

RENAL HEIR Analysis

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Table 1

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print(table_one, nonnormal = c("acr_u"), noSpaces = T)
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| | Stratified by group | |
|---------------------------------|---------------------|--------------------|
| | Lean Control | Obese Control |
| n | 20 | 21 |
| age (mean (SD)) | 16.63 (2.97) | 16.14 (2.11) |
| sex = Male (%) | 6 (30.0) | 15 (71.4) |
| race_ethnicity_condensed (%) | | |
| Hispanic or Latino | 6 (30.0) | 15 (71.4) |
| Not Hispanic or Latino Black | 1 (5.0) | 1 (4.8) |
| Not Hispanic or Latino Other | 2 (10.0) | 1 (4.8) |
| Not Hispanic or Latino White | 11 (55.0) | 4 (19.0) |
| weight (mean (SD)) | 62.15 (14.18) | 112.34 (23.19) |
| height (mean (SD)) | 165.37 (10.83) | 172.57 (10.84) |
| waistcm (mean (SD)) | 81.46 (9.84) | 120.38 (15.95) |
| hba1c (mean (SD)) | 5.22 (0.23) | 5.46 (0.28) |
| sbp (mean (SD)) | 118.00 (9.69) | 126.98 (6.60) |
| dbp (mean (SD)) | 69.78 (6.80) | 70.00 (6.32) |
| cholesterol (mean (SD)) | 145.50 (27.98) | 158.38 (22.34) |
| ldl (mean (SD)) | 91.85 (24.06) | 110.62 (22.01) |
| hdl (mean (SD)) | 46.40 (8.89) | 36.86 (6.62) |
| triglycerides (mean (SD)) | 88.10 (36.14) | 138.67 (56.60) |
| eGFR_CKD_epi (mean (SD)) | 129.13 (16.18) | 138.85 (10.00) |
| acr_u (median [IQR]) | 6.54 [4.30, 10.21] | 5.27 [3.39, 14.28] |
| insulin_med_timepoint = Yes (%) | 0 (0.0) | 0 (0.0) |
| sglti_timepoint = Yes (%) | 0 (0.0) | 0 (0.0) |
| | Stratified by group | |
| | Type 2 Diabetes | p test |

| | | |
|---------------------------------|---------------------|---------------|
| n | 49 | |
| age (mean (SD)) | 16.36 (2.06) | 0.791 |
| sex = Male (%) | 20 (40.8) | 0.018 |
| race_ethnicity_condensed (%) | | 0.001 |
| Hispanic or Latino | 37 (75.5) | |
| Not Hispanic or Latino Black | 7 (14.3) | |
| Not Hispanic or Latino Other | 1 (2.0) | |
| Not Hispanic or Latino White | 4 (8.2) | |
| weight (mean (SD)) | 104.00 (24.55) | <0.001 |
| height (mean (SD)) | 168.49 (8.03) | 0.052 |
| waistcm (mean (SD)) | 114.36 (15.52) | <0.001 |
| hba1c (mean (SD)) | 7.06 (1.82) | <0.001 |
| sbp (mean (SD)) | 124.00 (7.93) | 0.002 |
| dbp (mean (SD)) | 73.07 (8.15) | 0.138 |
| cholesterol (mean (SD)) | 161.58 (28.94) | 0.091 |
| ldl (mean (SD)) | 109.38 (25.20) | 0.017 |
| hdl (mean (SD)) | 38.02 (8.01) | <0.001 |
| triglycerides (mean (SD)) | 169.00 (76.11) | <0.001 |
| eGFR_CKD_epi (mean (SD)) | 137.60 (11.16) | 0.019 |
| acr_u (median [IQR]) | 10.02 [5.85, 57.92] | 0.009 nonnorm |
| insulin_med_timepoint = Yes (%) | 18 (36.7) | <0.001 |
| sglti_timepoint = Yes (%) | 13 (26.5) | 0.002 |

