PICK Pilot Mixed Methods Evaluation

Preliminary Quantitative Analyses and Results

27 June 2018

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1 Data Summary

1.1 Means and Standard Deviations. Also Testing for Difference in Analytic Sample vs. Full Sample.

Age_Decades Age_Groups 18-30	18 (30.5%)	TRUE n = 129 3.67 (1.18)	P-Value
Age_Groups	3.87 (1.37) 18 (30.5%)		0.348
Age_Groups	18 (30.5%)	3.67 (1.18)	0.348
	18 (30.5%)	3.67 (1.18)	
18-30			0.555
	0 (45 0%)	49 (38%)	
31-40	9 (15.3%)	31 (24%)	
41-50	12 (20.3%)	29 (22.5%)	
51+	12 (20.3%)	20 (15.5%)	
NA	8 (13.6%)	0 (0%)	
Ethnic_Code			0.737
Caucasian	34 (57.6%)	89 (69%)	
Hispanic/Latino	11 (18.6%)	21 (16.3%)	
Other	7 (11.9%)	19 (14.7%)	
NA	7 (11.9%)	0 (0%)	
Education_3cat			0.852
High school graduate/GED/No degree	19 (32.2%)	55 (42.6%)	
Some college	12 (20.3%)	29 (22.5%)	
Tech./College/Grad Degree	19 (32.2%)	45 (34.9%)	
NA	9 (15.3%)	0 (0%)	
Income_10K			0.399
	2.01 (2.13)	1.72 (1.60)	
Gender			0.821
Male	9 (15.3%)	23 (17.8%)	
Female	50 (84.7%)	106 (82.2%)	
NA	0 (0%)	0 (0%)	
Divorced_Dichotomous			0.319
Never Divorced	14 (23.7%)	63 (48.8%)	
Divorced	23 (39%)	66 (51.2%)	
NA	22 (37.3%)	0 (0%)	
FinancialWorry_cat			0.302
Never, Once in a While, Hardly Ever	16 (27.1%)	24 (18.6%)	
Often	18 (30.5%)	44 (34.1%)	
Almost all the time	22 (37.3%)	61 (47.3%)	
NA	3 (5.1%)	0 (0%)	
Prior_RshpEducation_collapsed			0.644
None	24 (40.7%)	65 (50.4%)	
Some/A lot	29 (49.2%)		
NA	6 (10.2%)		

Number_Attended One Session Two Sessions Three Sessions NA Dosage	23 (39%) 11 (18.6%) 22 (37.3%) 3 (5.1%)		0.536
Partial Full NA	34 (57.6%) 22 (37.3%) 3 (5.1%)		
Healthy_Rel_Skills_Change	1.23 (1.10)	1.29 (0.98)	0.731
Partner_Selection_Change		1.70 (1.16)	0.513
Past_Rel_Behav_Change			0.349
Rel_Behav_Attit_Change		1.15 (0.94)	0.191
Healthy_Rel_Before.n	0.78 (0.93)	1.00 (0.95)	0.201
Communicate_Before.n	3.27 (1.09)	3.03 (1.03)	0.351
-	3.43 (1.11)	3.26 (0.91)	
ConflictManagement_Before.n	3.34 (1.11)	3.14 (0.96)	0.312
Healthy_Rel.n	4.52 (0.62)	4.52 (0.56)	0.959
Communicate.n	4.55 (0.54)	4.44 (0.63)	0.249
ConflictManagement.n			0.879
RightPartner_Before.n		4.33 (0.70)	0.1
LearnPartner_Before.n	3.09 (1.16)	2.76 (1.00)	0.093
PaceRelationship_Before.n	3.20 (1.24)	2.83 (1.04)	0.33
WarningSigns_Before.n	2.98 (1.24)	2.77 (1.05)	0.243
	3.17 (1.25)	2.91 (1.07)	
RightPartner.n	4.45 (0.72)	4.41 (0.67)	0.786
LearnPartner.n	4.57 (0.75)	4.58 (0.61)	0.917
PaceRelationship.n		4.53 (0.64)	0.165
WarningSigns.n			0.426
LearnedGrowingUp_Before.n	4.64 (0.53)	4.56 (0.62)	0.201
PastRelationships_Before.n	3.60 (1.17)	3.33 (1.02)	0.295

GetAlongParents_Before.n	3.54 (1.16)	3.32 (1.06)	0.327
_	3.70 (1.20)	3.49 (1.11)	
FriendshipsAreLike_Before.n	3.64 (1.19)	3.38 (1.10)	0.204
LearnedGrowingUp.n			0.632
PastRelationships.n	4.46 (0.79)	4.52 (0.62)	0.383
GetAlongParents.n	4.45 (0.92)	4.58 (0.74)	0.901
· ·	4.50 (0.76)	4.52 (0.71)	
FriendshipsAreLike.n	4.58 (0.73)	4.52 (0.73)	0.599
Fights_Before.n	2 74 (1 00)	3.52 (1.11)	0.256
FeelingsHurt_Before.n			0.077
RightandWrong_Before.n	3.88 (1.06)	3.54 (1.02)	0.547
9	3.86 (1.16)	3.74 (0.91)	0.040
Fights.n	4.45 (0.96)	4.52 (0.81)	0.648
FeelingsHurt.n	4.62 (0.70)	4.62 (0.64)	0.965
RightandWrong.n			0.738
In Analysis Sample	4.64 (0.75)	4.68 (0.59)	<.001
FALSE TRUE	59 (100%) 0 (0%)	0 (0%) 129 (100%)	
NA	0 (0%)	0 (0%)	

1.2 Testing for Difference in a Larger Analytic Sample (Restricted to complete cases on significant predictors only and at least one outcome) vs. Full Sample.

Warning in chisq.test(d\$split, d[[i]]): Chi-squared approximation may be incorrect

Warning in chisq.test(dsplit, d[[i]]): Chi-squared approximation may be incorrect

Warning in chisq.test(d\$split, d[[i]]): Chi-squared approximation may be incorrect

In Larger Analysis Sample FALSE TRUE P-Value n = 30n = 158Age_Decades 0.065 4.16 (1.29) 3.65 (1.22) Age_Groups 0.066 5 (16.7%) 62 (39.2%) 18-30 31-40 5 (16.7%) 35 (22.2%) 10 (33.3%) 31 (19.6%) 41-50 51+ 7 (23.3%) 25 (15.8%) NA3 (10%) 5 (3.2%) Ethnic_Code 0.421 Caucasian 13 (43.3%) 110 (69.6%) Hispanic/Latino 6 (20%) 26 (16.5%) Other 4 (13.3%) 22 (13.9%) 7 (23.3%) 0 (0%) NAEducation_3cat 0.868 High school graduate/GED/No degree 10 (33.3%) 64 (40.5%) Some college 7 (23.3%) 34 (21.5%) Tech./College/Grad Degree 10 (33.3%) 54 (34.2%) 3 (10%) 6 (3.8%) NA $Income_10K$ 0.293 2.29 (2.63) 1.71 (1.56) Gender 0.395 Male 3 (10%) 29 (18.4%) 27 (90%) 129 (81.6%) Female NA 0 (0%) 0 (0%) Divorced_Dichotomous 0.273 Never Divorced 9 (30%) 68 (43%) Divorced 17 (56.7%) 72 (45.6%) NA4 (13.3%) 18 (11.4%) FinancialWorry_cat 0.988 Never, Once in a While, Hardly Ever 6 (20%) 34 (21.5%)

Often Almost all the time NA	10 (33.3%) 13 (43.3%) 1 (3.3%)		
Prior_RshpEducation_collapsed None Some/A lot NA	11 (36.7%) 13 (43.3%) 6 (20%)	78 (49.4%) 80 (50.6%) 0 (0%)	0.918
Number_Attended One Session Two Sessions Three Sessions	14 (46.7%) 4 (13.3%) 9 (30%)	53 (33.5%) 41 (25.9%) 64 (40.5%)	0.164
NA Dosage Partial Full NA	3 (10%) 18 (60%) 9 (30%) 3 (10%)	0 (0%) 94 (59.5%) 64 (40.5%) 0 (0%)	0.623
Healthy_Rel_Skills_Change	1.02 (1.14)	1.30 (0.99)	0.394
Partner_Selection_Change Past_Rel_Behav_Change	1.39 (1.60)	1.68 (1.16)	0.558
Rel_Behav_Attit_Change	0.83 (1.15)	1.13 (0.96)	0.684
Healthy_Rel_Before.n		0.96 (0.93)	0.131
Communicate_Before.n	3.56 (1.26) 3.44 (1.21)		0.638
ConflictManagement_Before.n		3.17 (0.98)	0.456
Healthy_Rel.n	4.45 (0.76)	4.53 (0.55)	0.671
ConflictManagement n	4.45 (0.60)	4.47 (0.61)	0.869
ConflictManagement.n RightPartner_Before.n	4.05 (1.09)	4.37 (0.68)	0.185
LearnPartner_Before.n		2.81 (1.01)	0.42
PaceRelationship_Before.n	3.21 (1.42) 3.21 (1.37)		0.27
WarningSigns_Before.n	3.14 (1.41)		0.645
RightPartner.n	4.37 (0.83)		0.761
LearnPartner.n	4.37 (1.01)	4.60 (0.59)	0.34

