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| **Supplemental Table 1. Adjusted Scores of Interpersonal Processes of Care Across Disease Activity in African American Patients with SLE** |
| **IPC Characteristic** | **Adjusted\* mean of IPC** |
| **Mild****(n=219)** | **Moderate****(n=246)** | **Severe****(n=233)** | **P (trend)** |
| *1.Communication***Hurried communication (-)** | 1.50 (1.35-1.65) | 1.65 (1.51-1.80) | 1.79 (1.63-1.95) | 0.0007 |
|  Lack of clarity (-) | 1.70 (1.52-1.87) | 1.86 (1.69-2.03) | 1.89 (1.70-2.09) | 0.06 |
|  Hurried, distracted (-) | 1.37 (1.22-1.53) | 1.52 (1.37-1.67) | 1.73 (1.56-1.89) | 0.0001 |
| **Elicited concerns, responded (+)** | 4.37 (4.19-4.55) | 4.22 (4.04-4.39) | 4.05 (3.85-4.25) | 0.0029 |
| **Explained results, medications (+)** | 4.00 (3.79-4.22) | 3.89 (3.68-4.10) | 3.72 (3.48-3.95) | 0.024 |
|  Explained Results (+) | 4.25 (4.03-4.46) | 4.23 (4.02-4.45) | 3.95 (3.71-4.19) | 0.02 |
|  Explained Medications (+) | 3.76 (3.50-4.01) | 3.55 (3.30-3.79) | 3.49 (3.21-3.76) | 0.068 |
| *2. Decision making***Patient-centered decision making (+)** | 3.39 (3.13-3.65) | 3.26 (3.01-3.51) | 3.20 (2.92-3.48) | 0.22 |
|  Asked Patient (+) | 3.42 (3.14-3.71) | 3.33 (3.05-3.61) | 3.19 (2.88-3.50) | 0.17 |
|  Worked Together (+) | 3.34 (3.06-3.62) | 3.20 (2.92-3.47) | 3.20 (2.90-3.51) | 0.40 |
| *3.Interpersonal Style***Compassionate, respectful (+)** | 4.46 (4.28-4.63) | 4.23 (4.05-4.40) | 4.08 (3.89-4.28) | 0.0004 |
|  Emotional support, compassion (+) | 4.38 (4.18-4.57) | 4.15 (3.96-4.34) | 3.98 (3.76-4.19) | 0.0006 |
|  Respectfulness (+) | 4.57 (4.39-4.76) | 4.35 (4.16-4.53) | 4.24 (4.03-4.44) | 0.002 |
| **Discriminated (-)** | 1.27 (1.13-1.41) | 1.39 (1.25-1.53) | 1.49 (1.33-1.65) | 0.01 |
|  Assumed SES (-) | 1.36 (1.17-1.55) | 1.46 (1.27-1.64) | 1.63 (1.43-1.84) | 0.014 |
|  Discriminated due to race/ethnicity(-) | 1.18 (1.04-1.32) | 1.32 (1.18-1.46) | 1.35 (1.20-1.50) | 0.04 |
| **Disrespectful office staff (-)** | 1.31 (1.16-1.45) | 1.45 (1.31-1.59) | 1.44 (1.28-1.59) | 0.14 |

Domains are underlined, scales are in italic font, subdomains are indented. A higher score indicates higher frequency of the labeled construct. \*Adjusted by age, disease duration, gender, education, insurance, organ damage, and disease activity and healthcare facility. Mod: moderate; Sev: severe. P values are calculated with linear trend test.

