

## SUPPLEMENTARY MATERIALS

**Table S1***RULS scales and subscales*

No.	Scale/Subscale	RULS item number
1	Hawkley et al. (2005) Short F. 1	2, 11, 14, 17
2	Hawkley et al. (2005) Short F. 3	1, 5, 6, 9
3	Hojat (1982) F. 1	12, 14, 17, 18
4	Hojat (1982) F. 4	2, 3, 7, 8
5	McWhirter (1990) F. 2 / Hawkley et al. (2005) Short F. 2	10, 16, 19, 20
6	Penning et al. (2014) F. 2	4, 10, 19, 20
7	Roberts et al. (1993) F. 1	2, 7, 11, 14
8	Roberts et al. (1993) F. 2	1, 4, 5, 15
9	Russell et al. (1980) Short	1, 13, 15, 18
10	Austin (1983) F. 2 / Neto (1992) F. 2 / Hawkley et al. (2005) Complete F. 2	10, 15, 16, 19, 20
11	Austin (1983) F. 3	1, 4, 5, 6, 9
12	Hawkley et al. (2005) Complete F. 3	1, 5, 6, 8, 9
13	Knight et al. (1988) A positive items*	1, 4, 6, 16, 19
14	Knight et al. (1988) A negative items*	2, 7, 8, 11, 18
15	Knight et al. (1988) B positive items*	5, 9, 10, 15, 20
16	Knight et al. (1988) B negative items*	3, 12, 13, 14, 17
17	Penning et al. (2014) F. 1	2, 3, 11, 14, 17
18	Penning et al. (2014) F. 4	1, 5, 6, 9, 15
19	Russell (1996) 10-item positive items	6, 10, 16, 19, 20
20	Russell (1996) 10-item negative items	2, 11, 13, 14, 18
21	McWhirter (1990) F. 3	1, 4, 5, 6, 9, 15
22	Neto (1992) F. 1 ULS-6	2, 5, 11, 14, 17, 18
23	Penning et al. (2014) F. 3	7, 8, 12, 13, 16, 18
24	Wilson et al. (1992) UCLA-8 F. 1	2, 3, 11, 14, 17, 18
25	Wongpakaran (2020) RULS-6	2, 4, 7, 11, 13, 18
26	Oshagan & Allen (1992)	2, 3, 11, 12, 13, 14, 18
27	Hays & DiMatteo (1987) ULS-8	2, 3, 9, 11, 14, 15, 17, 18
28	Roberts et al. (1993) RULS-8	1, 2, 4, 5, 7, 11, 14, 15
29	Wilson et al. (1992) UCLA-20 F. 2	1, 5, 6, 9, 10, 15, 19, 20
30	Russell (1996) UCLA-LS 3 positive items	1, 5, 6, 9, 10, 15, 16, 19, 20
31	Austin (1983) F. 1 / Russell et al. (1980) negative items	2, 3, 7, 8, 11, 12, 13, 14, 17, 18
32	Hartshorne (1993) / Zakahi & Duran (1982) F. 1	2, 3, 4, 7, 10, 13, 14, 16, 19, 20
33	Hartshorne (1993) / Zakahi & Duran (1982) F. 2	1, 5, 6, 8, 9, 11, 12, 15, 17, 18
34	Hawkley et al. (2005) Complete F. 1	2, 3, 4, 7, 11, 12, 13, 14, 17, 18

*Table S1 continues*

**Table S1***Table S1 continued*

No.	Scale/Subscale	RULS item number
35	Knight et al. (1988) A	1, 2, 4, 6, 7, 8, 11, 16, 18, 19
36	Knight et al. (1988) B	3, 5, 9, 10, 12, 13, 14, 15, 17, 20
37	McWhirter (1990) F. 1	2, 3, 7, 8, 11, 12, 13, 14, 17, 18
38	Russell (1996) 10-item	2, 6, 10, 11, 13, 14, 16, 18, 19, 20
39	Russell et al. (1980) positive items	1, 4, 5, 6, 9, 10, 15, 16, 19, 20

Note. F – Factor; RULS – Revised UCLA Loneliness Scale. \*Bifactorial versions as showed by Panayiotou et al. (2023).