4.53 (0.61) 4.57 (0.61) WarningSigns.n
4.50 (0.61) 4.59 (0.60) LearnedGrowingUp_Before.n 0.725 3.54 (1.51) 3.39 (1.02)
3.54 (1.51) 3.39 (1.02)
0.00 (4.00) 0.05 (4.00)
3.62 (1.39) 3.35 (1.06) GetAlongParents_Before.n 0.576
3.77 (1.54) 3.52 (1.10)
FriendshipsAreLike_Before.n 0.591 3.64 (1.45) 3.42 (1.10)
LearnedGrowingUp.n 0.255
4.27 (1.03) 4.54 (0.60) PastRelationships.n 0.125
4.18 (1.18) 4.59 (0.72)
GetAlongParents.n 0.763 4.45 (0.96) 4.52 (0.69)
FriendshipsAreLike.n 0.759
4.48 (0.93) 4.54 (0.70) Fights_Before.n 0.679
3.43 (1.34) 3.58 (1.08)
FeelingsHurt_Before.n 0.968 3.64 (1.39) 3.63 (1.01)
RightandWrong_Before.n 0.725
3.64 (1.39) 3.78 (0.94) Fights.n 0.247
4.20 (1.24) 4.54 (0.78)
FeelingsHurt.n 0.593 4.52 (0.93) 4.64 (0.61)
RightandWrong.n 0.33
4.48 (0.98) 4.69 (0.57) In Larger Analysis Sample <.001
FALSE 30 (100%) 0 (0%)
TRUE 0 (0%) 158 (100%) NA 0 (0%) 0 (0%)

1.3 Categorical Outcomes: Means and Standard Deviations. Also Testing for Difference in Analytic Sample vs. Full Sample.

Warning in chisq.test(d\$split, d[[i]]): Chi-squared approximation may be incorrect Warning in chisq.test(d\$split, d[[i]]): Chi-squared approximation may be incorrect Warning in chisq.test(d\$split, d[[i]]): Chi-squared approximation may be incorrect Warning in chisq.test(d\$split, d[[i]]): Chi-squared approximation may be incorrect Warning in chisq.test(d\$split, d[[i]]): Chi-squared approximation may be incorrect Warning in chisq.test(d\$split, d[[i]]): Chi-squared approximation may be incorrect Warning in chisq.test(d\$split, d[[i]]): Chi-squared approximation may be incorrect Warning in chisq.test(d\$split, d[[i]]): Chi-squared approximation may be incorrect Warning in chisq.test(d\$split, d[[i]]): Chi-squared approximation may be incorrect Warning in chisq.test(d\$split, d[[i]]): Chi-squared approximation may be incorrect Warning in chisq.test(d\$split, d[[i]]): Chi-squared approximation may be incorrect Warning in chisq.test(d\$split, d[[i]]): Chi-squared approximation may be incorrect Warning in chisq.test(d\$split, d[[i]]): Chi-squared approximation may be Warning in chisq.test(d\$split, d[[i]]): Chi-squared approximation may be Warning in chisq.test(d\$split, d[[i]]): Chi-squared approximation may be incorrect

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Warning in chisq.test(dsplit, d[[i]]): Chi-squared approximation may be incorrect

Warning in chisq.test(d\$split, d[[i]]): Chi-squared approximation may be incorrect

In Analysis Sample3 FALSE TRUE P-Value n = 54n = 134Age_Decades 0.522 3.83 (1.36) 3.69 (1.20) Age_Groups 0.575 18-30 17 (31.5%) 50 (37.3%) 31-40 8 (14.8%) 32 (23.9%) 41-50 10 (18.5%) 31 (23.1%) 51+ 11 (20.4%) 21 (15.7%) 8 (14.8%) 0 (0%) NAEthnic_Code 0.909 32 (59.3%) 91 (67.9%) Caucasian 9 (16.7%) 23 (17.2%) Hispanic/Latino Other 6 (11.1%) 20 (14.9%) 7 (13%) 0 (0%) NA Education_3cat 0.854 High school graduate/GED/No degree 17 (31.5%) 57 (42.5%) Some college 11 (20.4%) 30 (22.4%) Tech./College/Grad Degree 17 (31.5%) 47 (35.1%) 9 (16.7%) 0 (0%) NAIncome 10K 0.538 1.97 (2.10) 1.74 (1.64) Gender 1 Male 9 (16.7%) 23 (17.2%) 45 (83.3%) 111 (82.8%) Female NA0 (0%) 0 (0%) Divorced_Dichotomous 0.355 12 (22.2%) 65 (48.5%) Never Divorced 20 (37%) 69 (51.5%) Divorced

NA	22 (40.7%)	0 (0%)	
FinancialWorry_cat			0.448
Never, Once in a While, Hardly Ever	14 (25.9%)	26 (19.4%)	
Often	17 (31.5%)		
Almost all the time	20 (37%)		
NA	3 (5.6%)		
Prior_RshpEducation_collapsed			1
None	23 (42.6%)	66 (49.3%)	
Some/A lot	25 (46.3%)	68 (50.7%)	
NA	6 (11.1%)	0 (0%)	
Number_Attended			0.237
One Session	21 (38.9%)	46 (34.3%)	
Two Sessions	8 (14.8%)	37 (27.6%)	
Three Sessions	22 (40.7%)	51 (38.1%)	
NA	3 (5.6%)	0 (0%)	
Dosage			0.643
Partial	29 (53.7%)	83 (61.9%)	
Full	22 (40.7%)	51 (38.1%)	
NA	3 (5.6%)	0 (0%)	
Healthy_Rel_Before.3c			0.612
3	23 (42.6%)	82 (61.2%)	
4	16 (29.6%)	43 (32.1%)	
5	3 (5.6%)	6 (4.5%)	
NA	12 (22.2%)	3 (2.2%)	
Communicate_Before.3c			0.094
3	18 (33.3%)	74 (55.2%)	
4	18 (33.3%)	49 (36.6%)	
5	6 (11.1%)	7 (5.2%)	
NA	12 (22.2%)	4 (3%)	
ConflictManagement_Before.3c			0.098
3	18 (33.3%)	78 (58.2%)	
4	19 (35.2%)	41 (30.6%)	
5	4 (7.4%)	6 (4.5%)	
NA	13 (24.1%)	9 (6.7%)	
Healthy_Rel.3c			0.749
3	2 (3.7%)	5 (3.7%)	
4	16 (29.6%)	55 (41%)	
5	27 (50%)	71 (53%)	
NA	9 (16.7%)	3 (2.2%)	
Communicate.3c			0.327
3	1 (1.9%)	7 (5.2%)	
4	16 (29.6%)	59 (44%)	
5	27 (50%)	64 (47.8%)	
NA	10 (18.5%)	4 (3%)	
ConflictManagement.3c			0.16
3	3 (5.6%)	18 (13.4%)	
4	15 (27.8%)		
5	26 (48.1%)	58 (43.3%)	

NA	10 (18.5%)	0 (0%)	
RightPartner_Before.3c			0.027
3	26 (48.1%)	99 (73.9%)	
4	12 (22.2%)	29 (21.6%)	
5	4 (7.4%)	2 (1.5%)	
NA	12 (22.2%)		
LearnPartner_Before.3c		- (-///	0.003
3	20 (37%)	91 (67.9%)	
4	14 (25.9%)		
5	5 (9.3%)		
NA	15 (27.8%)		
	15 (27.0%)	4 (3%)	0 077
PaceRelationship_Before.3c	05 (46 0%)	05 (70 0%)	0.077
3		95 (70.9%)	
4		32 (23.9%)	
5	4 (7.4%)		
NA	13 (24.1%)	4 (3%)	
WarningSigns_Before.3c			0.111
3	21 (38.9%)	84 (62.7%)	
4	16 (29.6%)	41 (30.6%)	
5	4 (7.4%)	4 (3%)	
NA	13 (24.1%)	5 (3.7%)	
RightPartner.3c			0.548
3	3 (5.6%)	12 (9%)	
4	15 (27.8%)		
5		65 (48.5%)	
NA	10 (18.5%)		
LearnPartner.3c	10 (10.070)	0 (2:270)	0.447
3	1 (1.9%)	7 (5 2%)	0.11
4		44 (32.8%)	
5		81 (60.4%)	
NA	12 (22.2%)	2 (1.5%)	0 202
PaceRelationship.3c	4 (4 0%)	0 (011)	0.393
3	1 (1.9%)	8 (6%)	
4		46 (34.3%)	
5	30 (55.6%)		
NA	11 (20.4%)	1 (0.7%)	
WarningSigns.3c			0.351
3	1 (1.9%)	5 (3.7%)	
4	11 (20.4%)	48 (35.8%)	
5	31 (57.4%)	79 (59%)	
NA	11 (20.4%)	2 (1.5%)	
LearnedGrowingUp_Before.3c			0.095
3	15 (27.8%)	68 (50.7%)	
4	16 (29.6%)		
5	9 (16.7%)		
NA	14 (25.9%)		
PastRelationships_Before.3c	(_0.070)	- (-10)	0.303
3	18 (33.3%)	68 (50.7%)	0.000
5	10 (00.0%)	00 (00.1%)	