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| **Supplemental Table 2. Adjusted Scores of Interpersonal Processes of Care Across Depression Symptoms in African American Patients with SLE** |
| **IPC Characteristic** | **Adjusted\* mean of IPC** |
| **Mild****(n=261)** | **Moderate****(n=216)** | **Severe****(n=225)** | **P (trend)** |
| *1.Communication***Hurried communication (-)** | 1.57 (1.43-1.72) | 1.59 (1.44-1.74) | 1.85 (1.70-2.01) | 0.0006 |
|  Lack of clarity (-) | 1.74 (1.57-1.92) | 1.74 (1.56-1.92) | 2.03 (1.85-2.22) | 0.0029 |
|  Hurried, distracted (-) | 1.46 (1.31-1.62) | 1.50 (1.34-1.65) | 1.73 (1.57-1.89) | 0.0018 |
| **Elicited concerns, responded (+)** | 4.26 (4.08-4.45) | 4.28 (4.10-4.47) | 4.04 (3.85-4.23) | 0.023 |
| **Explained results, medications (+)** | 3.96 (3.74-4.17) | 3.91 (3.70-4.13) | 3.66 (3.44-3.89) | 0.013 |
|  Explained Results (+) | 4.24 (4.02-4.45) | 4.22 (4.00-4.44) | 3.90 (3.68-4.13) | 0.0049 |
|  Explained Medications (+) | 3.68 (3.43-3.94) | 3.61 (3.35-3.86) | 3.43 (3.17-3.70) | 0.075 |
| *2. Decision making***Patient-centered decision making (+)** | 3.29 (3.03-3.55) | 3.43 (3.17-3.69) | 3.11 (2.84-3.38) | 0.21 |
|  Asked Patient (+) | 3.33 (3.04-3.61) | 3.42 (3.14-3.71) | 3.16 (2.86-3.46) | 0.29 |
|  Worked Together (+) | 3.25 (2.97-3.53) | 3.44 (3.15-3.72) | 3.04 (2.75-3.33) | 0.18 |
| *3.Interpersonal Style***Compassionate, respectful (+)** | 4.28 (4.10-4.46) | 4.34 (4.16-4.52) | 4.08 (3.89-4.27) | 0.041 |
|  Emotional support, compassion (+) | 4.21 (4.01-4.40) | 4.26 (4.06-4.45) | 3.97 (3.77-4.17) | 0.03 |
|  Respectfulness (+) | 4.39 (4.21-4.58) | 4.48 (4.29-4.66) | 4.24 (4.04-4.43) | 0.13 |
| **Discriminated (-)** | 1.38 (1.23-1.52) | 1.32 (1.18-1.47) | 1.48 (1.33-1.63) | 0.2 |
|  Assumed SES (-) | 1.49 (1.30-1.68) | 1.43 (1.24-1.62) | 1.54 (1.34-1.74) | 0.64 |
|  Discriminated due to race/ethnicity(-) | 1.25 (1.11-1.40) | 1.21 (1.07-1.35) | 1.43 (1.28-1.57) | 0.027 |
| **Disrespectful office staff (-)** | 1.33 (1.18-1.47) | 1.35 (1.20-1.50) | 1.57 (1.42-1.72) | 0.0026 |

Domains are underlined, scales are in italic font, subdomains are indented. A higher score indicates higher frequency of the labeled construct. \*Adjusted by age, disease duration, gender, education, insurance, organ damage, and disease activity and healthcare facility. Mod: moderate; Sev: severe. P values are calculated with linear trend test.

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| **Supplemental Table 3. Multivariate Models of the Effect of Disease Activity and Depression on Suboptimal Quality of IPC in African American Patients with SLE** |
| **Variable** | **Communication Subscale****(IPC-18)** | **Decided Together Subscale****(IPC-18)** | **Interpersonal Style Subscale****(IPC-18)** |
| **OR (95%CI)** | **P Value** | **OR (95%CI)** | **P Value** | **OR (95%CI)** | **P Value** |
| Age at survey (per 5 years↑) | 0.94 (0.86-1.03) | 0.20 | 1.11 (1.02-1.20) | 0.021 | 1.04 (0.96-1.11) | 0.35 |
| Disease duration (per 5 years↑) | 1.07 (0.95-1.22) | 0.26 | 1.13 (0.99-1.28) | 0.06 | 1.13 (1.01-1.25) | 0.027 |
| Education (per 3 years↑) | 1.07 (0.85-1.36) | 0.56 | 1.27 (1.01-1.60) | 0.038 | 1.20 (0.99-1.46) | 0.059 |
| Gender (Female) | 1.74 (0.86-3.55) | 0.13 | 1.65 (0.83-3.29) | 0.16 | 1.48 (0.78-2.79) | 0.23 |
| No Insurance  | 1.00 (0.51-1.99) | 0.99 | 2.09 (1.06-4.11) | 0.033 | 1.16 (0.66-2.01) | 0.61 |
| Disease activity score (per 4 units↑) | 1.10 (0.96-1.25) | 0.17 | 1.09 (0.97-1.22) | 0.14 | 1.13 (1.02-1.25) | 0.015 |
| Depression (PHQ score) (per 3units↑) | 1.19 (1.03-1.38) | 0.018 | 1.07 (0.95-1.21) | 0.26 | 1.11 (1.00-1.24) | 0.045 |
| Mild organ damage (ref: no damage)  | 0.83 (0.41-1.65) | 0.98 | 0.66 (0.35-1.25) | 0.48 | 0.57 (0.33-0.99) | 0.12 |
| Severe organ damage (ref: no damage) | 0.68 (0.34-1.36) | 0.23 | 0.60 (0.32-1.14) | 0.18 | 0.60 (0.34-1.04) | 0.23 |
| Grady Hospital (Ref: Emory)  | 0.82 (0.47-1.41) | 0.047 | 1.09 (0.66-1.79) | 0.31 | 0.99 (0.63-1.54) | 0.61 |
| Community Practice (Ref: Emory) | 1.48 (0.83-2.62) | 0.46 | 1.24 (0.75-2.06) | 0.75 | 1.22 (0.79-1.90) | 0.40 |
| Multiple Facilities (Ref: Emory) | 2.03 (0.67-6.15) | 0.24 | 2.26 (0.88-5.77) | 0.12 | 1.08 (0.53-2.20) | 0.96 |