

Supplemental material is neither peer-reviewed nor thoroughly edited by CJASN. The authors alone are responsible for the accuracy and presentation of the material.

Supplement Table 1. ACES Subscale Items

Domain	Items
Communication Quality	Thoroughness of doctor's questions about your symptoms and how you are feeling
	Attention doctor gives to what you have to say
	Doctor's explanations of your health problems or treatments
	Doctor's instructions about symptoms to report and when to seek further care
	Doctor's advice and help in making decisions about your care
	How often do you leave your doctor's office with unanswered questions?
Whole-person Orientation	Doctor's knowledge of entire medical history
	Doctor's knowledge about your responsibilities at work, home or school
	Doctor's knowledge about you as a person (your values and beliefs)
Health Promotion	Did your personal doctor give you the help you wanted to reach or maintain a healthy body weight?
	Did your personal doctor talk with you about specific things you could do to improve your health or prevent illness?
	Did your personal doctor give you the help you needed to make changes in your habits or lifestyle that would improve your health or prevent illness?
	Did your personal doctor ever ask you about whether your health makes it hard to do the things you need to do each day (such as at work or home)?
	Did your personal doctor give the attention you felt you needed to your emotional health and well-being?
	How often did your personal doctor treat you with respect?
Interpersonal Treatment	How often was your personal doctor caring and kind?
	How often did your personal doctor spend enough time with you?
	How often did you feel you could tell your personal doctor anything, even things you might not tell anyone else?
Patient Trust	How often did you feel that your personal doctor had all the information needed to correctly diagnose and treat your health problems?
	How often did your personal doctor put your best interests first when making recommendations about your care?

Supplemental material is neither peer-reviewed nor thoroughly edited by CJASN. The authors alone are responsible for the accuracy and presentation of the material.

Supplemental Table 2. Association of Low Patient Experience Subscale Scores with Rates of Ambulatory Care-Sensitive Condition Hospitalization*

	Events (n)	Rate per 100 person-yr	Rate Ratio (95% CI)	Absolute Risk Reduction (95% CI)
Subscales			Adjusted	Adjusted
Communication Low	51	9.4	1.25 (0.75, 2.10)	-0.6 (-4.9, 3.8)
Communication High	40	5.1	Reference	--
Whole Person Orientation Low	56	7.7	1.10 (0.67, 1.82)	-0.3 (-4.5, 3.9)
Whole Person Orientation High	45	6.2	Reference	--
Health Promotion Low	29	6.8	1.06 (0.62, 1.81)	-0.1 (-4.3, 4.0)
Health Promotion High	62	6.9	Reference	--
Interpersonal Treatment Low	61	10.3	2.38 (1.41, 4.03)	-2.5 (-7.9, 2.8)
Interpersonal Treatment High	30	4.1	Reference	--
Trust Low	54	8.7	1.64 (0.99, 2.71)	-1.2 (-5.4, 3.0)
Trust High	37	5.3	Reference	--

Adjusted for demographic factors (age, gender, income, education, language), nephrology care and clinical factors (diabetes, hypertension, any cardiovascular disease, KDQOL-36, Beck Depression Inventory score, eGFR, and albuminuria).

*Hospitalization defined as an ambulatory care-sensitive hospitalization when ICD9 code for one of following conditions was listed as the primary cause of the hospitalization: asthma, angina (without procedure), congestive heart failure, bacterial pneumonia, chronic obstructive pulmonary disease, dehydration, diabetes long-term complications, diabetes short-term complications, hypertension, lower-extremity amputation for individuals with diabetes, perforated appendix, uncontrolled diabetes, and urinary tract infection.

Supplemental material is neither peer-reviewed nor thoroughly edited by CJASN. The authors alone are responsible for the accuracy and presentation of the material.

