

**Supplemental Table 7.** Different cutoff values of ferritin and TSAT, adjusted for age, sex, hs-CRP, and albumin, with risk of all-cause mortality in 717 CKD patients (based on eGFR<60 ml/min/1.73m<sup>2</sup> or albuminuria >30 mg/24 hours or albumin-to-creatinine ratio ≥ 30 mg/g)

TSAT (%)	HR (95%CI)	Ferritin (µg/L)	HR (95%CI)
<10	<b>2.87 (1.45-5.68)</b>	<20	0.61 (0.15-2.48)
<15	1.40 (0.87-2.26)	<50	1.47 (0.91-2.38)
<20	1.24 (0.85-1.81)	<100	1.08 (0.75-1.55)
<25	1.37 (0.95-1.96)	<200	1.36 (0.91-2.02)
<30	<b>2.17 (1.33-3.53)</b>	<300	1.64 (0.92-2.92)
		<500	2.87 (0.71-11.62)

AND TSAT	FERRITIN	<20	<50	<100	<200	<300	<500
<10		1.16 (0.28-4.77)	<b>2.38 (1.04-5.44)</b>	<b>2.54 (1.24-5.20)</b>	<b>2.87 (1.45-5.68)</b>	<b>2.87 (1.45-5.68)</b>	<b>2.87 (1.45-5.68)</b>
<15		0.72 (0.18-2.90)	1.81 (0.94-3.47)	1.64 (0.95-2.84)	1.57 (0.96-2.55)	1.49 (0.91-2.43)	1.43 (0.88-2.30)
<20		0.65 (0.16-2.62)	1.34 (0.72-2.49)	1.01 (0.63-1.64)	1.44 (0.98-2.01)	1.34 (0.92-1.95)	1.29 (0.89-1.88)
<25		0.61 (0.15-2.49)	1.52 (0.89-2.59)	1.11 (0.75-1.64)	1.41 (0.99-1.99)	<b>1.52 (1.07-2.17)</b>	<b>1.44 (1.00-2.06)</b>
<30		0.61 (0.15-2.49)	1.56 (0.96-2.52)	1.26 (0.88-1.81)	<b>1.69 (1.18-2.43)</b>	<b>2.04 (1.35-3.08)</b>	<b>2.11 (1.32-3.38)</b>

**Conditional definitions:**

Ferritin <100 µg/L or TSAT <10% with ferritin 100-199 µg/L	1.12 (0.78-1.60)
Ferritin <100 µg/L or TSAT <10% with ferritin 100-299 µg/L	1.12 (0.78-1.60)
Ferritin <100 µg/L or TSAT <15% with ferritin 100-199 µg/L	1.11 (0.78-1.58)
Ferritin <100 µg/L or TSAT <15% with ferritin 100-299 µg/L	1.09 (0.77-1.55)
Ferritin <100 µg/L or TSAT <20% with ferritin 100-199 µg/L (FIND-CKD)	<b>1.41 (1.00-2.00)</b>
Ferritin <100 µg/L or TSAT <20% with ferritin 100-299 µg/L (FAIR-HF)	1.32 (0.93-1.87)

**Supplemental Table 8.** Different cutoff values of ferritin and TSAT, adjusted for age, sex, hs-CRP, and albumin, with risk of cardiovascular mortality in CKD patients (based on eGFR<60 ml/min/1.73m<sup>2</sup> or albuminuria >30 mg/24 hours or albumin-to-creatinine ratio ≥ 30 mg/g)

TSAT (%)	HR (95%CI)	Ferritin (µg/L)	HR (95%CI)
<10	<b>5.50 (2.32-12.99)</b>	<20	0.88 (0.12-6.41)
<15	<b>2.41 (1.23-4.74)</b>	<50	1.51 (0.70-3.25)
<20	<b>1.80 (1.00-3.23)</b>	<100	1.21 (0.69-2.14)
<25	1.31 (0.74-2.33)	<200	<b>2.11 (1.01-4.38)</b>
<30	<b>2.38 (1.07-5.31)</b>	<300	<b>4.16 (1.00-17.21)</b>
		<500	-

  

AND TSAT	FERRITIN	<20	<50	<100	<200	<300	<500
<10		1.90 (0.26-14.05)	<b>4.81 (1.70-13.59)</b>	<b>5.51 (2.33-13.01)</b>	<b>5.50 (2.33-12.99)</b>	<b>5.50 (2.33-12.99)</b>	<b>5.50 (2.33-12.99)</b>
<15		1.09 (0.15-7.94)	<b>3.20 (1.34-7.63)</b>	<b>3.02 (1.45-6.28)</b>	<b>2.57 (1.28-5.15)</b>	<b>2.46 (1.23-4.94)</b>	<b>2.46 (1.25-4.83)</b>
<20		0.93 (0.13-6.78)	2.04 (0.86-4.84)	1.25 (0.60-2.58)	<b>2.19 (1.22-3.91)</b>	<b>1.92 (1.07-3.43)</b>	<b>1.88 (1.05-3.35)</b>
<25		0.88 (0.12-6.44)	1.74 (0.77-3.94)	1.08 (0.58-2.02)	1.41 (0.81-2.47)	1.55 (0.88-2.73)	1.38 (0.77-2.44)
<30		0.88 (0.12-6.44)	1.60 (0.74-3.45)	<b>1.47 (0.83-2.59)</b>	<b>2.38 (1.28-4.43)</b>	<b>2.69 (1.30-5.54)</b>	<b>2.61 (1.17-5.80)</b>

