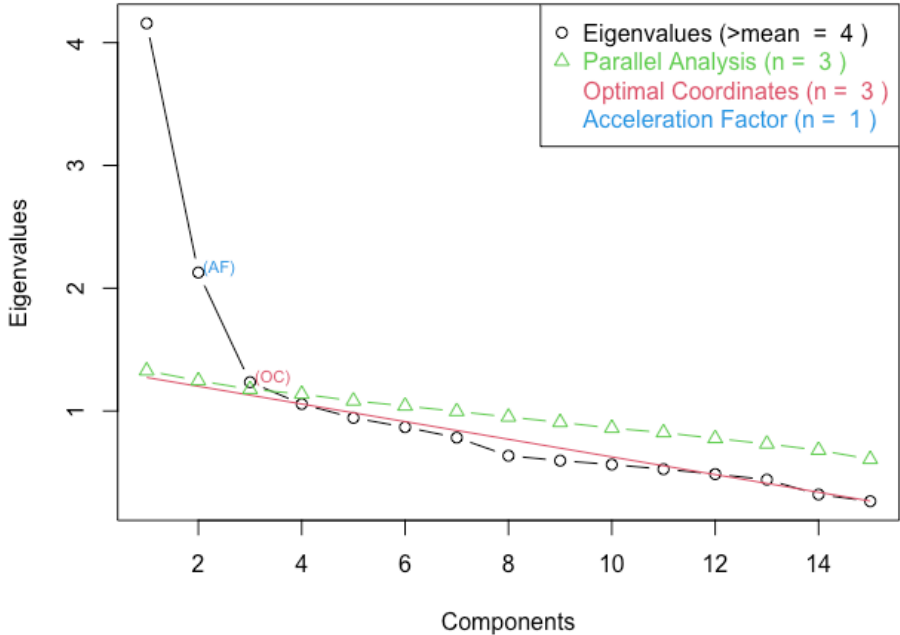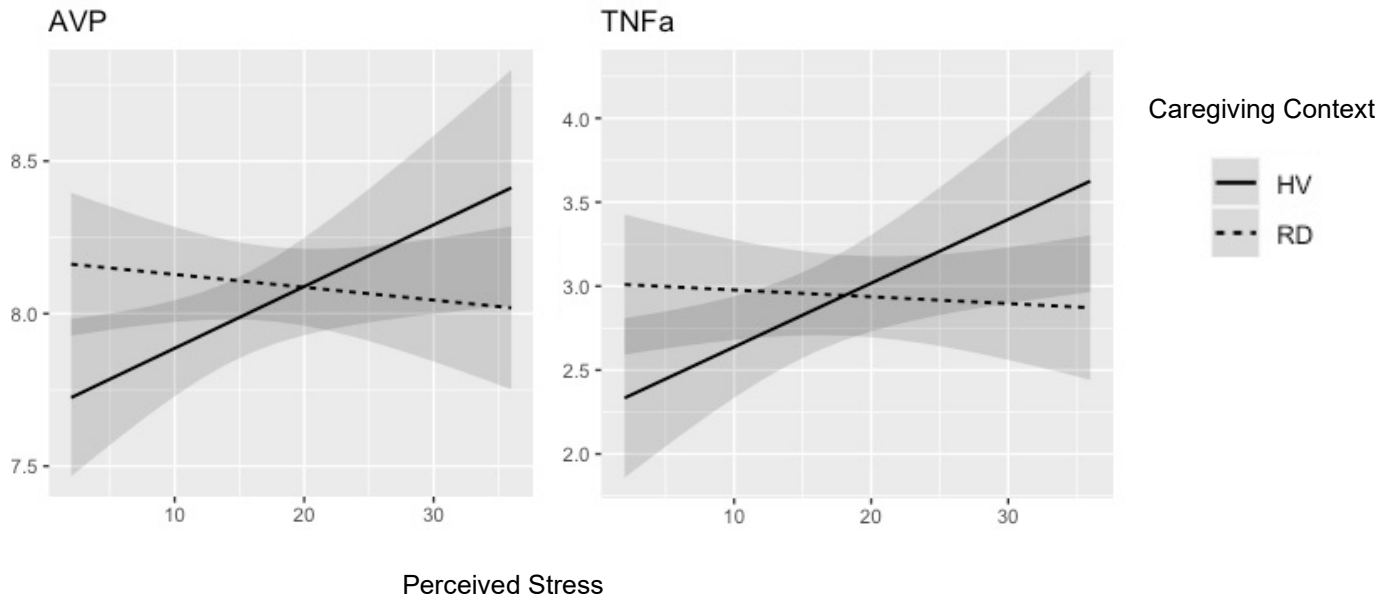Supplemental Figure 1: Graphical Representations of Exploratory Factor Analysis
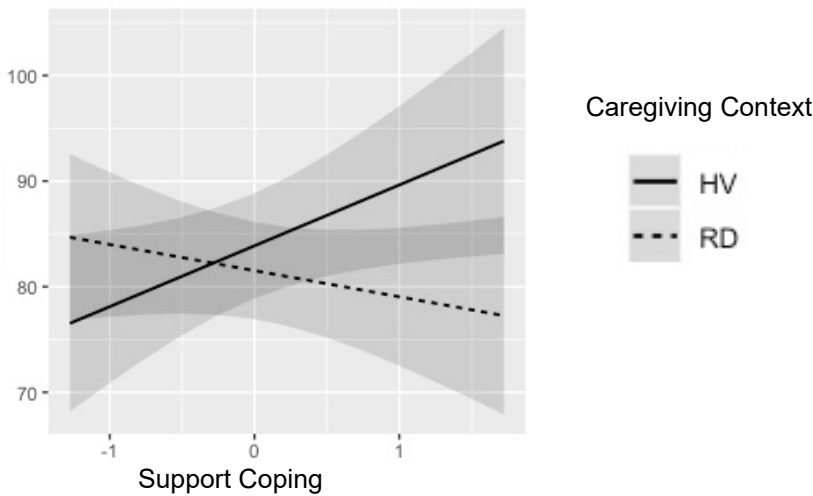
Supplemental Figure 2: Links of Stress to Health by Context