Supplemental Table 3. Association of Low Patient Experience Subscale Scores with All-Cause Hospitalization adjusting for Insurance, Medication Adherence and Time-Updated Systolic BP and HbA1c

Dichotomized/Quartile	Model 1	Model 2	Model 3
ACES Domain (separated model)	Rate ratio (95% CI)	Rate ratio (95% CI)	Rate ratio (95% CI)
Communication	1.49(1.20, 1.84)	1.54(1.23, 1.92)	1.6(1.01, 2.53)
Whole person orientation	1.06(0.85, 1.31)	1.18(0.94, 1.47)	1.03(0.65, 1.63)
Health Promotion	1.24(0.99, 1.56)	1.22(0.96, 1.56)	1.49(0.90, 2.48)
Interpersonal Treatment	1.43(1.15, 1.77)	1.42(1.14, 1.78)	1.54(1.02, 2.32)
Trust	1.53(1.24, 1.90)	1.53(1.23, 1.92)	1.61(1.06, 2.43)

Base model (not shown) includes demographic factors (age, gender, income, education, language), nephrology care and clinical factors (diabetes, hypertension, any cardiovascular disease, KDQOL-36, Beck Depression Inventory score, eGFR, and albuminuria).

Model 1: Base Model plus baseline health insurance

Model 2: Base Model plus baseline medication adherence

Model 3: Base Model plus time-update systolic blood pressure and HbA1c

Supplemental Table 4. Association of Low Patient Experience Subscale Scores with All-Cause Hospitalization

Variables	RR (95% CI)	Variables	RR (95% CI)	Variables	RR (95% CI)	Variables	RR (95% CI)	Variables	RR (95% CI)
Communication Low v. high	1.54 (1.25, 1.90)	Whole Person Orientation Low v. High	1.20 (0.97, 1.47)	Health Promotion Low v. High	1.31 (1.05, 1.62)	Interpersonal Treatment Low v. high	1.50 (1.22, 1.85)	Trust low v. High	1.57 (1.27, 1.93)
Age	1.00 (0.99, 1.02)	Age	1.00 (0.99, 1.02)	Age	1.00 (0.99, 1.02)	Age	1.01 (0.99, 1.02)	Age	1.01 (1.00, 1.02)
Sex (F vs M)	1.33 (1.07, 1.65)	Sex	1.31 (1.05, 1.63)	Sex	1.30 (1.04, 1.62)	Sex	1.35 (1.09, 1.68)	Sex	1.29 (1.04, 1.61)
Income (<\$20,000 vs >=\$20,000)	1.24 (0.91, 1.69)	Income	1.25 (0.92, 1.71)	Income	1.27 (0.93, 1.73)	Income	1.22 (0.90, 1.66)	Income	1.30 (0.96, 1.77)
Education (< HS)	0.92 (0.72, 1.18)	Education	0.93 (0.73, 1.19)	Education	0.93 (0.73, 1.18)	Education	0.98 (0.76, 1.25)	Education	0.98 (0.77, 1.26)
Language (Spanish)	0.89 (0.66, 1.20)	Language	0.85 (0.64, 1.15)	Language	0.91 (0.67, 1.22)	Language	0.82 (0.61, 1.10)	Language	0.84 (0.62, 1.14)
Diabetes	1.61 (1.22, 2.13)	Diabetes	1.61 (1.22, 2.12)	Diabetes	1.65 (1.25, 2.18)	Diabetes	1.69 (1.27, 2.24)	Diabetes	1.56 (1.18, 2.06)
Hypertension	1.19 (0.80, 1.75)	Hypertension	1.08 (0.73, 1.59)	Hypertension	1.09 (0.74, 1.62)	Hypertension	1.05 (0.71, 1.56)	Hypertension	1.03 (0.70, 1.53)
Any CVD	1.68 (1.35, 2.10)	Any CVD	1.76 (1.41, 2.20)	Any CVD	1.77 (1.42, 2.20)	Any CVD	1.71 (1.37, 2.13)	Any CVD	1.71 (1.37, 2.13)
KDQOL-36 (Good/Fair/Poor)	0.58 (0.37, 0.91)	KDQOL-36	0.65 (0.42, 1.00)	KDQOL-36	0.62 (0.39, 0.96)	KDQOL-36	0.64 (0.41, 1.00)	KDQOL-36	0.69 (0.44, 1.07)
BDI (>=11)	1.47 (1.19, 1.82)	BDI	1.59 (1.29, 1.96)	BDI	1.58 (1.28, 1.94)	BDI	1.52 (1.23, 1.87)	BDI	1.52 (1.23, 1.88)
eGFR	1.02 (1.01, 1.03)	eGFR	1.02 (1.01, 1.03)	eGFR	1.02 (1.01, 1.03)	eGFR	1.02 (1.01, 1.03)	eGFR	1.02 (1.01, 1.03)
albuminuria	1.06 (0.84, 1.35)	Albuminuria	1.13 (0.89, 1.44)	albuminuria	1.13 (0.89, 1.44)	albuminuria	1.07 (0.84, 1.36)	albuminuria	1.10 (0.86, 1.40)
Nephrology care	1.05 (0.85, 1.30)	Nephrology care	1.05 (0.85, 1.31)	Nephrology care	1.07 (0.87, 1.33)	Nephrology care	1.06 (0.86, 1.32)	Nephrology care	1.05 (0.85, 1.29)