**Conditional definitions:**

Ferritin <100 µg/L or TSAT <10% with ferritin 100-199 µg/L	1.21 (0.69-2.14)
Ferritin <100 µg/L or TSAT <10% with ferritin 100-299 µg/L	1.21 (0.69-2.14)
Ferritin <100 µg/L or TSAT <15% with ferritin 100-199 µg/L	1.22 (0.70-2.14)
Ferritin <100 µg/L or TSAT <15% with ferritin 100-299 µg/L	1.20 (0.69-2.10)
Ferritin <100 µg/L or TSAT <20% with ferritin 100-199 µg/L (FIND-CKD)	<b>2.04 (1.15-3.63)</b>
Ferritin <100 µg/L or TSAT <20% with ferritin 100-299 µg/L (FAIR-HF)	<b>1.87 (1.05-3.33)</b>

**Supplemental Table 9.** Different cutoff values of ferritin and TSAT, adjusted for age, sex, hs-CRP, and albumin, with risk of anemia in CKD patients (based on eGFR<60 ml/min/1.73m<sup>2</sup> or albuminuria >30 mg/24 hours or albumin-to-creatinine ratio ≥ 30 mg/g)

<b>TSAT (%)</b>	<b>HR (95%CI)</b>	<b>Ferritin (µg/L)</b>	<b>HR (95%CI)</b>
<10	<b>2.82 (1.29-6.19)</b>	<20	<b>2.81 (1.37-5.76)</b>
<15	<b>2.31 (1.44-3.69)</b>	<50	<b>1.91 (1.19-3.06)</b>
<20	<b>1.57 (1.06-2.33)</b>	<100	<b>1.52 (1.03-2.25)</b>
<25	<b>1.75 (1.17-2.62)</b>	<200	1.24 (0.79-1.94)
<30	<b>1.78 (1.10-2.87)</b>	<300	1.17 (0.63-2.15)
		<500	4.32 (0.60-30.79)

  

<b>AND TSAT</b>	<b>FERRITIN</b>	<b>&lt;20</b>	<b>&lt;50</b>	<b>&lt;100</b>	<b>&lt;200</b>	<b>&lt;300</b>	<b>&lt;500</b>
<10		2.02 (0.72-5.64)	2.17 (0.87-5.42)	<b>2.82 (1.29-6.19)</b>	<b>2.82 (1.29-6.19)</b>	<b>2.82 (1.29-6.19)</b>	<b>2.82 (1.29-6.19)</b>
<15		<b>2.62 (1.12-6.11)</b>	<b>2.59 (1.37-4.91)</b>	<b>2.48 (1.42-4.32)</b>	<b>2.45 (1.51-3.99)</b>	<b>2.36 (1.46-3.82)</b>	<b>2.38 (1.49-3.82)</b>
<20		2.06 (0.89-4.80)	<b>1.82 (1.02-3.23)</b>	<b>1.50 (0.95-2.38)</b>	<b>1.61 (1.08-2.42)</b>	<b>1.52 (1.02-2.23)</b>	<b>1.54 (1.04-2.23)</b>
<25		<b>2.59 (1.22-5.48)</b>	<b>2.02 (1.21-3.38)</b>	<b>1.51 (1.02-2.26)</b>	<b>1.81 (1.23-2.65)</b>	<b>1.60 (1.08-2.35)</b>	<b>1.73 (1.16-2.58)</b>
<30		<b>2.59 (1.22-5.48)</b>	<b>1.93 (1.19-3.14)</b>	<b>1.55 (1.05-2.29)</b>	<b>1.72 (1.15-2.57)</b>	<b>1.53 (1.00-2.35)</b>	<b>1.80 (1.22-2.88)</b>

**Conditional definitions:**

Ferritin <100 µg/L or TSAT <10% with ferritin 100-199 µg/L	<b>1.52 (1.03-2.25)</b>
Ferritin <100 µg/L or TSAT <10% with ferritin 100-299 µg/L	<b>1.52 (1.03-2.25)</b>
Ferritin <100 µg/L or TSAT <15% with ferritin 100-199 µg/L	<b>1.68 (1.14-2.47)</b>
Ferritin <100 µg/L or TSAT <15% with ferritin 100-299 µg/L	<b>1.68 (1.14-2.47)</b>
Ferritin <100 µg/L or TSAT <20% with ferritin 100-199 µg/L (FIND-CKD)	<b>1.74 (1.18-2.58)</b>
Ferritin <100 µg/L or TSAT <20% with ferritin 100-299 µg/L (FAIR-HF)	<b>1.71 (1.15-2.55)</b>