**Table S2***Results for models from Table S1*

No.	<i>n</i>	s. $\chi^2$	s. <i>p</i>	r. CFI	SRMR	AVE	CR	r. RMSEA (r. CI)	$\alpha$
4 items (s. <i>df</i> = 2)									
1	329	<b>0.265</b>	<b>.876</b>	<b>1.000</b>	<b>0.005</b>	<b>0.61</b>	<b>0.81</b>	0.000 (0.000-0.070)	.80
	525	7.186	.028	<b>0.993</b>	<b>0.018</b>	<b>0.63</b>	<b>0.82</b>	0.083 (0.022-0.153)	.81
	623	<b>0.077</b>	<b>.962</b>	<b>1.000</b>	<b>0.002</b>	<b>0.62</b>	<b>0.82</b>	0.000 (0.000-0.000)	.81
2	329	<b>1.567</b>	<b>.457</b>	<b>1.000</b>	<b>0.021</b>	<b>0.51</b>	0.71	0.000 (0.000-0.182)	.68
	525	<b>1.487</b>	<b>.475</b>	<b>1.000</b>	<b>0.015</b>	<b>0.54</b>	0.73	0.000 (0.000-0.148)	.70
	623	<b>3.125</b>	<b>.210</b>	<b>0.992</b>	<b>0.023</b>	0.43	0.63	0.058 (0.000-0.163)	.60
3	329	<b>1.796</b>	<b>.407</b>	<b>1.000</b>	<b>0.014</b>	<b>0.58</b>	0.79	0.000 (0.000-0.133)	.77
	525	8.407	.015	<b>0.988</b>	<b>0.025</b>	<b>0.57</b>	0.79	0.100 (0.037-0.173)	.76
	623	<b>4.388</b>	<b>.111</b>	<b>0.998</b>	<b>0.014</b>	<b>0.58</b>	0.79	0.042 (0.000-0.109)	.78
4	329	25.854	< .001	0.908	<b>0.064</b>	0.43	0.65	0.203 (0.130-0.287)	.62
	525	36.806	< .001	0.902	<b>0.064</b>	0.44	0.69	0.219 (0.155-0.289)	.65
	623	50.344	< .001	0.894	<b>0.062</b>	0.46	0.72	0.238 (0.183-0.299)	.68
5	329	<b>0.335</b>	<b>.846</b>	<b>1.000</b>	<b>0.005</b>	<b>0.71</b>	<b>0.82</b>	0.000 (0.000-0.113)	.80
	525	<b>3.479</b>	<b>.176</b>	<b>0.999</b>	<b>0.008</b>	<b>0.76</b>	<b>0.86</b>	0.041 (0.000-0.125)	.84
	623	6.938	.031	<b>0.994</b>	<b>0.015</b>	<b>0.68</b>	<b>0.80</b>	0.086 (0.024-0.158)	.79
6	329	18.021	< .001	<b>0.952</b>	<b>0.060</b>	<b>0.62</b>	0.73	0.255 (0.140-0.388)	.68
	525	<b>6.592</b>	<b>.037</b>	<b>0.989</b>	<b>0.021</b>	<b>0.64</b>	0.73	0.112 (0.036-0.201)	.72
	623	<b>2.106</b>	<b>.349</b>	<b>0.999</b>	<b>0.012</b>	<b>0.59</b>	0.69	0.038 (0.000-0.128)	.67
7	329	<b>2.588</b>	<b>.274</b>	<b>0.999</b>	<b>0.015</b>	<b>0.56</b>	0.78	0.024 (0.000-0.125)	.77
	525	<b>3.122</b>	<b>.210</b>	<b>0.998</b>	<b>0.013</b>	<b>0.57</b>	0.79	0.037 (0.000-0.112)	.77
	623	<b>4.137</b>	<b>.126</b>	<b>0.994</b>	<b>0.015</b>	<b>0.56</b>	0.78	0.067 (0.000-0.139)	.77
8	329	<b>3.723</b>	<b>.155</b>	<b>0.983</b>	<b>0.037</b>	0.42	0.64	0.086 (0.000-0.233)	.59
	525	<b>2.301</b>	<b>.317</b>	<b>0.996</b>	<b>0.021</b>	0.50	0.70	0.046 (0.000-0.169)	.65
	623	<b>1.134</b>	<b>.567</b>	<b>1.000</b>	<b>0.013</b>	0.42	0.63	0.000 (0.000-0.104)	.59