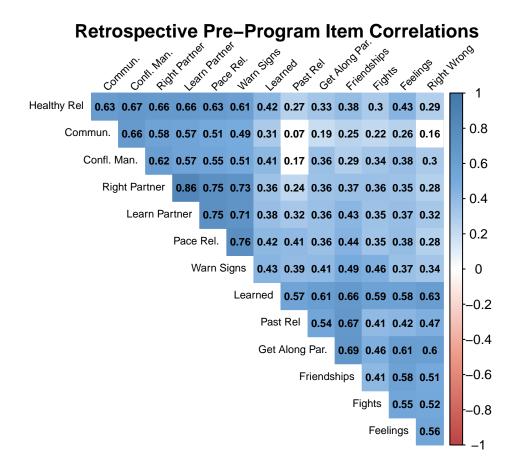
```
4
                                        14 (25.9%) 41 (30.6%)
   5
                                        9 (16.7%)
                                                    16 (11.9%)
   NA
                                        13 (24.1%) 9 (6.7%)
GetAlongParents_Before.3c
                                                                0.137
   3
                                        13 (24.1%)
                                                    63 (47%)
   4
                                        16 (29.6%) 35 (26.1%)
   5
                                        11 (20.4%)
                                                    27 (20.1%)
                                        14 (25.9%)
                                                    9 (6.7%)
FriendshipsAreLike_Before.3c
                                                                0.288
                                        16 (29.6%)
                                                    67 (50%)
   4
                                        15 (27.8%)
                                                    36 (26.9%)
   5
                                        10 (18.5%)
                                                    23 (17.2%)
   NA
                                        13 (24.1%)
                                                   8 (6%)
LearnedGrowingUp.3c
                                                                0.364
                                        1 (1.9%)
                                                    11 (8.2%)
   4
                                        16 (29.6%) 46 (34.3%)
   5
                                        28 (51.9%) 75 (56%)
   NA
                                        9 (16.7%)
                                                    2 (1.5%)
PastRelationships.3c
                                                                0.876
   3
                                        3 (5.6%)
                                                    10 (7.5%)
   4
                                                    36 (26.9%)
                                        11 (20.4%)
   5
                                        32 (59.3%) 87 (64.9%)
                                        8 (14.8%)
                                                    1 (0.7%)
GetAlongParents.3c
                                                                0.607
   3
                                        2 (3.7%)
                                                    12 (9%)
   4
                                        14 (25.9%) 41 (30.6%)
   5
                                        29 (53.7%)
                                                    80 (59.7%)
                                        9 (16.7%)
                                                    1 (0.7%)
FriendshipsAreLike.3c
                                                                0.502
   3
                                        2 (3.7%)
                                                    8 (6%)
   4
                                        12 (22.2%) 45 (33.6%)
   5
                                        32 (59.3%) 79 (59%)
   NA
                                        8 (14.8%)
                                                    2 (1.5%)
Fights_Before.3c
                                                                0.368
   3
                                        13 (24.1%)
                                                    56 (41.8%)
   4
                                        18 (33.3%) 47 (35.1%)
   5
                                        10 (18.5%)
                                                    24 (17.9%)
                                        13 (24.1%) 7 (5.2%)
FeelingsHurt_Before.3c
                                                                0.058
   3
                                        12 (22.2%) 51 (38.1%)
   4
                                        16 (29.6%) 56 (41.8%)
   5
                                        13 (24.1%)
                                                    19 (14.2%)
                                        13 (24.1%)
                                                    8 (6%)
RightandWrong_Before.3c
                                                                0.162
   3
                                        12 (22.2%) 45 (33.6%)
   4
                                        15 (27.8%) 57 (42.5%)
   5
                                        14 (25.9%)
                                                    25 (18.7%)
   NA
                                        13 (24.1%) 7 (5.2%)
```

Fights.3c			0.87
3	3 (5.6%)	12 (9%)	
4	12 (22.2%)	35 (26.1%)	
5	30 (55.6%)	84 (62.7%)	
NA	9 (16.7%)	3 (2.2%)	
FeelingsHurt.3c			0.731
3	1 (1.9%)	6 (4.5%)	
4	12 (22.2%)	37 (27.6%)	
5	33 (61.1%)	89 (66.4%)	
NA	8 (14.8%)	2 (1.5%)	
RightandWrong.3c			0.705
3	2 (3.7%)	7 (5.2%)	
4	8 (14.8%)	30 (22.4%)	
5	36 (66.7%)	95 (70.9%)	
NA	8 (14.8%)	2 (1.5%)	
In Analysis Sample3			<.001
FALSE	54 (100%)	0 (0%)	
TRUE	0 (0%)	134 (100%)	
NA	0 (0%)	0 (0%)	

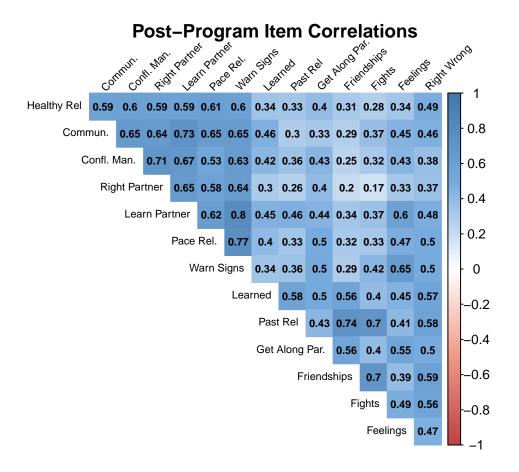
1.4 Correlations

1.4.1 Outcomes

1.4.1.1 Retrospective Pre-Program Item-Level

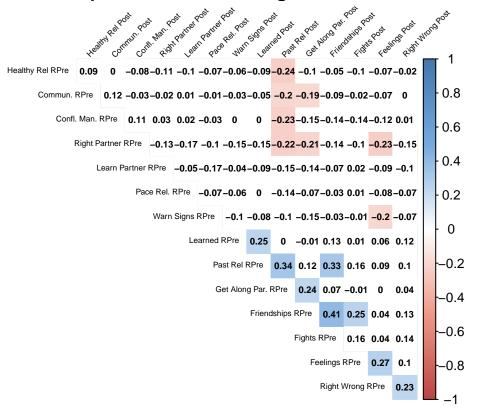


1.4.1.2 Post-Program Item-Level

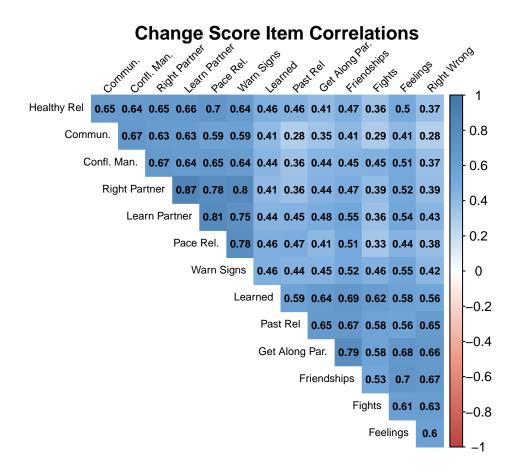


1.4.1.3 Retrospective Pre-Program to Post-Program Item-Level

Retrospective Pre-Post Program Item Correlations



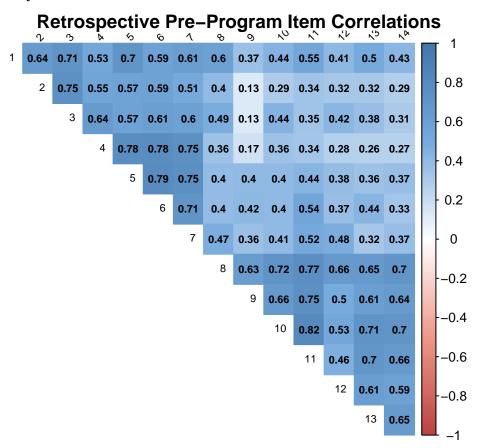
1.4.1.4 Change Scores at Item Level



1.4.1.5 Categorical Retrospective Pre-Program Item-Level

Converted non-numeric input to numeric

Warning in matpLower(x, nvar, gminx, gmaxx, gminy, gmaxy): 60 cells were adjusted for 0 values using the correction for continuity. Examine your data carefully.



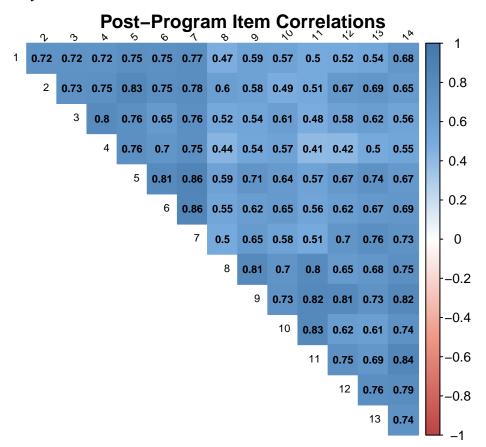
• Items

- 1. Healthy Rel
- 2. Commun.
- 3. Confl. Man.
- 4. Right Partner
- 5. Learn Partner
- 6. Pace Rel.
- 7. Warn Signs
- 8. Learned
- 9. Past Rel
- 10. Get Along Par.
- 11. Friendships
- 12. Fights
- 13. Feelings
- 14. Right Wrong

1.4.1.6 Categorical Post-Program Item-Level

Converted non-numeric input to numeric

Warning in matpLower(x, nvar, gminx, gmaxx, gminy, gmaxy): 48 cells were adjusted for 0 values using the correction for continuity. Examine your data carefully.



• Items

- 1. Healthy Rel
- 2. Commun.
- 3. Confl. Man.
- 4. Right Partner
- 5. Learn Partner
- 6. Pace Rel.
- 7. Warn Signs
- 8. Learned
- 9. Past Rel
- 10. Get Along Par.
- 11. Friendships
- 12. Fights
- 13. Feelings
- 14. Right Wrong

1.4.1.7 Retrospective Pre-Program to Post-Program Item-Level

Converted non-numeric input to numeric

Warning in matpLower(x, nvar, gminx, gmaxx, gminy, gmaxy): 239 cells were adjusted for 0 values using the correction for continuity. Examine your data carefully.

