47 Effect of African-American race on cancer specific mortality differs according to clear-cell vs. non-clear cell histologic subtype in metastatic renal cell carcinoma

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Marchioni M.¹, Harmouch S.², Bandini M.³, Preisser F.⁴, Nazzani S.⁵, Tian Z.², Bondarenko H.D.², Kapoor A.⁶, Cindolo L.⁷, Briganti A.⁸, Shariat S.F.⁹, Schips L.¹⁰, Karakiewicz P.I.²

¹Università Degli Studi "G.D'Annunzio", Dept. of Urology, Chieti, Italy, ²Cancer Prognostics and Health Outcomes Unit, University of Montreal Health Center, Dept. of Urology, Montreal, Canada, ³Division of Oncology/Unit of Urology, URI, IRCCS Ospedale San Raffaele; Vita-Salute San Raffaele University, Dept. of Urology, Milan, Italy, ⁴Martini-Klinik Prostate Cancer Center, University Hospital Hamburg-Eppendorf, Dept. of Urology, Hamburg, Germany, ⁵Academic Department of Urology, IRCCS Policlinico San Donato, University of Milan, Dept. of Urology, Milan, Italy, ⁶Division of Urology, McMaster University, Dept. of Urology, Hamilton, Canada, ⁷ASL Abruzzo 2, Dept. of Urology, Chieti, Italy, ⁸Division of Oncology/Unit of Urology, URI, IRCCS Ospedale San Raffaele, Milan, Italy, Dept. of Urology, Milan, Italy, ⁹Department of Urology, Medical University of Vienna, Dept. of Urology, Vienna, Austria, ¹⁰SS Annunziata Hospital, Dept. of Urology, Chieti, Italy

Introduction & Objectives: Potential effect of race defined, as African-American vs. Caucasian, was never examined in the setting of cancer specific mortality (CSM) in clear cell vs. non-clear cell metastatic renal cell carcinoma (ccmRCC vs. non-ccmRCC). To test the effect of African-American race on CSM in ccmRCC and non-ccmRCC.

Materials & Methods: Within Surveillance, Epidemiology and End Results registry (2001-2014), we identified patients with ccmRCC and nonccmRCC. We relied on propensity score (PS) matching to reduce the effect of inherent differences between African-American vs. Caucasian patients. After PS matching that included access to cytoreductive nephrectomy, cumulative incidence, competing-risks regression (CRR) models and landmark analyses tested the effect of race on CSM.

Results: Before PS matching, African-American patients accounted for 7.0 and 24.5% of respectively ccmRCC (N=6742) and non-ccmRCC patients (N=766). After PS matching, African-American patients accounted for 22.3 and 33.5% of respectively ccmRCC (N= 2050) and non-ccmRCC (N= 391) matched cohorts. In multivariable CRR models focusing on ccmRCC, higher CSM was recorded in African-Americans (HR:1.27, p<0.001). Conversely, in non-ccmRCC, lower CSM was recorded in African-Americans (HR:0.54, p<0.001). Landmark analyses rejected the hypothesis of immortal bias.

Demographic and pathological characteristics of patients with metastatic renal cell carcinoma after propensity-score matching stratified according to race								
Variables names No of patients (%)	Clear-Cell Metastatic Renal Cell Carcinoma After propensity-score matching				Non Clear-Cell Metastatic Renal Cell Carcinoma After propensity-score matching			
	Age group ≤ 65 > 65	1391 (67.9) 659 (32.1)	311 (68.1) 146 (31.9)	1080 (67.8) 513 (32.2)	1.0	261 (66.8) 130 (33.2)	92 (70.2) 39 (29.8)	169 (65) 91 (35)
Year at diagnosis 2001-2005 2006-2009 2010-2014	488 (23.8) 650 (31.7) 912 (44.5)	116 (25.4) 144 (31.5) 197 (43.1)	372 (23.4) 506 (31.8) 715 (44.9)	0.6	60 (15.3) 98 (25.1) 233 (59.6)	23 (17.6) 35 (26.7) 73 (55.7)	37 (14.2) 63 (24.2) 160 (61.5)	0.5
Gender Male Female	1431 (69.8) 619 (30.2)	309 (67.6) 148 (32.4)	1122 (70.4) 471 (29.6)	0.3	317 (81.1) 74 (18.9)	105 (80.2) 26 (19.8)	212 (81.5) 48 (18.5)	0.8
Marital status Married Never Married Previously Married Unknown	1045 (51) 483 (23.6) 465 (22.7) 57 (2.8)	214 (46.8) 119 (26) 109 (23.9) 15 (3.3)	831 (52.2) 364 (22.8) 356 (22.3) 42 (2.6)	0.2	243 (62.1) 62 (15.9) 80 (20.5) 6 (1.5)	74 (56.5) 26 (19.8) 28 (21.4) 3 (2.3)	169 (65.0) 36 (13.8) 52 (20.0) 3 (1.2)	0.3
T-stage T ₁₋₂ T ₃₋₄ T _{x-0}	640 (31.2) 889 (43.4) 521 (25.4)	146 (31.9) 194 (42.5) 117 (25.6)	494 (31) 695 (43.6) 404 (25.4)	0.9	160 (40.9) 164 (41.9) 67 (17.1)	57 (43.5) 49 (37.4) 25 (19.1)	103 (39.6) 115 (44.2) 42 (16.2)	0.4
Grade G ₁₋₂ G ₃₋₄ Unknown	406 (19.8) 797 (38.9) 847 (41.3)	95 (20.8) 173 (37.9) 189 (41.4)	311 (19.5) 624 (39.2) 658 (41.3)	0.8	67 (17.1) 161 (41.2) 163 (41.7)	27 (20.6) 49 (37.4) 55 (42.0)	40 (15.4) 112 (43.1) 108 (41.5)	0.4
Therapy No surgery Surgery	976 (47.6) 1074 (52.4)	224 (49) 233 (51)	752 (47.2) 841 (52.8)	0.5	129 (33) 262 (67)	45 (34.4) 86 (65.6)	84 (32.3) 176 (67.7)	0.8

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