*Table S2 continues*

**Table S2***Table S2 continued*

No.	<i>n</i>	s. $\chi^2$	s. <i>p</i>	r. CFI	SRMR	AVE	CR	r. RMSEA (r. CI)	$\alpha$
9	329	<b>4.333</b>	<b>.115</b>	<b>0.982</b>	<b>0.042</b>	0.43	0.70	0.086 (0.000-0.217)	.59
	525	7.08	.029	<b>0.972</b>	<b>0.040</b>	0.47	0.71	0.121 (0.027-0.228)	.64
	623	18.992	< .001	0.915	<b>0.062</b>	0.41	0.68	0.187 (0.113-0.272)	.61
5 items (s. <i>df</i> = 5)									
10	329	<b>3.121</b>	<b>.681</b>	<b>1.000</b>	<b>0.013</b>	<b>0.67</b>	<b>0.83</b>	0.000 (0.000-0.085)	.81
	525	<b>7.758</b>	<b>.170</b>	<b>0.996</b>	<b>0.012</b>	<b>0.74</b>	<b>0.88</b>	0.055 (0.000-0.112)	.87
	623	24.872	< .001	<b>0.98</b>	<b>0.023</b>	<b>0.68</b>	<b>0.84</b>	0.116 (0.074-0.163)	.84
11	329	<b>7.682</b>	<b>.175</b>	<b>0.985</b>	<b>0.039</b>	0.44	0.69	0.065 (0.000-0.15)	.68
	525	<b>7.405</b>	<b>.192</b>	<b>0.998</b>	<b>0.027</b>	0.48	0.72	0.027 (0.000-0.109)	.69
	623	16.144	.006	0.942	<b>0.042</b>	0.39	0.63	0.113 (0.063-0.167)	.59
12	329	<b>3.338</b>	<b>.648</b>	<b>1.000</b>	<b>0.025</b>	0.44	0.67	0.000 (0.000-0.104)	.64
	525	<b>7.019</b>	<b>.219</b>	<b>0.997</b>	<b>0.026</b>	0.45	0.67	0.030 (0.000-0.109)	.63
	623	12.493	.029	<b>0.986</b>	<b>0.034</b>	0.37	0.61	0.053 (0.000-0.112)	.57
13	329	13.12	.022	<b>0.962</b>	<b>0.048</b>	0.49	0.70	0.117 (0.041-0.196)	.68
	525	13.206	.022	<b>0.972</b>	<b>0.032</b>	<b>0.52</b>	0.74	0.105 (0.052-0.163)	.71
	623	<b>10.769</b>	<b>.056</b>	<b>0.980</b>	<b>0.032</b>	0.45	0.67	0.076 (0.021-0.132)	.64
14	329	24.365	< .001	<b>0.960</b>	<b>0.047</b>	0.44	0.74	0.106 (0.061-0.155)	.72
	525	40.715	< .001	0.940	<b>0.049</b>	0.47	0.77	0.142 (0.105-0.184)	.74
