

# SUPPLEMENTARY DATA

## Using Reticulocyte Hemoglobin Equivalent (RET-He) as a marker for iron deficiency and responsiveness to iron therapy.

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**SUPPLEMENTAL TABLE 1:  
Baseline study participants demographic and laboratory data**

<b>Variable</b>	<b>Median (IQR) [range] or n (%)</b>
<b>N</b>	556
<b>Age (years)</b>	66 (46, 76) [16, 97]
<b>Gender</b>	
<b>Female</b>	409 (74%)
<b>Male</b>	147 (26%)
<b>IV Iron therapy needed</b>	150 (27%)
<b>ESA therapy treatment</b>	37 (7%)
<b>Hemoglobin (g/dL)</b>	12.1 (10.9, 13.4) [5, 17.3]
<b>MCV (fL)</b>	90 (86, 94.3) [62.4, 120.1]
<b>MCH (pg)</b>	29.6 (27.8, 31.1) [18.2, 40.7]
<b>Reticulocyte (%)</b>	1.49 (1.15, 1.9) [0.15, 10.99]
<b>Reticulocyte (absolute, x 10<sup>9</sup>/L)</b>	0.06 (0.05, 0.08) [0.005, 0.383]
<b>RET-He (pg)</b>	31 (28.6, 33.1) [12.1, 40.3]
<b>MCH - RET-He (pg)</b>	-1.4 (-2.6, 0.1) [-11.7, 12.7]
<b>Ferritin (ng/mL)</b>	112 (43, 245) [2, 2930]
<b>Iron (µg/dL)</b>	66 (47, 89) [10, 198]
<b>TIBC (µg/dL)</b>	303 (265, 345) [48, 592]
<b>TSAT (%)</b>	23 (16, 31) [2, 86]

### SUPPLEMENTAL FIGURE 1

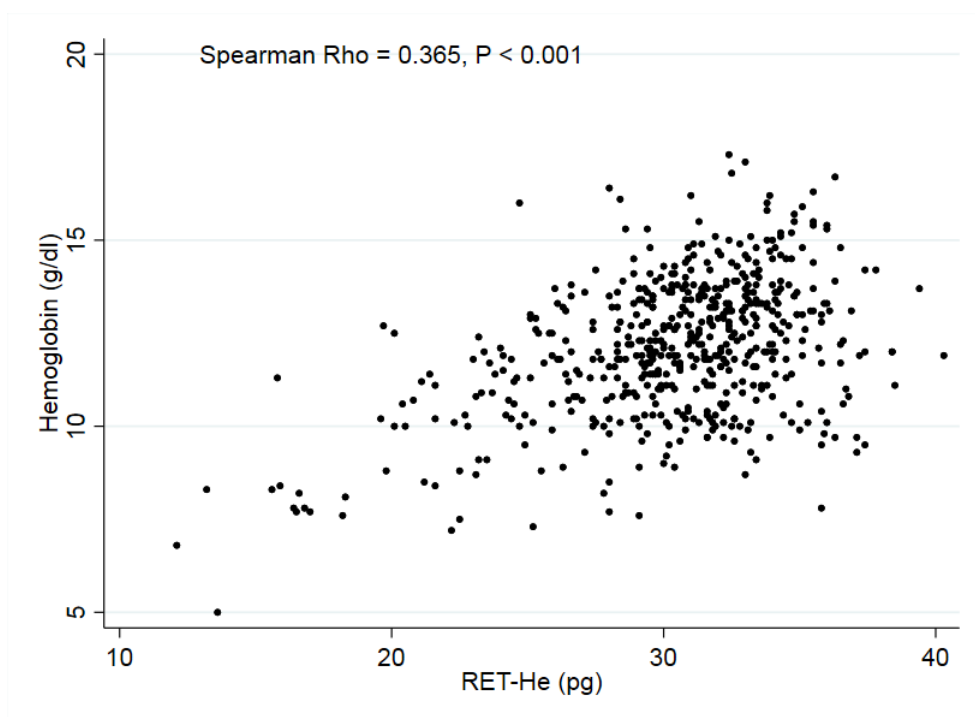
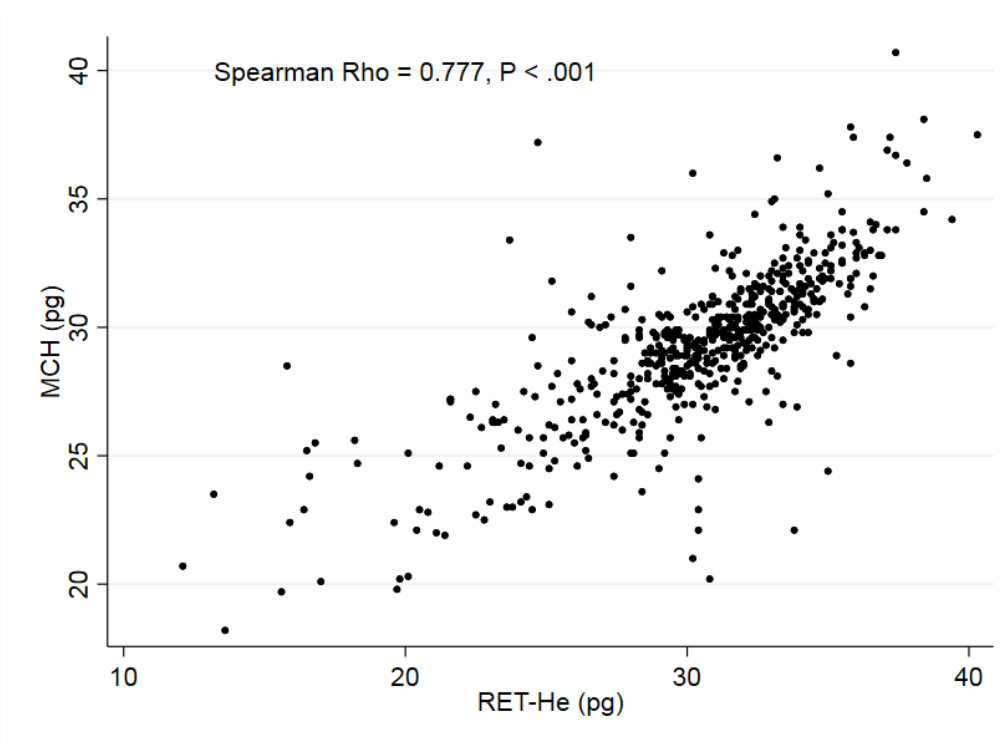