Supplemental Table 5. Association of Low Patient Experience Subscale Scores with ESKD Risk

Variables	HR (95% CI)	Variables	HR (95% CI)	Variables	HR (95% CI)	Variables	HR (95% CI)	Variables	HR (95% CI)
Communication Low v. high	1.58(0.93-2.71)	Whole Person Orientation Low v. High	1.01(0.59-1.71)	Health Promotion Low v. High	1.32(0.74-2.37)	Interpersonal Treatment Low v. high	1.15(0.68-1.94)	Trust low v. High	1.25(0.74-2.11)
Age	0.96(0.94-0.99)	Age	0.96(0.94-0.99)	Age	0.96(0.94-0.99)	Age	0.97(0.94-0.99)	Age	0.97(0.94-0.99)
Sex (F vs M)	0.79(0.45-1.38)	Sex	0.77(0.43-1.36)	Sex	0.76(0.43-1.34)	Sex	0.78(0.44-1.38)	Sex	0.79(0.45-1.4)
Income (<\$20,000 vs >=\$20,000)	2.03(0.93-4.46)	Income	1.97(0.91-4.28)	Income	1.95(0.9-4.23)	Income	1.94(0.9-4.2)	Income	1.98(0.92-4.27)
Education (< HS)	0.68(0.37-1.23)	Education	0.71(0.39-1.27)	Education	0.7(0.39-1.26)	Education	0.7(0.39-1.26)	Education	0.72(0.4-1.3)
Language (Spanish)	1.35(0.67-2.7)	Language	1.38(0.68-2.77)	Language	1.43(0.71-2.87)	Language	1.35(0.67-2.72)	Language	1.34(0.67-2.69)
Diabetes	4.88(2.02-11.8)	Diabetes	4.66(1.94-11.18)	Diabetes	4.89(2.03-11.77)	Diabetes	4.63(1.94-11.09)	Diabetes	4.85(2.02-11.64)
Hypertension	2.53(0.7-9.19)	Hypertension	2.07(0.59-7.26)	Hypertension	2.35(0.65-8.5)	Hypertension	2.16(0.61-7.63)	Hypertension	2.26(0.63-8.04)
Any CVD	0.54(0.3-0.98)	Any CVD	0.61(0.34-1.09)	Any CVD	0.63(0.35-1.12)	Any CVD	0.58(0.32-1.06)	Any CVD	0.57(0.31-1.03)
KDQOL-36 (Good/Fair/Poor)	0.29(0.05-1.48)	KDQOL-36	0.31(0.06-1.55)	KDQOL-36	0.29(0.06-1.47)	KDQOL-36	0.31(0.06-1.58)	KDQOL-36	0.29(0.06-1.5)
BDI (>=11)	0.55(0.31-0.96)	BDI	0.6(0.34-1.06)	BDI	0.6(0.34-1.04)	BDI	0.6(0.34-1.05)	BDI	0.61(0.35-1.07)
eGFR	0.9(0.87-0.93)	eGFR	0.91(0.88-0.94)	eGFR	0.91(0.88-0.93)	eGFR	0.91(0.88-0.94)	eGFR	0.91(0.88-0.94)
albuminuria	5.84(2.27-15.04)	albuminuria	5.88(2.26-15.31)	albuminuria	6.14(2.37-15.88)	albuminuria	5.89(2.29-15.19)	albuminuria	5.99(2.31-15.51)

