Table 1

Descriptive Statistics and Reliability Coefficients

| Variable | M | SD | α | Observed Range |
| --- | --- | --- | --- | --- |
| SCI-2 Total | 3.85 | 0.64 | .92 | 1.50-5.00 |
| Reinforcement of Needs | 3.79 | 0.67 | .84 | 1.33-5.00 |
| Membership | 3.90 | 0.62 | .82 | 2.17-5.00 |
| Influence | 3.56 | 0.75 | .79 | 1.50-5.00 |
| Shared Emotion | 3.68 | 0.72 | .86 | 1.67-5.00 |
| SOVC Total | 3.62 | 0.76 | .79 | 1.75-5.00 |
| Information Need | 3.54 | 0.68 | .78 | 2.00-5.00 |
| Knowledge Contribution | 3.71 | 0.62 | .73 | 2.25-5.00 |
| Impact | 3.28 | 0.79 | .82 | 1.50-5.00 |
| Frame | 3.39 | 0.73 | .71 | 1.75-4.75 |
| Interpersonal Knowledge Generation | Fill | In | These | Values |
| Organizational Knowledge Generation | Fill | In | These | Values |
| *Participation Frequency* |  |  |  | *1 - 7* |

*Note*. SCI-2 = Sense of Community Index 2; SOVC = Sense of Virtual Community; M = Mean; SD = Standard Deviation; α = Cronbach's alpha; *n* = 204.

DOES COMMUNITY ENGAGMENT MEAN THE SAME THING AS PARTICIPATION FREQUENCY?

Descriptive Statistics for Key Demographic Variables

| Variable | M | SD | Observed Range |
| --- | --- | --- | --- |
| Age | XX years | yy | Xx - yy |
| Years of Military Service | WW years | Ww | Y - ZZ |
| Community Tenure | XX months | YY | 1 - XX |
| Participation Frequency | X.x | XX | 1 - 7 |

*Note*. M = Mean; SD = Standard Deviation; *n* = 204. Frequency was measured on a scale from 1 (*never*) to 7 (*daily*).

MS page 18

RQ3 addressed potential differences in sense of community (as measured by the overall SCI-2 and SOV scores) and virtual community engagement as a function of Military Rank, Professional Role, Community Tenure, and Participation Frequency, and Motherhood Status.

Table XX

Means and Standard Deviations for SCI-2 and SOV scores as a Function of Key Demographic Variables

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  | SCI-2 | SOV | Virtual Engagement |
| Military Rank | | *n* |  |  |  |
|  | Lieutenant | X | *3.82* |  |  |
|  | Captain | X |  | *3.58* |  |
|  | Major | X |  |  |  |
|  | Lieutenant Colonel | X | *3.91 (x.x)* |  |  |
|  | Colonel | X |  | *3.69 (y.y)* |  |
| Professional Role | |  |  |  |  |
|  | Administrative | X |  |  |  |
|  | Technological | X |  |  |  |
|  | Professional | X |  |  |  |
|  |  |  |  |  |  |
| Community Tenure | |  |  |  |  |
|  | Less than 1 year | 45 |  |  |  |
|  | 1 to 3 years | 89 |  |  |  |
|  | 4+ years | 70 |  |  |  |
| Participation Frequency | |  |  |  |  |
|  | Lower Frequency | 126 |  |  |  |
|  | Higher Frequency | 78 |  |  |  |
| Motherhood Sataus | |  |  |  |  |
|  | Mother | 156 |  |  |  |
|  | Non-Mother | 48 |  |  |  |

*Note*. Participants were asked to report their Community Tenure in months and responses were grouped into three categores for further analysis.

SD are shown in parenthesis

| Variable | M | SD | Observed Range |
| --- | --- | --- | --- |
| Age | XX years | yy | Xx - yy |
| Years of Military Service | WW years | Ww | Y - ZZ |
| Community Tenure | XX months | YY | 1 - XX |
| Participation Frequency | X.x | XX | 1 - 7 |

*Note*. M = Mean; SD = Standard Deviation; *n* = 204. Participation Frequency was measured on a scale from 1 (*never*) to 7 (*daily*).

### Research Questions and Hypotheses

Based on the study’s focus on virtual communities of practice, sense of belonging, and work engagement in military contexts, this research addresses the following questions:

RQ1: Is there a positive relationship between community participation and knowledge sharing in virtual settings?

H1: There will be a positive correlation between measures of sense of community (SCI-2 Membership subscale) and interpersonal knowledge members feel they generate.

H2: There will be a positive correlation between measures of sense of community (SCI-2 Influence subscale) and organizational knowledge members feel they generate.

RQ2: Are there differences in sense of community scores (as measured by the SOC2 and SOVC) as a function of military rank, community tenure, or participation frequency?

H1: Sense of community scores will be higher for women of higher military rank.

H2: *Consider whether the analysis should be correlational or ANOVA after figuring out if community tenure is categorical or continuous/ordinal. Ditto Participation frequency. Ordinal categories or continuous data?*

RQ3: How does the Wonder Women virtual community influence women’s sense of belonging and work engagement in the military context?

RQ4: How does this VCOP support career servicewomen in navigating organizational challenges, particularly during periods of institutional change?

**Table 2: Key Correlations Between Study Variables**

| **Variables** | **1** | **2** | **3** | **4** | **5** |
| --- | --- | --- | --- | --- | --- |
| 1. SCI-2 Total | - |  |  |  |  |
| 2. SOVC Total | .543\*\*\* | - |  |  |  |
| 3. SCI Membership | .525\*\*\* | .883\*\*\* | - |  |  |
| 4. Interpersonal Knowledge | .408\*\*\* | .455\*\*\* | .353\*\*\* | - |  |
| 5. SCI Influence | .415\*\*\* | .860\*\*\* | .707\*\*\* | .447\*\*\* | - |
| 6. Organizational Knowledge | .311\*\*\* | .587\*\*\* | .456\*\*\* | .714\*\*\* | .575\*\*\* |

*Note*. \*\*\**p* < .001. Complete correlation matrix available upon request.