Table 2

```
print(table_two, noSpaces = T)
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| | Stratified by group | |
|-----------------------------------|---------------------|------------------|
| | Lean Control | Obese Control |
| n | 20 | 21 |
| dexa_lean_kg (mean (SD)) | 43.53 (10.49) | 62.16 (12.26) |
| dexa_fat_kg (mean (SD)) | 19.18 (6.72) | 50.47 (15.37) |
| dexa_body_fat (mean (SD)) | 30.40 (6.77) | 44.63 (6.94) |
| dexa_trunk_kg (mean (SD)) | 27.00 (7.76) | 53.19 (11.06) |
| fasting_ffa (mean (SD)) | NaN (NA) | 641.43 (147.63) |
| ffa_suppression (mean (SD)) | NaN (NA) | 92.01 (5.13) |
| steady_state_insulin (mean (SD)) | NaN (NA) | 1274.79 (586.63) |
| steady_state_cpeptide (mean (SD)) | NaN (NA) | 16.78 (4.48) |
| raw_m (mean (SD)) | NaN (NA) | 9.65 (3.25) |
| m_i (mean (SD)) | NaN (NA) | 0.01 (0.01) |

| | | |
|-----------------------------------|---------------------|-----------------|
| di (mean (SD)) | NaN (NA) | 4.52 (4.37) |
| airg (mean (SD)) | NaN (NA) | 545.99 (401.18) |
| | Stratified by group | |
| | Type 2 Diabetes | p test |
| n | 49 | |
| dexa_lean_kg (mean (SD)) | 56.30 (11.26) | <0.001 |
| dexa_fat_kg (mean (SD)) | 43.56 (14.97) | <0.001 |
| dexa_body_fat (mean (SD)) | 42.96 (6.68) | <0.001 |
| dexa_trunk_kg (mean (SD)) | 49.46 (13.22) | <0.001 |
| fasting_ffa (mean (SD)) | 707.46 (211.75) | 0.210 |
| ffa_suppression (mean (SD)) | 58.53 (30.75) | <0.001 |
| steady_state_insulin (mean (SD)) | 368.78 (467.31) | <0.001 |
| steady_state_cpeptide (mean (SD)) | 8.10 (4.57) | <0.001 |
| raw_m (mean (SD)) | 3.57 (2.67) | <0.001 |
| m_i (mean (SD)) | 0.02 (0.02) | 0.050 |
| di (mean (SD)) | 1.06 (1.91) | <0.001 |
| airg (mean (SD)) | 74.77 (141.41) | <0.001 |

Table 3

```
print(table_three, noSpaces = T)
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| | Stratified by group | |
|---------------------------------|---------------------|------------------|
| | Lean Control | Obese Control |
| n | 20 | 21 |
| gfr_raw_plasma (mean (SD)) | 136.34 (22.03) | 226.79 (57.90) |
| gfr_bsa_plasma (mean (SD)) | 139.07 (7.52) | 165.40 (36.71) |
| erpf_raw_plasma (mean (SD)) | 615.60 (59.94) | 914.34 (122.49) |
| erpf_bsa_plasma (mean (SD)) | 623.50 (91.91) | 686.17 (105.01) |
| ff (mean (SD)) | 0.23 (0.03) | 0.22 (0.04) |
| glomerular_pressure (mean (SD)) | 56.31 (4.49) | 64.84 (5.03) |
| ra (mean (SD)) | 2297.87 (397.31) | 1142.85 (485.15) |
| re (mean (SD)) | 1170.48 (235.81) | 1100.56 (226.20) |
| rvr (mean (SD)) | 0.08 (0.01) | 0.05 (0.01) |
| pcasl3d_left (mean (SD)) | 192.15 (52.37) | 190.36 (40.48) |
| pcasl3d_right (mean (SD)) | 201.66 (56.21) | 199.55 (47.28) |
| adc_left (mean (SD)) | NaN (NA) | NaN (NA) |
| adc_right (mean (SD)) | NaN (NA) | NaN (NA) |
| bold_l_bl_cortex (mean (SD)) | 22.21 (2.56) | 19.05 (1.96) |
| bold_r_bl_cortex (mean (SD)) | 20.37 (2.44) | 18.78 (2.62) |