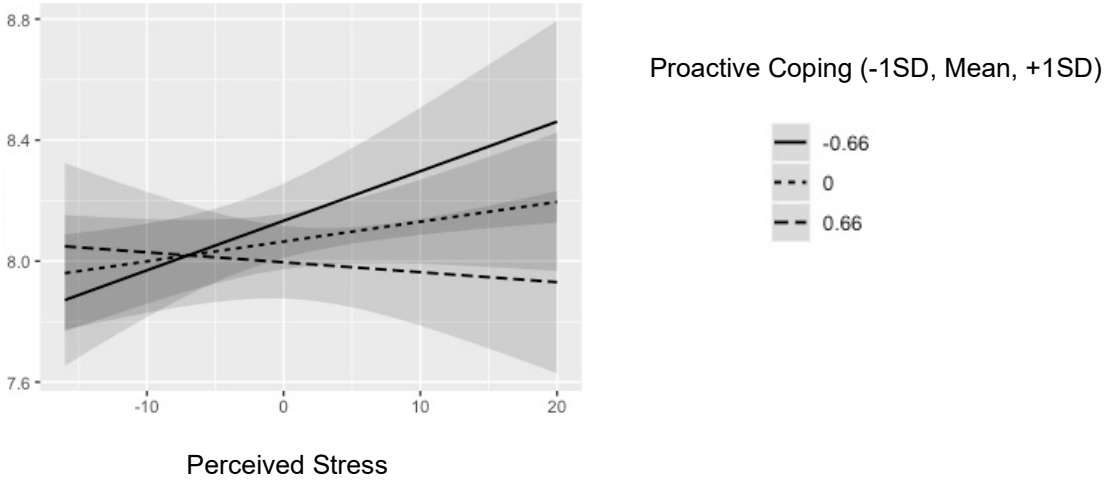*Note: AVP refers to arginine vasopressin and TNFa refers to tumor necrosis factor alpha. Under caregiving context, HV refers to healthy volunteer or typically developing context; RD refers to rare disease.*

Supplemental Figure 3: Links of Support Coping to Self-Rated Health by Caregiving Context

Note: HV refers to healthy volunteer or typically developing context; RD refers to rare disease.

Supplemental Figure 4: Moderation of Stress by Proactive Coping to Arginine Vasopressin

Proactive Coping (-1SD, Mean, +1SD)