Supplemental Table 6. Association of Low Patient Experience Subscale Scores with Mortality Risk

	Variables	HR (95% CI)	Variables	HR (95% CI)	Variables	HR (95% CI)	Variables	HR (95% CI)	Variables	HR (95% CI)
Mortality	Communication Low v. high	0.9(0.45-1.82)	Whole Person Orientation Low v. High	0.87(0.43-1.78)	Health Promotion Low v. High	0.62(0.27-1.44)	Interpersonal Treatment Low v. high	0.81(0.4-1.64)	Trust low v. High	0.92(0.47-1.79)
	Age	1.02(0.99-1.06)	Age	1.02(0.99-1.06)	Age	1.02(0.99-1.06)	Age	1.02(0.98-1.06)	Age	1.02(0.99-1.06)
	Sex (F vs M)	1.12(0.56-2.24)	Sex	1.12(0.56-2.23)	Sex	1.12(0.56-2.22)	Sex	1.1(0.55-2.2)	Sex	1.13(0.57-2.25)
	Income (<\$20,000 vs >=\$20,000)	0.94(0.37-2.41)	Income	0.96(0.37-2.46)	Income	0.99(0.39-2.53)	Income	0.97(0.38-2.48)	Income	0.93(0.36-2.36)
	Education (< HS)	1.42(0.6-3.37)	Education	1.42(0.6-3.37)	Education	1.4(0.59-3.31)	Education	1.42(0.6-3.37)	Education	1.41(0.59-3.37)
	Language (Spanish)	0.72(0.27-1.94)	Language	0.74(0.27-1.98)	Language	0.69(0.25-1.87)	Language	0.75(0.28-2.03)	Language	0.73(0.27-1.97)
	Diabetes	1.6(0.59-4.37)	Diabetes	1.58(0.58-4.35)	Diabetes	1.5(0.54-4.14)	Diabetes	1.57(0.57-4.28)	Diabetes	1.61(0.59-4.41)
	Hypertension	0.56(0.15-2.16)	Hypertension	0.57(0.15-2.14)	Hypertension	0.53(0.14-1.99)	Hypertension	0.57(0.15-2.17)	Hypertension	0.57(0.15-2.17)
	Any CVD	1.53(0.75-3.11)	Any CVD	1.49(0.73-3.02)	Any CVD	1.48(0.73-3.01)	Any CVD	1.53(0.76-3.11)	Any CVD	1.52(0.75-3.1)
	KDQOL-36 (Good/Fair/Poor)	0.49(0.1-2.47)	KDQOL-36	0.48(0.1-2.41)	KDQOL-36	0.53(0.1-2.66)	KDQOL-36	0.48(0.1-2.38)	KDQOL-36	0.48(0.09-2.39)
	BDI (>=11)	1.71(0.84-3.49)	BDI	1.67(0.83-3.37)	BDI	1.69(0.83-3.44)	BDI	1.72(0.85-3.47)	BDI	1.69(0.84-3.39)
	eGFR	0.99(0.95-1.02)	eGFR	0.98(0.95-1.02)	eGFR	0.99(0.95-1.02)	eGFR	0.99(0.95-1.02)	eGFR	0.98(0.95-1.02)
	albuminuria	2.06(0.87-4.86)	albuminuria	2.01(0.85-4.77)	albuminuria	1.99(0.84-4.73)	albuminuria	2.07(0.88-4.9)	albuminuria	2.04(0.87-4.79)