	623	55.945	< .001	0.945	<b>0.048</b>	0.47	0.77	0.135 (0.102-0.170)	.75
15	329	20.379	.001	0.943	<b>0.047</b>	<b>0.56</b>	0.77	0.161 (0.094-0.234)	.75
	525	25.378	< .001	<b>0.956</b>	<b>0.037</b>	<b>0.63</b>	0.82	0.163 (0.112-0.219)	.80
	623	61.627	< .001	0.920	<b>0.058</b>	<b>0.54</b>	0.75	0.189 (0.150-0.231)	.73
16	329	26.638	< .001	0.928	<b>0.051</b>	<b>0.53</b>	<b>0.81</b>	0.173 (0.118-0.233)	.78
	525	67.345	< .001	0.917	<b>0.057</b>	<b>0.53</b>	<b>0.81</b>	0.186 (0.146-0.229)	.77
	623	16.187	.006	<b>0.988</b>	<b>0.025</b>	<b>0.51</b>	0.79	0.067 (0.027-0.109)	.78
17	329	15.964	.007	<b>0.972</b>	<b>0.032</b>	<b>0.60</b>	<b>0.84</b>	0.120 (0.062-0.182)	.83
	525	32.447	< .001	<b>0.965</b>	<b>0.036</b>	<b>0.60</b>	<b>0.84</b>	0.135 (0.093-0.180)	.83
	623	44.44	< .001	<b>0.976</b>	<b>0.036</b>	<b>0.60</b>	<b>0.84</b>	0.110 (0.075-0.149)	.83
18	329	<b>6.509</b>	<b>.260</b>	<b>0.990</b>	<b>0.035</b>	0.48	0.74	0.057 (0.000-0.150)	.71
	525	<b>10.136</b>	<b>.071</b>	<b>0.986</b>	<b>0.025</b>	<b>0.54</b>	0.78	0.075 (0.000-0.142)	.75
	623	<b>6.343</b>	<b>.274</b>	<b>0.984</b>	<b>0.027</b>	0.43	0.69	0.064 (0.000-0.124)	.66
19	329	17.893	.003	<b>0.978</b>	<b>0.035</b>	<b>0.68</b>	<b>0.84</b>	0.128 (0.042-0.216)	.82
	525	30.405	< .001	<b>0.974</b>	<b>0.031</b>	<b>0.70</b>	<b>0.86</b>	0.139 (0.093-0.191)	.84
	623	24.868	< .001	<b>0.982</b>	<b>0.026</b>	<b>0.61</b>	<b>0.80</b>	0.102 (0.066-0.141)	.79
20	329	13.383	.020	<b>0.982</b>	<b>0.029</b>	<b>0.57</b>	<b>0.83</b>	0.094 (0.039-0.153)	.82
	525	22.8	< .001	<b>0.986</b>	<b>0.029</b>	<b>0.60</b>	<b>0.84</b>	0.087 (0.048-0.129)	.83
	623	41.073	< .001	<b>0.962</b>	<b>0.037</b>	<b>0.56</b>	<b>0.82</b>	0.132 (0.098-0.170)	.81