—— -0.66

----- 0

– – 0.66

Perceived Stress

Supplemental Table 1: Demographics for Full Sample

	Rare and Undiagnosed Diseases (Child *n* = 142) (Caregiver *n* = 305)	Typically Developing (Child *n* = 63) (Caregiver *n* = 99)	Total (Child *n* = 205) (Caregiver *n* = 404)
Caregiver Gender (%)			
Woman	211 (69.2%)	64 (64.6%)	275 (68.1%)
Man	91 (29.8%)	34 (34.3)	125 (30.9%)
Missing	3 (1.0%)	1 (1.0%)	4 (1.0%)
Care Recipient Gender (%)			
Girl	60 (42.3%)	38 (60.3%)	98 (47.8%)
Boy	82 (57.7%)	23 (38.1%)	106 (51.7%)
Missing	0 (0.0%)	1 (1.6%)	1 (0.5%)
Caregiver Age (Mean, SD)	44.0 (12.5)	43.1 (11.5)	43.8 (12.3)
Care Recipient Age (Mean, SD)	10.9 (9.86)	7.62 (4.42)	9.88 (8.68)
Education (%)			
Less Than HS	5 (1.6%)	1 (1.0%)	6 (1.5%)
HS Diploma/GED/Technical	44 (14.4%)	9 (9.1%)	53 (13.1%)
Some College	62 (20.3%)	17 (17.2%)	79 (19.6%)
Bachelor's Degree	113 (37.0%)	28 (28.3%)	141 (34.9%)
Post-Grad Degree	75 (24.6%)	43 (43.4%)	118 (29.2%)
Missing	6 (2.0%)	1 (1.0%)	7 (1.7%)
Marital Status (%)			
Married/Cohabitating	251 (82.3%)	74 (74.7%)	325 (80.4%)
Not Married	45 (14.8%)	24 (24.2%)	69 (17.1%)
Missing	9 (3.0%)	1 (1.0%)	10 (2.5%)
Relationship to CR (%)			
Parent	213 (69.8%)	76 (76.8%)	289 (71.5%)
Grandparent	41 (13.4%)	13 (13.1%)	54 (13.4%)
Other	51 (16.7%)	10 (10.1%)	61 (15.1%)
Caregiver Race/Ethnicity (%)			
American Indian/Alaskan Native	2 (0.7%)	1 (1.0%)	3 (0.7%)
Asian	9 (3.0%)	13 (13.1%)	22 (5.4%)
Black or African American	5 (1.6%)	14 (14.1%)	19 (4.7%)
Native Hawaiian/Pacific Islander	0 (0%)	1 (1.0%)	1 (0.2%)
Other	14 (4.6%)	8 (8.1%)	22 (5.4%)
White	271 (88.9%)	60 (60.6%)	331 (81.9%)
Missing	4 (1.3%)	2 (2.0%)	6 (1.5%)
Perceived Stress	16.20 (7.43)	13.70 (7.30)	15.60 (7.47)
Coping Style			
Proactive Coping	2.61 (.66)	2.30 (.84)	2.54 (.71)
Avoidant Coping	1.62 (.50)	1.59 (.53)	1.62 (.51)
Support Coping	2.29 (.78)	2.20 (.87)	2.27 (.80)

Supplemental Table 2. Correlation Matrix of Primary Study Variables

Variable	1	2	3	4	5	6	7
1. Stress							
2. Proactive Coping	**.28**** [.13, .41]						
3. Avoidant Coping	**.58**** [.47, .68]	**.43**** [.30, .55]					
4. Support Coping	.13 [-.03, .27]	**.50**** [.37, .61]	**.20*** [.05, .34]				
5. log CRP	.03 [-.12, .19]	-.09 [-.24, .07]	-.01 [-.16, .14]	-.10 [-.25, .05]			
6. log TNFa	.07 [-.09, .22]	-.09 [-.24, .06]	-.05 [-.20, .11]	-.07 [-.22, .08]	.05 [-.11, .20]		
7. log AVP	.11 [-.04, .26]	-.04 [-.19, .11]	.05 [-.10, .20]	**-.15*** [-.30, -.00]	**.18*** [.03, .32]	**.52**** [.40, .62]	
8. SRH	**-.30**** [-.43, -.15]	-.08 [-.23, .07]	**-.30**** [-.43, -.15]	.01 [-.15, .16]	**-.22**** [-.36, -.07]	.05 [-.10, .20]	-.06 [-.21, .09]

Note. M and SD are used to represent mean and standard deviation, respectively. Values in square brackets indicate the 95% confidence interval for each correlation. * indicates $p < .05$. ** indicates $p < .01$.

Supplemental Table 3. Factor Analysis of BriefCope in Caregiving

	Factor 1 Proactive Coping	Factor 2 Avoidant Coping	Factor 3 Support Coping
Acceptance	.57*	-.08	.02
Active Coping	.71*	.05	.04
Planning	.86*	.20	-.14
Reframing	.53*	-.01	.09
Religion	.40*	-.11	.02
Behavioral Disengagement	-.05	.72*	-.18
Denial	-.04	.45*	-.05
Distraction	.22	.50*	.07
Blame	.21	.67*	-.14
Venting	.05	.44*	.31
Substance Use	-.13	.38	.05
Humor	.03	.28	.22
Use of Emotional Support	-.05	-.16	.93*
Use of Instrumental Support	.09	-.06	.75*

*Note: * refers to a factor loading of >.40*