| | | |
|-------------------------------|--------------|--------------|
| bold_l_pf_cortex (mean (SD)) | 20.13 (3.43) | 17.18 (1.36) |
| bold_r_pf_cortex (mean (SD)) | 18.84 (2.30) | 17.00 (1.58) |
| bold_l_bl_medulla (mean (SD)) | 29.26 (3.41) | 24.98 (3.16) |
| bold_r_bl_medulla (mean (SD)) | 26.63 (3.15) | 24.22 (2.86) |
| bold_l_pf_medulla (mean (SD)) | 22.92 (3.02) | 21.30 (1.68) |
| bold_r_pf_medulla (mean (SD)) | 21.05 (2.75) | 20.34 (1.88) |
| bold_l_bl_kidney (mean (SD)) | 24.62 (2.21) | 21.05 (2.12) |
| bold_r_bl_kidney (mean (SD)) | 22.57 (2.43) | 20.58 (2.51) |
| bold_l_pf_kidney (mean (SD)) | 21.47 (1.92) | 18.74 (1.16) |
| bold_r_pf_kidney (mean (SD)) | 19.66 (2.04) | 18.04 (1.32) |
| fsoc_l_medulla (mean (SD)) | 6.25 (2.50) | 3.44 (2.27) |
| fsoc_l_medulla (mean (SD)) | 6.25 (2.50) | 3.44 (2.27) |
| fsoc_r_medulla (mean (SD)) | 5.31 (2.15) | 3.44 (2.14) |
| fsoc_r_medulla (mean (SD)) | 5.31 (2.15) | 3.44 (2.14) |
| fsoc_l_medulla (mean (SD)) | 6.25 (2.50) | 3.44 (2.27) |
| fsoc_l_medulla (mean (SD)) | 6.25 (2.50) | 3.44 (2.27) |
| fsoc_r_medulla (mean (SD)) | 5.31 (2.15) | 3.44 (2.14) |
| fsoc_r_medulla (mean (SD)) | 5.31 (2.15) | 3.44 (2.14) |

Stratified by group

| | Type 2 Diabetes | p | test |
|---------------------------------|------------------|--------|------|
| n | 49 | | |
| gfr_raw_plasma (mean (SD)) | 207.14 (67.22) | <0.001 | |
| gfr_bsa_plasma (mean (SD)) | 162.96 (44.80) | 0.039 | |
| erpf_raw_plasma (mean (SD)) | 847.37 (178.26) | <0.001 | |
| erpf_bsa_plasma (mean (SD)) | 660.45 (110.46) | 0.261 | |
| ff (mean (SD)) | 0.24 (0.07) | 0.594 | |
| glomerular_pressure (mean (SD)) | 77.77 (11.50) | <0.001 | |
| ra (mean (SD)) | 903.20 (532.07) | <0.001 | |
| re (mean (SD)) | 2141.09 (708.09) | <0.001 | |
| rvr (mean (SD)) | 0.07 (0.01) | <0.001 | |
| pcasl3d_left (mean (SD)) | 205.87 (46.36) | 0.441 | |
| pcasl3d_right (mean (SD)) | 220.98 (45.22) | 0.208 | |
| adc_left (mean (SD)) | 1584.08 (204.95) | NA | |
| adc_right (mean (SD)) | 1514.44 (167.80) | NA | |
| bold_l_bl_cortex (mean (SD)) | 18.18 (1.32) | <0.001 | |
| bold_r_bl_cortex (mean (SD)) | 17.75 (2.13) | <0.001 | |
| bold_l_pf_cortex (mean (SD)) | 16.57 (1.53) | <0.001 | |
| bold_r_pf_cortex (mean (SD)) | 16.03 (1.62) | <0.001 | |
| bold_l_bl_medulla (mean (SD)) | 24.86 (3.10) | <0.001 | |
| bold_r_bl_medulla (mean (SD)) | 24.20 (3.02) | 0.011 | |
| bold_l_pf_medulla (mean (SD)) | 19.49 (3.09) | <0.001 | |
| bold_r_pf_medulla (mean (SD)) | 18.84 (2.41) | 0.003 | |
| bold_l_bl_kidney (mean (SD)) | 20.41 (1.52) | <0.001 | |

| | | |
|------------------------------|--------------|--------|
| bold_r_bl_kidney (mean (SD)) | 19.93 (2.04) | <0.001 |
| bold_l_pf_kidney (mean (SD)) | 17.77 (1.60) | <0.001 |
| bold_r_pf_kidney (mean (SD)) | 17.12 (1.66) | <0.001 |
| fsoc_l_medulla (mean (SD)) | 5.37 (3.45) | 0.018 |
| fsoc_l_medulla (mean (SD)) | 5.37 (3.45) | 0.018 |
| fsoc_r_medulla (mean (SD)) | 5.11 (2.54) | 0.028 |
| fsoc_r_medulla (mean (SD)) | 5.11 (2.54) | 0.028 |
| fsoc_l_medulla (mean (SD)) | 5.37 (3.45) | 0.018 |
| fsoc_l_medulla (mean (SD)) | 5.37 (3.45) | 0.018 |
| fsoc_r_medulla (mean (SD)) | 5.11 (2.54) | 0.028 |
| fsoc_r_medulla (mean (SD)) | 5.11 (2.54) | 0.028 |