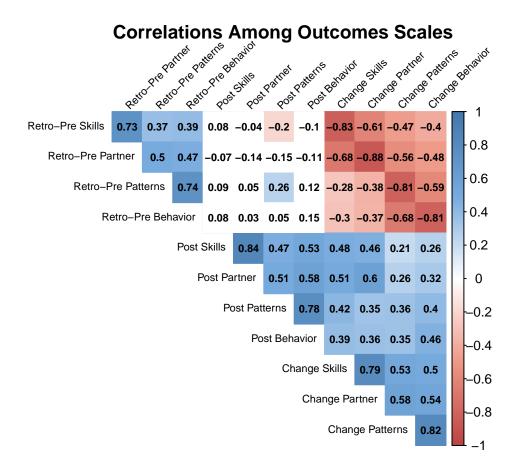
Warning in cor.smooth(mat): Matrix was not positive definite, smoothing was done

Retrospective Pre-Post Program Item Correlations 1 0.25 0.09 0.02 -0.13 -0.01 -0.08 0 -0.01 -0.16 -0.06 0.11 0.03 0.03 0.11 0.25 0.07 0.02 0.09 0.07 0.1 -0.02 -0.13 -0.15 -0.02 0.1 0.05 0.08 8.0 0.19 -0.01 0 -0.07 -0.01 0.02 -0.25 -0.05 -0.05 -0.05 -0.08 -0.04 0.6 4 -0.03 -0.12 -0.06 -0.15 -0.23 -0.29 -0.12 -0.27 -0.2 -0.24 -0.25 0.4 5 0.04 -0.17 -0.03 -0.19 -0.12 -0.16 -0.12 0.02 -0.04 -0.11 6 0.09 0.06 0.03 -0.09 0.02 0.02 0.07 0.04 -0.04 0.2 7 -0.07 -0.09 -0.08 -0.13 -0.06 0.06 -0.14 -0.02 0 0.3 0.14 0.21 0.36 0.15 0.2 0.29 -0.20.43 0.23 0.39 0.3 0.26 0.29 0.42 0.31 0.21 0.17 0.23 -0.4 0.49 0.26 0.16 -0.6 12 0.35 0.15 0.3 13 0.39 0.29 -0.80.38

- Row Items Retrospective-Pre
 - 1. Healthy Rel
 - 2. Commun.
 - 3. Confl. Man.
 - 4. Right Partner
 - 5. Learn Partner
 - 6. Pace Rel.
 - 7. Warn Signs
 - 8. Learned
 - 9. Past Rel
 - 10. Get Along Par.
 - 11. Friendships
 - 12. Fights

- 13. Feelings
- 14. Right Wrong
- Column Items Post
 - 2. Healthy Rel
 - 3. Commun.
 - 4. Confl. Man.
 - 5. Right Partner
 - 6. Learn Partner
 - 7. Pace Rel.
 - 8. Warn Signs
 - 9. Learned
 - 10. Past Rel
 - 11. Get Along Par.
 - 12. Friendships
 - 13. Fights
 - 14. Feelings
 - 15. Right Wrong

1.4.1.8 Outcomes Scales



1.5 Multicollinearity of Predictors

- Warnings Signs
 - VIF greater than 10 is cause for concern.
 - Average VIF substantially greater than 1
 - $-\,$ Tolerance below 0.1 indicates serious problem, below 0.2 potential problems.

1.5.1 Checking Multicollinearity when Using Dosage as 3 levels and Age as Continuous

1.5.1.1 VIF

	GVIF	Df	GVIF12.Df
Age (Decades)	1.558	1	1.248
${\bf Ethnic_Code}$	1.271	2	1.062
Education_3cat	1.653	2	1.134
Prior_RshpEducation	1.341	2	1.076
${f Financial Worry_cat}$	1.396	2	1.087
Income (10K)	1.267	1	1.126
${f Number_Attended}$	1.279	2	1.063
${f Gender}$	1.158	1	1.076
${\bf Divorced_Dichotomous}$	1.335	1	1.155

• Mean VIF is 1.3439158

1.5.1.2 Tolerance

	Tolerance
Age (Decades)	0.642
${\bf Ethnic_Code}$	0.787
${\bf Education_3cat}$	0.605
Prior_RshpEducation	0.746
FinancialWorry_cat	0.716
Income (10K)	0.789
${f Number_Attended}$	0.782
${f Gender}$	0.863
Divorced_Dichotomous	0.749

1.5.2 Checking Multicollinearity when Using Dosage as 2 levels, Age as Continuous

1.5.2.1 VIF

	GVIF	Df	GVIF12.Df
Age (Decades)	1.557	1	1.248
${\bf Ethnic_Code}$	1.258	2	1.059
Education_3cat	1.639	2	1.132
Prior_RshpEducation	1.293	2	1.066
${f Financial Worry_cat}$	1.347	2	1.077
Income (10K)	1.266	1	1.125
\mathbf{Dosage}	1.133	1	1.064
${f Gender}$	1.139	1	1.067
${\bf Divorced_Dichotomous}$	1.335	1	1.155

• Mean VIF is 1.294849

1.5.2.2 Tolerance

	Tolerance
Age (Decades)	0.642
${\bf Ethnic_Code}$	0.795
Education_3cat	0.61
Prior_RshpEducation	0.774
${f Financial Worry_cat}$	0.742
Income (10K)	0.79
\mathbf{Dosage}	0.883
${f Gender}$	0.878
Divorced_Dichotomous	0.749

1.6 Frequencies

1.6.1 Frequencies of Predictors

1.6.1.1 Age

• Age (Decades)

Age (Decades)	Freq	CumFreq	Percent	CumPerc
1.8	1	1	0.75%	0.75%
1.9	5	6	3.73%	4.48%
2.1	1	7	0.75%	5.22%
2.2	5	12	3.73%	8.96%
2.3	9	21	6.72%	15.67%
2.4	5	26	3.73%	19.40%
2.5	5	31	3.73%	23.13%
2.6	2	33	1.49%	24.63%
2.7	3	36	2.24%	26.87%
2.8	4	40	2.99%	29.85%
5.1	2	115	1.49%	85.82%
5.2	1	116	0.75%	86.57%
5.3	2	118	1.49%	88.06%
5.4	3	121	2.24%	90.30%
5.5	1	122	0.75%	91.04%
5.7	5	127	3.73%	94.78%
5.8	1	128	0.75%	95.52%
5.9	1	129	0.75%	96.27%
6	1	130	0.75%	97.01%
6.2	1	131	0.75%	97.76%
6.3	3	134	2.24%	100.00%

• Age Groups

Age_Groups	Freq	CumFreq	Percent	CumPerc
18-30	50	50	37.31%	37.31%
31-40	32	82	23.88%	61.19%
41-50	31	113	23.13%	84.33%
51+	21	134	15.67%	100.00%

1.6.1.2 Ethnicity

• Collapsing categories

Ethnic_Code	Freq	CumFreq	Percent	CumPerc
Caucasian	91	91	67.91%	67.91%
Hispanic/Latino	23	114	17.16%	85.07%
Other	20	134	14.93%	100.00%

• Collapsing categories to two

Race_Dichotomous	Freq	${\tt CumFreq}$	Percent	CumPerc
White	91	91	67.91%	67.91%
Minority	43	134	32.09%	100.00%

1.6.1.3 Education

• Collapsing to three

Education_3cat	Freq	CumFreq	Percent	CumPerc
High school graduate/GED/No degree	57	57	42.54%	42.54%
Some college	30	87	22.39%	64.93%
Tech./College/Grad Degree	47	134	35.07%	100.00%

1.6.1.4 Income in \$10,000

Income	(10K)	Freq	CumFreq	Percent	CumPerc	Valid	CumValid
0		10	10	7.46%	7.46%	8.06%	8.06%
0.1		4	14	2.99%	10.45%	3.23%	11.29%
0.2		4	18	2.99%	13.43%	3.23%	14.52%
0.25		3	21	2.24%	15.67%	2.42%	16.94%
0.3		4	25	2.99%	18.66%	3.23%	20.16%
0.4		2	27	1.49%	20.15%	1.61%	21.77%
0.5		17	44	12.69%	32.84%	13.71%	35.48%
0.7		3	47	2.24%	35.07%	2.42%	37.90%
0.75		1	48	0.75%	35.82%	0.81%	38.71%
0.8		1	49	0.75%	36.57%	0.81%	39.52%
4		6	113	4.48%	84.33%	4.84%	91.13%
4.5		2	115	1.49%	85.82%	1.61%	92.74%
4.7		1	116	0.75%	86.57%	0.81%	93.55%
4.9		1	117	0.75%	87.31%	0.81%	94.35%
5		2	119	1.49%	88.81%	1.61%	95.97%
5.4		1	120	0.75%	89.55%	0.81%	96.77%
5.5		1	121	0.75%	90.30%	0.81%	97.58%
6		1	122	0.75%	91.04%	0.81%	98.39%
6.5		1	123	0.75%	91.79%	0.81%	99.19%
7.5		1	124	0.75%	92.54%	0.81%	100.00%
Missing	3	10	134	7.46%	100.00%		

1.6.1.5 Gender

Gender Freq CumFreq Percent CumPerc Male 23 23 17.16% 17.16% Female 111 134 82.84% 100.00%

1.6.1.6 Divorced

Divorced_Dichotomous	Freq	CumFreq	Percent	CumPerc
Never Divorced	65	65	48.51%	48.51%
Divorced	69	134	51.49%	100.00%

1.6.1.7 Financial Strain

• Collapsed

FinancialWorry_	cat	Freq	CumFreq	Percent	CumPerc
Never, Once in	a While, Hardly Ever	26	26	19.40%	19.40%
Often		45	71	33.58%	52.99%
Almost all the	time	63	134	47.01%	100.00%

