantly better survival compared to their non-Hispanic counterparts;

- no group was identified where Hispanics had greater death risk than non-Hispanic Whites

Results



Conclusions

- Despite higher incidence and faster progression of CKD among Hispanics, there is a robust survival advantage among Hispanic MHD pts that cannot be explained by the nutritional status.
- In subgroup analyses, diabetic, male and younger (<65 yr old) Hispanic MHD pts had significantly better survival compared to their non-Hispanic counterparts.
- No group was identified where Hispanics had greater death risk than non-Hispanic Whites

Acknowledgements

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