*Table S2 continues*

**Table S2***Table S2 continued*

No.	<i>n</i>	s. $\chi^2$	s. <i>p</i>	r. CFI	SRMR	AVE	CR	r. RMSEA (r. CI)	$\alpha$
6 items (s. <i>df</i> = 9)									
21	329	<b>15.76</b>	<b>.072</b>	<b>0.983</b>	<b>0.046</b>	0.44	0.74	0.059 (0.000-0.123)	.71
	525	19.318	.023	<b>0.980</b>	<b>0.033</b>	0.50	0.78	0.072 (0.021-0.119)	.75
	623	27.646	.001	<b>0.953</b>	<b>0.042</b>	0.39	0.69	0.089 (0.052-0.127)	.66
22	329	<b>12.241</b>	<b>.200</b>	<b>0.993</b>	<b>0.025</b>	<b>0.57</b>	<b>0.84</b>	0.051 (0.000-0.104)	.84
	525	34.745	< .001	<b>0.968</b>	<b>0.034</b>	<b>0.59</b>	<b>0.86</b>	0.110 (0.078-0.146)	.85
	623	<b>9.727</b>	<b>.373</b>	<b>0.999</b>	<b>0.016</b>	<b>0.56</b>	<b>0.84</b>	0.016 (0.000-0.057)	.83
23	329	19.445	.022	<b>0.974</b>	<b>0.039</b>	0.44	0.77	0.073 (0.027-0.117)	.75
	525	21.119	.012	<b>0.983</b>	<b>0.027</b>	0.47	<b>0.80</b>	0.062 (0.029-0.096)	.78
	623	19.121	.024	<b>0.988</b>	<b>0.024</b>	0.44	0.78	0.049 (0.014-0.082)	.76
24	329	22.332	.008	<b>0.973</b>	<b>0.032</b>	<b>0.60</b>	<b>0.87</b>	0.101 (0.057-0.148)	.85
	525	48.491	< .001	<b>0.959</b>	<b>0.038</b>	<b>0.61</b>	<b>0.87</b>	0.127 (0.096-0.160)	.86
	623	48.12	< .001	<b>0.981</b>	<b>0.031</b>	<b>0.60</b>	<b>0.86</b>	0.084 (0.058-0.113)	.85
25	329	66.364	< .001	0.914	<b>0.060</b>	<b>0.52</b>	<b>0.84</b>	0.156 (0.119-0.196)	.81
	525	162.348	< .001	0.887	<b>0.070</b>	<b>0.56</b>	<b>0.87</b>	0.195 (0.166-0.226)	.84
	623	161.077	< .001	0.897	<b>0.067</b>	<b>0.54</b>	<b>0.86</b>	0.179 (0.152-0.208)	.83
7 items (s. <i>df</i> = 14)									
26	329	54.519	< .001	0.939	<b>0.047</b>	<b>0.54</b>	<b>0.86</b>	0.124 (0.092-0.158)	.84
	525	118.174	< .001	0.933	<b>0.052</b>	<b>0.55</b>	<b>0.87</b>	0.135 (0.111-0.160)	.85
	623	97.365	< .001	0.947	<b>0.046</b>	<b>0.52</b>	<b>0.85</b>	0.112 (0.090-0.135)	.83
8 items (s. <i>df</i> = 20)									
27	329	51.676	< .001	<b>0.955</b>	<b>0.048</b>	<b>0.51</b>	<b>0.86</b>	0.095 (0.066-0.126)	.84
	525	110.764	< .001	0.942	<b>0.049</b>	<b>0.53</b>	<b>0.87</b>	0.112 (0.091-0.134)	.85
	623	107.081	< .001	<b>0.957</b>	<b>0.046</b>	0.49	<b>0.85</b>	0.090 (0.072-0.109)	.83
28	329	104.381	< .001	0.900	<b>0.074</b>	0.46	<b>0.84</b>	0.133 (0.105-0.162)	.81
	525	201.16	< .001	0.875	<b>0.068</b>	<b>0.53</b>	<b>0.88</b>	0.162 (0.138-0.187)	.84
	623	250.608	< .001	0.861	<b>0.077</b>	0.48	<b>0.87</b>	0.159 (0.137-0.181)	.82
29	329	96.537	< .001	0.891	<b>0.058</b>	<b>0.58</b>	<b>0.86</b>	0.172 (0.133-0.212)	.83
	525	114.044	< .001	0.918	<b>0.051</b>	<b>0.61</b>	<b>0.88</b>	0.152 (0.123-0.182)	.85
	623	173.138	< .001	0.916	<b>0.057</b>	<b>0.53</b>	<b>0.83</b>	0.136 (0.113-0.160)	.81
9 items (s. <i>df</i> = 27)									
30	329	108.995	< .001	0.886	<b>0.058</b>	<b>0.57</b>	<b>0.87</b>	0.163 (0.130-0.197)	.85
	525	126.681	< .001	0.932	<b>0.047</b>	<b>0.62</b>	<b>0.89</b>	0.131 (0.106-0.156)	.87
	623	197.057	< .001	0.919	<b>0.054</b>	<b>0.54</b>	<b>0.85</b>	0.126 (0.106-0.147)	.83