1.6.1.8 Prior Relationship Education

• 2 categories

Prior_RshpEducation_collapsed	Freq	CumFreq	Percent	CumPerc
None	66	66	49.25%	49.25%
Some/A lot	68	134	50.75%	100.00%

1.6.1.9 Dosage

• All Categories

Number_Attended	Freq	CumFreq	Percent	CumPerc
One Session	46	46	34.33%	34.33%
Two Sessions	37	83	27.61%	61.94%
Three Sessions	51	134	38.06%	100.00%

• Dosage: Full vs. Partial

Dosage	Freq	CumFreq	Percent	CumPerc
Partial	83	83	61.94%	61.94%
Full	51	134	38.06%	100.00%

1.6.2 Frequencies of Outcomes Variables at Item Level

1.6.2.1 Perceived Knowledge About Relationship Skills

1.6.2.1.1 Retro-Pre

Value	Healthy Rel.	Communicate	Confl. Mng.
1	13	4	9
2	22	21	17
3	47	49	52
4	43	49	41
5	6	7	6
Valid Total	131	130	125
_	_	_	_
Missing	3	4	9
Total	134	134	134

1.6.2.1.2 Post

Value	Healthy Rel.	Communicate	Confl. Mng.
1	0	0	1
2	0	1	2
3	5	6	15
4	55	59	58
5	71	64	58
Valid Total	131	130	134
_	_	_	_
Missing	3	4	0
Total	134	134	134

1.6.2.1.3 Change

Value	Healthy Rel.	Communicate	Confl. Mng.
-2	1	1	2
-1	0	3	3
0	20	26	29
1	51	55	45
2	37	28	34
3	9	12	8
4	10	2	4
Valid Total	128	127	125
_	_	_	
Missing	1	2	4
Total	129	129	129

1.6.2.1.4 Categorical Retro-Pre

Value	Healthy Rel.	Communicate	Confl. Mng.
3	82	74	78
4	43	49	41
5	6	7	6
Valid Total	131	130	125
_	_	_	
Missing	3	4	9
Total	134	134	134

${\bf 1.6.2.1.5}\quad {\bf Categorical\ Post}$

Value	Healthy Rel.	Communicate	Confl. Mng.
3	5	7	18
4	55	59	58
5	71	64	58
Valid Total	131	130	134
_	_	_	_
Missing	3	4	0
Total	134	134	134

1.6.2.2 Perceived Knowledge About Partner Selection

1.6.2.2.1 Retro-Pre

Value	Right Partner	Learn Partner	Pace Rel.	Warning Signs
1	18	18	19	15
2	25	26	29	29
3	56	47	47	40
4	29	37	32	41
5	2	2	3	4
Valid Total	130	130	130	129
Missing	4	4	4	5
Total	134	134	134	134

1.6.2.2.2 Post

Value	Right Partner	Learn Partner	Pace Rel.	Warning Signs
1	0	1	0	0
2	2	1	1	2
3	10	5	7	3
4	54	44	46	48
5	65	81	79	79
Valid Total	131	132	133	132
			_	
Missing	3	2	1	2
Total	134	134	134	134

1.6.2.2.3 Change

Value	Right Partner	Learn Partner	Pace Rel.	Warning Signs
-2	1	1	2	1
-1	2	1	1	1
0	20	15	13	19
1	37	39	43	38
2	38	42	35	35
3	16	15	21	23
4	13	15	14	10
Valid Total	127	128	129	128
	_			
Missing	2	1	0	1
Total	129	129	129	129

1.6.2.2.4 Categorical Retro-pre

Value	Right Partner	Learn Partner	Pace Rel.	Warning Signs
3	99	91	95	84
4	29	37	32	41
5	2	2	3	4
Valid Total	130	130	130	129
		_		_
Missing	4	4	4	5
Total	134	134	134	134

${\bf 1.6.2.2.5}\quad {\bf Categorical\ Post}$

Value	Right Partner	Learn Partner	Pace Rel.	Warning Signs
3	12	7	8	5
4	54	44	46	48
5	65	81	79	79
Valid Total	131	132	133	132
_		_	_	_
Missing	3	2	1	2
Total	134	134	134	134

${\bf 1.6.2.3} \quad {\bf Perceived~Importance~of~Knowledge~About~a~Potential~Partner's~Relationships~Patterns}$

1.6.2.3.1 Retro-Pre

Value	Lrn. Grow. Up	Past Rels.	Get Along Pars.	Friendships
1	7	7	6	6
2	16	19	16	21
3	45	42	41	40
4	44	41	35	36
5	14	16	27	23
Valid Total	126	125	125	126
Missing	8	9	9	8
Total	134	134	134	134

1.6.2.3.2 Post

Value	Lrn. Grow. Up	Past Rels.	Get Along Pars.	Friendships
1	0	2	1	2
2	0	3	0	0
3	11	5	11	6
4	46	36	41	45
5	75	87	80	79
Valid Total	132	133	133	132
_	_	_		
Missing	2	1	1	2
Total	134	134	134	134

1.6.2.3.3 Change

Value	Lrn. Grow. Up	Past Rels.	Get Along Pars.	Friendships
-2	0	0	1	0
-1	3	2	3	1
0	34	29	40	40
1	41	47	41	40
2	31	29	27	31
3	14	14	7	9
4	1	3	5	3
Valid Total	124	124	124	124
_				
Missing	5	5	5	5
Total	129	129	129	129

1.6.2.3.4 Categorical Retro-Pre

Value	Lrn. Grow. Up	Past Rels.	Get Along Pars.	Friendships
3	68	68	63	67
4	44	41	35	36
5	14	16	27	23
Valid Total	126	125	125	126
Missing	8	9	9	8
Total	134	134	134	134

${\bf 1.6.2.3.5}\quad {\bf Categorical\ Post}$

Value	Lrn. Grow. Up	Past Rels.	Get Along Pars.	Friendships
3	11	10	12	8
4	46	36	41	45
5	75	87	80	79
Valid Total	132	133	133	132
_				
Missing	2	1	1	2
Total	134	134	134	134

${\bf 1.6.2.4}\quad {\bf Perceived\ Importance\ of\ Knowledge\ About\ a\ Potential\ Partner's\ Relationship\ Behavior\ and\ Attitudes$

1.6.2.4.1 Retro-Pre

Value	Fights	Feelings Hurt	Right and Wrong
1	8	5	2
2	13	15	9
3	35	31	34
4	47	56	57
5	24	19	25
Valid Total	127	126	127
	_	_	_
Missing	7	8	7
Total	134	134	134

1.6.2.4.2 Post

Value	Fights	Feelings Hurt	Right and Wrong
1	2	1	0
2	2	0	1
3	8	5	6
4	35	37	30
5	84	89	95
Valid Total	131	132	132
_		_	_
Missing	3	2	2
Total	134	134	134

1.6.2.4.3 Change

Value	Fights	Feelings Hurt	Right and Wrong
-2	2	0	1
-1	4	2	1
0	35	38	42
1	48	49	53
2	18	23	20
3	12	8	6
4	4	4	2
Valid Total	124	124	125
	—	_	_
Missing	5	5	4
Total	129	129	129

1.6.2.4.4 Categorical Retro-Pre

Value	Fights	Feelings Hurt	Right and Wrong
3	56	51	45
4	47	56	57
5	24	19	25
Valid Total	127	126	127
	_	_	_
Missing	7	8	7
Total	134	134	134

1.6.2.4.5 Categorical Post

Value	Fights	Feelings Hurt	Right and Wrong
3	12	6	7
4	35	37	30
5	84	89	95
Valid Total	131	132	132
		_	
Missing	3	2	2
Total	134	134	134

1.6.3 Frequencies of Change in Outcomes Variables at Scale Level

• Collapsing Categories for Display of Frequencies, but not for Analyses

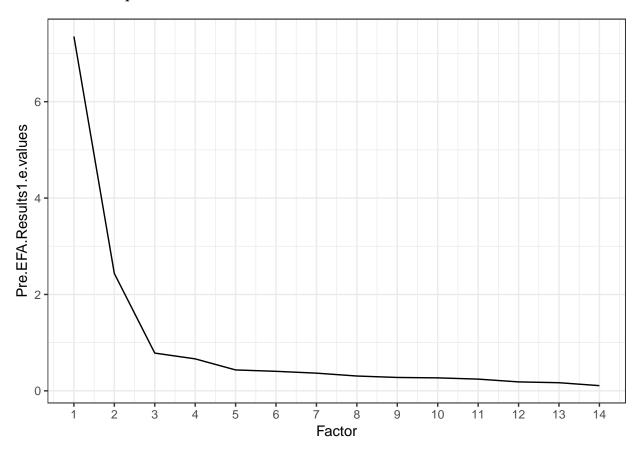
Value	Rel. Skills	Prtnr. Sel.	Past Rel. Beh.	Rel. Beh. Att.
[-1,0]	15	12	17	23
(0,1]	51	36	55	64
(1,2]	43	45	34	26
(2,3]	12	20	16	9
(3,4]	7	16	3	3
Valid Total	128	129	125	125
Missing	1	0	4	4
Total	129	129	129	129

