

TABLE E-1 Construct Validity

#	Hypothesis	Scale of Independent Variable	Statistical Test	P value
<i>Shoulder Instability</i>				
1	Patients with less satisfaction with their shoulder function would have lower ASES shoulder scale scores.	Ordinal 0-10 scale, anchored at completely dissatisfied (0) and completely satisfied (10).	Pearson correlation coefficient	<0.001*
2	Workers' Compensation patients would have lower ASES shoulder scale scores than non-Workers' Compensation patients.	Dichotomous (Workers' Compensation, non-Workers' Compensation)	Student t test	<0.001*
3	Patients with greater shoulder-related difficulty with activities of daily living would have lower ASES shoulder scale scores.	Ordinal Likert scale of none, mild, moderate, and severe.	Spearman rho	0.008*
4	Patients with greater shoulder-related difficulty with work would have lower ASES shoulder scale scores.	Ordinal Likert scale of none, mild, moderate, and severe.	Spearman rho	0.003*
5	Patients with greater shoulder-related difficulty with sports would have lower ASES shoulder scale scores.	Ordinal Likert scale of none, mild, moderate, and severe.	Spearman rho	0.018*
6	Patients with greater shoulder-related difficulty with sleep would have lower ASES shoulder scale scores.	Ordinal Likert scale of none, mild, moderate, and severe.	Spearman rho	0.001*
7	Patients with greater frequency of shoulder instability would have lower ASES shoulder scale scores.	Ordinal Likert scale of none, rare, occasional, and frequent.	Spearman rho	0.016*
8	Patients with less forward elevation would have lower ASES shoulder scale scores.	Ordinal Likert scale of waist, nipple, neck, head, and overhead.	Spearman rho	<0.001*
<i>Rotator Cuff Disease</i>				
9	Patients with less satisfaction with their shoulder function would have lower ASES shoulder scale scores.	Ordinal 0-10 scale, anchored at completely dissatisfied (0) and completely satisfied (10).	Pearson correlation coefficient	<0.001*
10	Workers' Compensation patients would have lower ASES shoulder scale scores than non-Workers' Compensation patients.	Dichotomous (Workers' Compensation, non-Workers' Compensation)	Student t test	<0.001*
11	Patients with greater shoulder-related difficulty with activities of daily living would have lower ASES shoulder scale scores.	Ordinal Likert scale of none, mild, moderate, and severe.	Spearman rho	<0.001*
12	Patients with greater shoulder-related difficulty with work would have lower ASES shoulder scale scores.	Ordinal Likert scale of none, mild, moderate, and severe.	Spearman rho	0.001*
13	Patients with greater shoulder-related difficulty with sports would have lower ASES shoulder scale scores.	Ordinal Likert scale of none, mild, moderate, and severe.	Spearman rho	0.001*
14	Patients with greater shoulder-related difficulty with sleep would have lower ASES shoulder scale scores.	Ordinal Likert scale of none, mild, moderate, and severe.	Spearman rho	<0.001*
15	Patients with greater difficulty carrying 20 lb (9 kg) at their side would have lower ASES shoulder scale scores.	Ordinal Likert scale of none, mild, moderate, and severe.	Spearman rho	0.048*
<i>Glenohumeral Arthritis</i>				
16	Patients with less satisfaction with their shoulder function would have lower ASES shoulder scale scores.	Ordinal 0-10 scale, anchored at completely dissatisfied (0) and completely satisfied (10).	Pearson correlation coefficient	<0.001*
17	Patients with greater shoulder-related difficulty with activities of daily living would have lower ASES shoulder scale scores.	Ordinal Likert scale of none, mild, moderate, and severe.	Spearman rho	0.041*
18	Patients with greater shoulder-related difficulty with sports would have lower ASES shoulder scale scores.	Ordinal Likert scale of none, mild, moderate, and severe.	Spearman rho	0.027*
19	Patients with greater shoulder-related difficulty with sleep would have lower ASES shoulder scale scores.	Ordinal Likert scale of none, mild, moderate, and severe.	Spearman rho	0.038*
20	Patients with greater difficulty tucking in their shirt would have lower ASES shoulder scale scores.	Ordinal Likert scale of none, mild, moderate, and severe.	Spearman rho	0.034*
21	Patients with greater difficulty lifting one pound to shoulder height would have lower ASES shoulder scale scores.	Ordinal Likert scale of none, mild, moderate, and severe.	Spearman rho	<0.001*
22	Patients with greater difficulty carrying 20 lb (9 kg) at their side would have lower ASES shoulder scale scores.	Ordinal Likert scale of none, mild, moderate, and severe.	Spearman rho	0.001*
23	Patients with greater difficulty washing their back or opposite shoulder would have lower ASES shoulder scale scores.	Ordinal Likert scale of none, mild, moderate, and severe.	Spearman rho	0.040*

*P < 0.05