*Table S2 continues*

**Table S2***Table S2 continued*

No.	<i>n</i>	s. $\chi^2$	s. <i>p</i>	r. CFI	SRMR	AVE	CR	r. RMSEA (r. CI)	$\alpha$
10 items (s. <i>df</i> = 35)									
31	329	116.924	< .001	0.912	<b>0.053</b>	0.50	<b>0.88</b>	0.116 (0.095-0.137)	.86
	525	244.794	< .001	0.899	<b>0.060</b>	<b>0.51</b>	<b>0.89</b>	0.127 (0.111-0.143)	.87
	623	226.369	< .001	0.910	<b>0.053</b>	0.50	<b>0.89</b>	0.116 (0.102-0.130)	.87
32	329	434.577	< .001	0.704	0.107	<b>0.53</b>	<b>0.88</b>	0.244 (0.221-0.267)	.86
	525	551.121	< .001	0.778	0.102	<b>0.58</b>	<b>0.93</b>	0.213 (0.194-0.232)	.87
	623	731.458	< .001	0.733	0.111	<b>0.51</b>	<b>0.90</b>	0.212 (0.196-0.228)	.85
33	329	142.215	< .001	0.832	<b>0.076</b>	0.42	<b>0.84</b>	0.137 (0.114-0.161)	.80
	525	248.927	< .001	0.836	<b>0.076</b>	0.44	<b>0.86</b>	0.142 (0.123-0.162)	.81
	623	344.196	< .001	0.798	0.084	0.39	<b>0.84</b>	0.142 (0.126-0.159)	.78
34	329	151.314	< .001	0.904	<b>0.059</b>	<b>0.54</b>	0.90	0.129 (0.108-0.150)	.89
	525	350.255	< .001	0.886	<b>0.066</b>	<b>0.56</b>	0.92	0.144 (0.128-0.159)	.89
	623	324.187	< .001	0.897	<b>0.059</b>	<b>0.54</b>	0.91	0.133 (0.119-0.147)	.89
35	329	237.668	< .001	0.804	0.093	0.44	<b>0.85</b>	0.157 (0.135-0.180)	.81
	525	389.093	< .001	0.798	0.084	0.48	<b>0.88</b>	0.170 (0.152-0.188)	.83
	623	459.068	< .001	0.785	0.096	0.43	<b>0.88</b>	0.162 (0.146-0.179)	.81
36	329	205.882	< .001	0.804	0.082	0.47	<b>0.86</b>	0.170 (0.149-0.192)	.84
	525	337.071	< .001	0.836	<b>0.075</b>	<b>0.53</b>	<b>0.89</b>	0.168 (0.150-0.187)	.85
	623	403.703	< .001	0.785	0.087	0.46	<b>0.86</b>	0.171 (0.156-0.187)	.82
37	329	116.924	< .001	0.912	<b>0.053</b>	0.50	<b>0.88</b>	0.116 (0.095-0.137)	.86
	525	244.794	< .001	0.899	<b>0.060</b>	<b>0.51</b>	<b>0.89</b>	0.127 (0.111-0.143)	.87
	623	226.369	< .001	0.910	<b>0.053</b>	0.50	<b>0.89</b>	0.116 (0.102-0.130)	.87
38	329	365.956	< .001	0.743	0.095	<b>0.55</b>	<b>0.88</b>	0.230 (0.207-0.253)	.86
	525	477.231	< .001	0.800	0.090	<b>0.58</b>	0.92	0.203 (0.184-0.222)	.87
	623	570.252	< .001	0.748	0.106	<b>0.51</b>	0.90	0.201 (0.185-0.218)	.84
39	329	133.622	< .001	0.861	<b>0.065</b>	<b>0.54</b>	<b>0.86</b>	0.164 (0.136-0.192)	.84
	525	137.657	< .001	0.930	<b>0.046</b>	<b>0.58</b>	<b>0.88</b>	0.119 (0.098-0.141)	.86
	623	215.24	< .001	0.913	<b>0.053</b>	0.50	<b>0.84</b>	0.118 (0.101-0.136)	.82

*Note.* s – scaled; r – robust; AVE – average variance extracted; CR – construct reliability, CI – confidence interval. The indicators that conform to the selection criteria are presented in bold.

## APPENDIX A

## DOS-RULS

*Instrucciones: Indicá la frecuencia con que cada una de las afirmaciones te describe*

	Frecuentemente	Algunas veces	Raras veces	Nunca
1 Me siento cercano/a a algunas personas				
2 Puedo encontrar compañía cuando la necesito				
3 Hay personas que realmente me comprenden				
4 Hay personas con las que puedo hablar y comunicarme				
5 Hay personas a las que puedo recurrir				

*Note.* This text is based on a modification of the article "RULS: Escala de Soledad UCLA Revisada. Fiabilidad y validez de una versión española" [RULS: Revised UCLA Loneliness Scale. Reliability and validity of a Spanish version] by Vázquez Morejón, A. J., & Jiménez García-Bóveda, R. (1994). The original work is available at <http://hdl.handle.net/10045/97430> and is licensed under CC BY 4.0 (<https://creativecommons.org/licenses/by/4.0/>).

APPENDIX B

**DOS-RULS**

*Directions: Indicate how often you feel the way described in each of the following statements*

	Often	Sometimes	Rarely	Never
1 There are people I feel close to				
2 I can find companionship when I want it				
3 There are people who really understand me				
4 There are people I can talk to				
5 There are people I can turn to				

*Note.* This scale is based on the items, items' scale, and directions of the Revised UCLA Loneliness Scale from Russell, D., Peplau, L. A., & Cutrona, C. E. (1980). The revised UCLA Loneliness Scale: Concurrent and discriminant validity evidence. *Journal of Personality and Social Psychology*, 39, 472–480. <https://doi.org/10.1037/0022-3514.39.3.472>