Figure 1S.

Top: Plot of baseline Ret-He vs. MCH. Bottom: Plot of baseline Ret-He vs. Hb

## SUPPLEMENTAL TABLE 2

### Comparison of Baseline Parameters between Top vs. Bottom Quartiles of the Difference between MCH and RET-He

Parameter	Top Quartile: MCH - Ret-He > 0.1 (n=140)	Bottom Quartile: MCH - Ret-He < -2.6 (n=141)	P value
<b>Hb (g/dL)</b>	10.8 (9.4, 11.9)	12.8 (11.7, 13.8)	<b>&lt;.001*</b>
<b>MCV (fL)</b>	89.9 (84.1, 95.3)	89.4 (85.8, 93.3)	.494
<b>MCH (pg)</b>	28.9 (26.2, 30.6)	30.3 (28.3, 31.5)	<b>.001*</b>
<b>Reticulocytes (%)</b>	1.6 (1.3, 2.3)	1.5 (1.1, 1.8)	<b>.001*</b>
<b>Reticulocytes (10<sup>9</sup>/L)</b>	0.07 (0.05, 0.09)	0.06 (0.05, 0.08)	.238
<b>RET-He (pg)</b>	26.7 (23.2, 29.3)	33.4 (32, 34.9)	<b>&lt;.001*</b>
<b>Ferritin (ng/mL)</b>	73 (20, 202)	160 (61, 266)	<b>&lt;.001*</b>
<b>Iron (µg/dL)</b>	42 (29, 62)	73 (56, 95)	<b>&lt;.001*</b>
<b>TIBC (µg/dL)</b>	302 (255, 382)	299 (267, 345)	.476
<b>TSAT (%)</b>	14 (9, 23)	25 (20, 33)	<b>&lt;.001*</b>

Data are presented as median  
(interquartile range).

Differences between groups were assessed using the Wilcoxon  
rank sum test.

\*Statistically significant.