2 Exploratory Factor Analysis Treating Data as Continuous (On Full Sample)

2.1 Retrospective-Pre

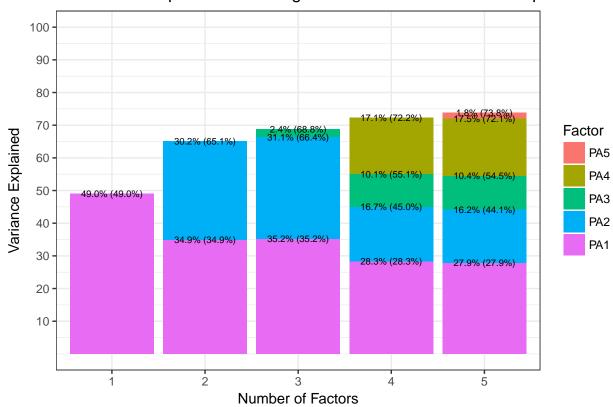
2.1.0.1 Determining Number of Factors

2.1.0.1.1 Screeplot



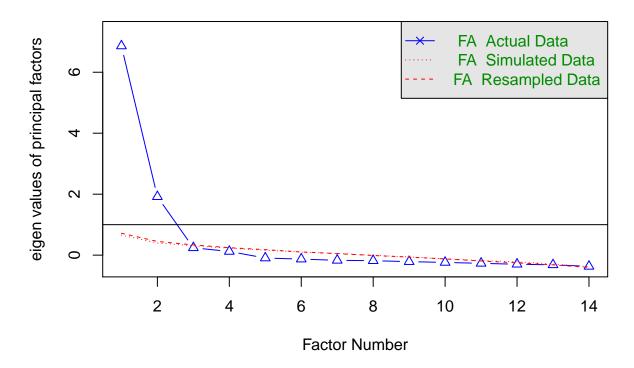
2.1.0.1.2 Proportion of Variance

EFA on Retrospective Pre-Program Assessment: Variance Explained



2.1.0.1.3 Parallel Analysis

Parallel Analysis Scree Plots



Parallel analysis suggests that the number of factors = 2 and the number of components = NA

2.1.0.1.4 EFA Results

One Factor

Factor analysis with Call: psych::fa(r = Pre_vars, nfactors = 1, rotate = "Promax", fm = "pa", cor = "cor")

Test of the hypothesis that 1 factor is sufficient. The degrees of freedom for the model is 77 and the objective function was 4.35 The number of observations was 188 with Chi Square = 786.78 with prob < 3.8e-118

The root mean square of the residuals (RMSA) is 0.15 The df corrected root mean square of the residuals is 0.17

Tucker Lewis Index of factoring reliability = 0.574 RMSEA index = 0.226 and the 10 % confidence intervals are 0.208 0.236 BIC = 383.58

Two Factors

Factor analysis with Call: psych::fa(r = Pre_vars, nfactors = 2, rotate = "Promax", fm = "pa", cor = "cor")

Test of the hypothesis that 2 factors are sufficient. The degrees of freedom for the model is 64 and the objective function was 1.13 The number of observations was 188 with Chi Square = 203.81 with prob < 1.7e-16

The root mean square of the residuals (RMSA) is 0.04 The df corrected root mean square of the residuals is 0.05

Tucker Lewis Index of factoring reliability = 0.899 RMSEA index = 0.111 and the 10 % confidence intervals are 0.092 0.125 BIC = -131.32 With factor correlations of PA1 PA2 PA1 1.00 0.53 PA2 0.53 1.00

Three Factors

Factor analysis with Call: psych::fa(r = Pre_vars, nfactors = 3, rotate = "Promax", fm = "pa", cor = "cor")

Test of the hypothesis that 3 factors are sufficient. The degrees of freedom for the model is 52 and the objective function was 0.71 The number of observations was 188 with Chi Square = 127.36 with prob < 2.9e-08

The root mean square of the residuals (RMSA) is 0.03 The df corrected root mean square of the residuals is 0.04

Tucker Lewis Index of factoring reliability = 0.933 RMSEA index = 0.091 and the 10 % confidence intervals are 0.069 0.108 BIC = -144.93 With factor correlations of PA1 PA2 PA3 PA1 1.00 0.56 -0.25 PA2 0.56 1.00 -0.30 PA3 -0.25 -0.30 1.00

Four Factors

Factor analysis with Call: psych::fa(r = Pre_vars, nfactors = 4, rotate = "Promax", fm = "pa", cor = "cor")

Test of the hypothesis that 4 factors are sufficient. The degrees of freedom for the model is 41 and the objective function was 0.35 The number of observations was 188 with Chi Square = 61.9 with prob < 0.019

The root mean square of the residuals (RMSA) is 0.02 The df corrected root mean square of the residuals is 0.02

Tucker Lewis Index of factoring reliability = 0.976 RMSEA index = 0.056 and the 10 % confidence intervals are 0.022 0.078 BIC = -152.79 With factor correlations of PA1 PA4 PA2 PA3 PA1 1.00 0.44 0.47 0.64 PA4 0.44 1.00 0.76 0.45 PA2 0.47 0.76 1.00 0.42 PA3 0.64 0.45 0.42 1.00

Five Factors

Factor analysis with Call: psych::fa(r = Pre_vars, nfactors = 5, rotate = "Promax", fm = "pa", cor = "cor")

Test of the hypothesis that 5 factors are sufficient. The degrees of freedom for the model is 31 and the objective function was 0.21 The number of observations was 188 with Chi Square = 37.89 with prob < 0.18

The root mean square of the residuals (RMSA) is 0.01 The df corrected root mean square of the residuals is 0.02

Tucker Lewis Index of factoring reliability = 0.99 RMSEA index = 0.039 and the 10 % confidence intervals are 0 0.068 BIC = -124.44 With factor correlations of PA1 PA4 PA2 PA3 PA5 PA1 1.00 0.45 0.50 0.69 -0.17 PA4 0.45 1.00 0.71 0.44 0.14 PA2 0.50 0.71 1.00 0.41 -0.13 PA3 0.69 0.44 0.41 1.00 0.03 PA5 -0.17 0.14 -0.13 0.03 1.00

2.1.0.1.5 Comparing Loadings

One Factor

% Called in the psych package psych::fa2latex % Called in the psych package Pre.EFA.Results1

Table 26: fa2latex

A factor analysis table from the psych package in R					
Variable	PA1	PA1.1	PA1.2	com	
Healthy_Rel_Before.n	0.75	0.56	0.44	1	
Communicate_Before.n	0.66	0.44	0.56	1	
ConflictManagement_Before.n	0.72	0.52	0.48	1	
RightPartner_Before.n	0.79	0.62	0.38	1	
LearnPartner_Before.n	0.80	0.64	0.36	1	
PaceRelationship_Before.n	0.78	0.61	0.39	1	
WarningSigns_Before.n	0.76	0.58	0.42	1	
LearnedGrowingUp_Before.n	0.70	0.50	0.50	1	
PastRelationships_Before.n	0.61	0.37	0.63	1	
GetAlongParents_Before.n	0.67	0.45	0.55	1	
FriendshipsAreLike_Before.n	0.70	0.49	0.51	1	
Fights_Before.n	0.57	0.32	0.68	1	
FeelingsHurt_Before.n	0.62	0.38	0.62	1	
RightandWrong_Before.n	0.62	0.39	0.61	1	
SS loadings	6.86				

Two Factors

% Called in the psych package psych::fa2latex % Called in the psych package Pre.EFA.Results2

Table 27: fa2latex
A factor analysis table from the psych package in R.

A factor analysis table from the psych package in R									
Variable	PA1	PA2	h2	u2	com				
Healthy_Rel_Before.n	0.78	0.05	0.66	0.34	1.01				
Communicate_Before.n	0.80	-0.06	0.59	0.41	1.01				
$ConflictManagement_Before.n$	0.73	0.08	0.60	0.40	1.02				
RightPartner_Before.n	0.96	-0.07	0.85	0.15	1.01				
LearnPartner_Before.n	0.91	-0.01	0.81	0.19	1.00				
PaceRelationship_Before.n	0.84	0.04	0.74	0.26	1.00				
WarningSigns_Before.n	0.80	0.04	0.69	0.31	1.01				
LearnedGrowingUp_Before.n	0.04	0.80	0.68	0.32	1.00				
PastRelationships_Before.n	-0.04	0.77	0.57	0.43	1.00				
GetAlongParents_Before.n	-0.01	0.82	0.66	0.34	1.00				
FriendshipsAreLike_Before.n	0.05	0.79	0.67	0.33	1.01				
Fights_Before.n	0.04	0.63	0.43	0.57	1.01				
FeelingsHurt_Before.n	-0.01	0.74	0.55	0.45	1.00				
RightandWrong_Before.n	-0.07	0.83	0.63	0.37	1.01				
SS loadings	4.89	4.22							
PA1	1.00	0.53							
PA2	0.53	1.00							

Three Factors

% Called in the psych package psych::fa2latex % Called in the psych package Pre.EFA.Results3

Table 28: fa2latex A factor analysis table from the psych package in R									
Variable	PA1	PA2	PA3	h2	u2	cor			
Healthy Rel Before.n	0.76	0.06	-0.07	0.66	0.34	1.0			
Communicate Before.n	0.75	-0.05	-0.24	0.65	0.35	1.2			
ConflictManagement_Before.n	0.67	0.09	-0.25	0.69	0.31	1.3			
RightPartner_Before.n	0.96	-0.07	0.03	0.84	0.16	1.0			
LearnPartner_Before.n	0.93	-0.01	0.11	0.82	0.18	1.0			
PaceRelationship_Before.n	0.91	0.03	0.25	0.80	0.20	1.1			
WarningSigns_Before.n	0.86	0.04	0.20	0.73	0.27	1.1			
LearnedGrowingUp_Before.n	0.01	0.85	0.04	0.70	0.30	1.0			
PastRelationships_Before.n	0.03	0.81	0.46	0.67	0.33	1.5			
GetAlongParents_Before.n	0.00	0.85	0.21	0.65	0.35	1.1			
FriendshipsAreLike_Before.n	0.10	0.83	0.41	0.74	0.26	1.5			
Fights_Before.n	-0.01	0.67	-0.02	0.45	0.55	1.0			
FeelingsHurt_Before.n	-0.05	0.79	0.00	0.58	0.42	1.0			
RightandWrong_Before.n	-0.10	0.87	0.05	0.65	0.35	1.0			
SS loadings	4.93	4.36	0.34						
PA1	1.00	0.56	-0.25						
PA2	0.56	1.00	-0.30						
PA3	-0.25	-0.30	1.00						

Four Factors

% Called in the psych package psych::fa2latex % Called in the psych package Pre.EFA.Results4

Table 29: fa2latex

A factor analysis table from the psych package in R									
Variable	PA1	PA4	PA2	PA3	h2	u2	com		
Healthy_Rel_Before.n	0.49	-0.04	0.09	0.39	0.67	0.33	2.01		
Communicate_Before.n	0.36	-0.06	-0.05	0.62	0.71	0.29	1.64		
$ConflictManagement_Before.n$	0.26	0.05	-0.03	0.67	0.76	0.24	1.31		
RightPartner_Before.n	0.88	0.09	-0.13	0.10	0.86	0.14	1.09		
LearnPartner_Before.n	0.88	0.04	-0.01	0.04	0.84	0.16	1.01		
PaceRelationship_Before.n	0.88	-0.07	0.15	-0.05	0.80	0.20	1.08		
WarningSigns_Before.n	0.88	0.03	0.06	-0.09	0.75	0.25	1.03		
LearnedGrowingUp_Before.n	0.00	0.62	0.22	0.08	0.70	0.30	1.28		
PastRelationships_Before.n	0.07	0.09	0.77	-0.16	0.66	0.34	1.14		
GetAlongParents_Before.n	-0.10	0.22	0.63	0.12	0.68	0.32	1.37		
FriendshipsAreLike_Before.n	0.03	-0.06	0.95	-0.01	0.84	0.16	1.01		
Fights_Before.n	0.13	0.92	-0.21	-0.11	0.61	0.39	1.18		
FeelingsHurt_Before.n	-0.02	0.69	0.09	0.04	0.59	0.41	1.04		
RightandWrong_Before.n	-0.09	0.59	0.26	0.06	0.64	0.36	1.46		
SS loadings	3.96	2.4	2.34	1.41					
PA1	1.00	0.44	0.47	0.64					
PA4	0.44	1.00	0.76	0.45					
PA2	0.47	0.76	1.00	0.42					
PA3	0.64	0.45	0.42	1.00					

Five Factors

% Called in the psych package psych::fa2latex % Called in the psych package Pre.EFA.Results5

Table 30: fa2latex

A factor analysis table from the psych package in R										
Variable	PA1	PA4	PA2	PA3	PA5	h2	u2	com		
Healthy_Rel_Before.n	0.43	-0.02	0.08	0.43	-0.03	0.68	0.32	2.08		
Communicate_Before.n	0.31	-0.04	-0.07	0.65	-0.01	0.71	0.29	1.47		
ConflictManagement_Before.n	0.22	0.06	-0.04	0.69	0.03	0.76	0.24	1.23		
RightPartner_Before.n	0.94	0.05	-0.12	0.05	0.07	0.88	0.12	1.06		
LearnPartner_Before.n	0.96	0.00	0.00	-0.02	0.09	0.86	0.14	1.02		
PaceRelationship_Before.n	0.82	-0.06	0.16	-0.01	-0.10	0.81	0.19	1.11		
WarningSigns_Before.n	0.84	0.04	0.06	-0.06	-0.07	0.75	0.25	1.04		
LearnedGrowingUp_Before.n	-0.11	0.70	0.19	0.15	-0.11	0.74	0.26	1.35		
PastRelationships_Before.n	-0.02	0.14	0.78	-0.10	-0.04	0.71	0.29	1.11		
GetAlongParents_Before.n	0.03	0.13	0.70	0.03	0.44	0.81	0.19	1.78		
FriendshipsAreLike_Before.n	0.04	0.02	0.87	-0.01	0.16	0.80	0.20	1.08		
Fights_Before.n	0.11	0.91	-0.20	-0.10	-0.06	0.61	0.39	1.17		
FeelingsHurt_Before.n	0.03	0.68	0.09	0.00	0.11	0.60	0.40	1.09		
RightandWrong_Before.n	-0.06	0.59	0.26	0.04	0.11	0.63	0.37	1.50		
SS loadings	3.91	2.46	2.27	1.46	0.25					
PA1	1.00	0.45	0.50	0.69	-0.17					
PA4	0.45	1.00	0.71	0.44	0.14					
PA2	0.50	0.71	1.00	0.41	-0.13					
PA3	0.69	0.44	0.41	1.00	0.03					
PA5	-0.17	0.14	-0.13	0.03	1.00					

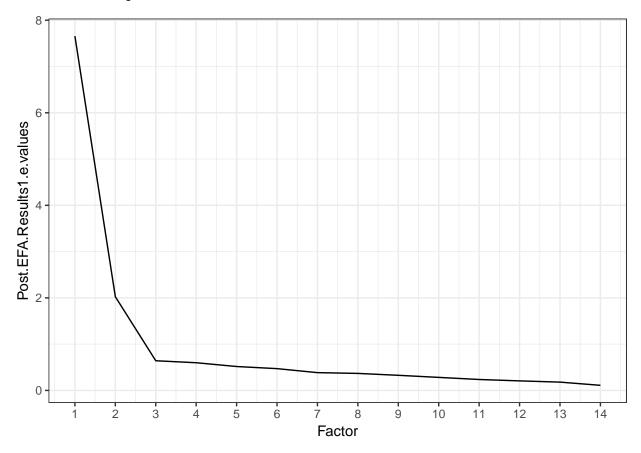
2.2 Post

maximum iteration exceeded

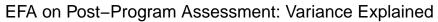
Warning in fac(r = r, nfactors = nfactors, n.obs = n.obs, rotate = rotate, : An ultra-Heywood case was detected. Examine the results carefully

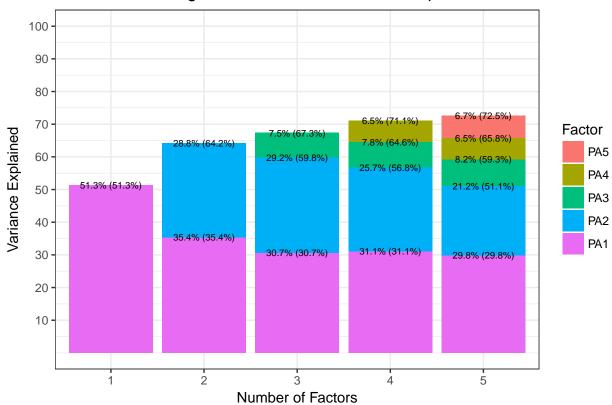
2.2.0.1 Determining Number of Factors

2.2.0.1.1 Screeplot



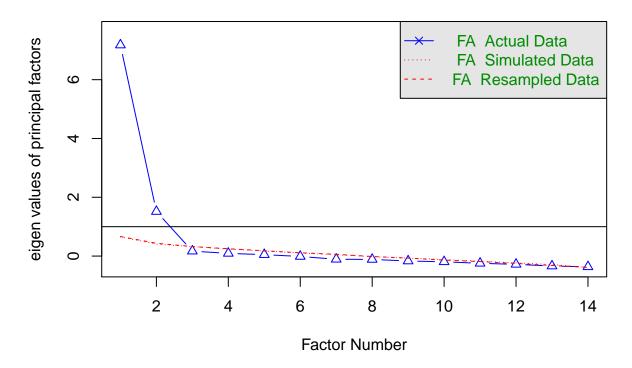
2.2.0.1.2 Proportion of Variance





2.2.0.1.3 Parallel Analysis

Parallel Analysis Scree Plots



Parallel analysis suggests that the number of factors = 2 and the number of components = NA

2.2.0.1.4 EFA Results

One Factor

Factor analysis with Call: psych::fa(r = Post_vars, nfactors = 1, rotate = "Promax", fm = "pa", cor = "cor")

Test of the hypothesis that 1 factor is sufficient. The degrees of freedom for the model is 77 and the objective function was 3.47 The number of observations was 188 with Chi Square =628.12 with prob < 2.4e-87

The root mean square of the residuals (RMSA) is 0.12 The df corrected root mean square of the residuals is 0.14

Tucker Lewis Index of factoring reliability = 0.654 RMSEA index = 0.199 and the 10 % confidence intervals are 0.182 0.21 BIC = 224.91

Two Factors

Factor analysis with Call: psych::fa(r = Post_vars, nfactors = 2, rotate = "Promax", fm = "pa", cor = "cor")

Test of the hypothesis that 2 factors are sufficient. The degrees of freedom for the model is 64 and the objective function was 1.16 The number of observations was 188 with Chi Square = 208.83 with prob < 3e-17

The root mean square of the residuals (RMSA) is 0.04 The df corrected root mean square of the residuals is 0.05

Tucker Lewis Index of factoring reliability = 0.89 RMSEA index = 0.113 and the 10 % confidence intervals are 0.094 0.127 BIC = -126.3 With factor correlations of PA1 PA2 PA1 1.00 0.62 PA2 0.62 1.00

Three Factors

Factor analysis with Call: psych::fa(r = Post_vars, nfactors = 3, rotate = "Promax", fm = "pa", cor = "cor")

Test of the hypothesis that 3 factors are sufficient. The degrees of freedom for the model is 52 and the objective function was 0.82 The number of observations was 188 with Chi Square = 146.35 with prob < 6.5e-11

The root mean square of the residuals (RMSA) is 0.03 The df corrected root mean square of the residuals is 0.04

Tucker Lewis Index of factoring reliability = 0.912 RMSEA index = 0.102 and the 10 % confidence intervals are 0.08 0.118 BIC = -125.94 With factor correlations of PA2 PA1 PA3 PA2 1.00 0.59 0.55 PA1 0.59 1.00 0.53 PA3 0.55 0.53 1.00

Four Factors

Factor analysis with Call: psych::fa(r = Post_vars, nfactors = 4, rotate = "Promax", fm = "pa", cor = "cor")

Test of the hypothesis that 4 factors are sufficient. The degrees of freedom for the model is 41 and the objective function was 0.59 The number of observations was 188 with Chi Square = 104.7 with prob < 1.8e-07

The root mean square of the residuals (RMSA) is 0.02 The df corrected root mean square of the residuals is 0.04

Tucker Lewis Index of factoring reliability = 0.924 RMSEA index = 0.095 and the 10 % confidence intervals are 0.07 0.113 BIC = -109.99 With factor correlations of PA1 PA2 PA3 PA4 PA1 1.00 0.56 0.58 0.45 PA2 0.56 1.00 0.65 0.44 PA3 0.58 0.65 1.00 0.40 PA4 0.45 0.44 0.40 1.00

Five Factors

Factor analysis with Call: $psych::fa(r = Post_vars, nfactors = 5, rotate = "Promax", fm = "pa", cor = "cor")$

Test of the hypothesis that 5 factors are sufficient. The degrees of freedom for the model is 31 and the objective function was 0.42 The number of observations was 188 with Chi Square = 74.99 with prob < 1.6e-0.5

The root mean square of the residuals (RMSA) is 0.02 The df corrected root mean square of the residuals is 0.03

Tucker Lewis Index of factoring reliability = 0.93 RMSEA index = 0.091 and the 10 % confidence intervals are 0.062 0.112 BIC = -87.34 With factor correlations of PA1 PA2 PA3 PA4 PA5 PA1 1.00 0.46 0.42 0.50 0.47 PA2 0.46 1.00 0.56 0.57 0.64 PA3 0.42 0.56 1.00 0.39 0.54 PA4 0.50 0.57 0.39 1.00 0.48 PA5 0.47 0.64 0.54 0.48 1.00

2.2.0.1.5 Comparing Loadings

One Factor

% Called in the psych package psych::fa2latex % Called in the psych package Post.EFA.Results1

Table 31: fa2latex

A factor analysis table from the psych package in R									
Variable	PA1	PA1.1	PA1.2	com					
Healthy_Rel.n	0.70	0.49	0.51	1					
Communicate.n	0.75	0.57	0.43	1					
ConflictManagement.n	0.72	0.52	0.48	1					
RightPartner.n	0.67	0.45	0.55	1					
LearnPartner.n	0.81	0.65	0.35	1					
PaceRelationship.n	0.75	0.56	0.44	1					
WarningSigns.n	0.79	0.62	0.38	1					
LearnedGrowingUp.n	0.70	0.49	0.51	1					
PastRelationships.n	0.67	0.45	0.55	1					
GetAlongParents.n	0.71	0.51	0.49	1					
FriendshipsAreLike.n	0.65	0.43	0.57	1					
Fights.n	0.61	0.37	0.63	1					
FeelingsHurt.n	0.73	0.53	0.47	1					
RightandWrong.n	0.73	0.54	0.46	1					
~~.									
SS loadings	7.18								

Two Factors

% Called in the psych package psych::fa2latex % Called in the psych package Post.EFA.Results2

 $\begin{array}{c} \text{Table 32: fa2latex} \\ \text{A factor analysis table from the psych package in R} \end{array}$

		J 1			
Variable	PA1	PA2	h2	u2	com
Healthy_Rel.n	0.76	0.00	0.57	0.43	1.00
Communicate.n	0.85	-0.04	0.69	0.31	1.00
ConflictManagement.n	0.81	-0.03	0.63	0.37	1.00
RightPartner.n	0.88	-0.16	0.63	0.37	1.06
LearnPartner.n	0.84	0.04	0.74	0.26	1.00
PaceRelationship.n	0.75	0.06	0.62	0.38	1.01
WarningSigns.n	0.87	-0.02	0.74	0.26	1.00
LearnedGrowingUp.n	0.11	0.70	0.59	0.41	1.05
PastRelationships.n	-0.10	0.90	0.71	0.29	1.03
GetAlongParents.n	0.22	0.58	0.55	0.45	1.29
FriendshipsAreLike.n	-0.18	0.97	0.76	0.24	1.07
Fights.n	-0.06	0.77	0.54	0.46	1.01
FeelingsHurt.n	0.28	0.53	0.55	0.45	1.52
RightandWrong.n	0.10	0.74	0.66	0.34	1.04
ad 1 1.	4.05	4.04			
SS loadings	4.95	4.04			
PA1	1.00	0.62			
PA2	0.62	1.00			

Three Factors

% Called in the psych package psych::fa2latex % Called in the psych package Post.EFA.Results3

A factor analysis table from the psych package in R										
Variable	PA2	PA1	PA3	h2	u2	co				
Healthy_Rel.n	0.05	0.75	-0.02	0.59	0.41	1.0				
Communicate.n	0.01	0.82	0.02	0.70	0.30	1.0				
ConflictManagement.n	0.04	0.84	-0.09	0.68	0.32	1.0				
RightPartner.n	-0.10	0.89	-0.03	0.67	0.33	1.0				
LearnPartner.n	0.02	0.67	0.27	0.74	0.26	1.3				
PaceRelationship.n	0.06	0.61	0.21	0.62	0.38	1.2				
WarningSigns.n	-0.18	0.54	0.71	0.98	0.02	2.0				
LearnedGrowingUp.n	0.75	0.17	-0.15	0.62	0.38	1.1				
PastRelationships.n	0.92	-0.06	-0.09	0.71	0.29	1.0				
GetAlongParents.n	0.57	0.16	0.10	0.55	0.45	1.2				
FriendshipsAreLike.n	1.00	-0.14	-0.10	0.77	0.23	1.0				
Fights.n	0.75	-0.11	0.08	0.55	0.45	1.0				
FeelingsHurt.n	0.48	0.09	0.32	0.60	0.40	1.8				
RightandWrong.n	0.75	0.09	0.00	0.65	0.35	1.0				
SS loadings	4.08	4.29	1.05							
PA2	1.00	0.59	0.55							
PA1	0.59	1.00	0.53							
PA3	0.55	0.53	1.00							

Four Factors

% Called in the psych package psych::fa2latex % Called in the psych package Post.EFA.Results4

Table 34: fa2latex

A factor analysis table from the psych package in R									
Variable	PA1	PA2	PA3	PA4	h2	u2	com		
Healthy_Rel.n	0.75	0.03	0.01	-0.01	0.59	0.41	1.00		
Communicate.n	0.87	0.09	-0.15	0.03	0.73	0.27	1.08		
ConflictManagement.n	0.84	0.01	0.02	-0.08	0.67	0.33	1.02		
RightPartner.n	0.87	-0.17	0.10	-0.04	0.67	0.33	1.10		
LearnPartner.n	0.72	0.09	-0.11	0.26	0.76	0.24	1.35		
PaceRelationship.n	0.62	0.02	0.09	0.18	0.62	0.38	1.21		
WarningSigns.n	0.59	-0.14	0.00	0.68	1.01	-0.01	2.04		
LearnedGrowingUp.n	0.17	0.64	0.14	-0.15	0.61	0.39	1.38		
PastRelationships.n	-0.01	0.98	-0.13	-0.06	0.76	0.24	1.04		
GetAlongParents.n	-0.05	0.12	0.92	0.00	0.95	0.05	1.04		
FriendshipsAreLike.n	-0.12	0.91	0.08	-0.08	0.76	0.24	1.07		
Fights.n	-0.06	0.81	-0.11	0.11	0.59	0.41	1.08		
FeelingsHurt.n	0.10	0.36	0.23	0.26	0.59	0.41	2.75		
RightandWrong.n	0.11	0.69	0.07	0.00	0.65	0.35	1.07		
SS loadings	4.35	3.59	1.09	0.92					
PA1	1.00	0.56	0.58	0.45					
PA2	0.56	1.00	0.65	0.44					
PA3	0.58	0.65	1.00	0.40					
PA4	0.45	0.44	0.40	1.00					

Five Factors

% Called in the psych package psych::fa2latex % Called in the psych package Post.EFA.Results5

Table 35: fa2latex

A factor analysis table from the psych package in R									
Variable	PA1	PA2	PA3	PA4	PA5	h2	u2	com	
Healthy_Rel.n	0.73	0.12	-0.04	0.05	-0.04	0.61	0.39	1.07	
Communicate.n	0.79	-0.05	0.05	-0.21	0.32	0.78	0.22	1.50	
ConflictManagement.n	0.74	0.00	-0.05	0.02	0.15	0.66	0.34	1.09	
RightPartner.n	0.84	-0.04	-0.08	0.14	-0.06	0.71	0.29	1.09	
LearnPartner.n	0.70	0.02	0.32	-0.13	0.08	0.78	0.22	1.51	
PaceRelationship.n	0.62	0.04	0.19	0.11	-0.04	0.62	0.38	1.27	
WarningSigns.n	0.70	-0.05	0.64	0.03	-0.29	0.95	0.05	2.35	
LearnedGrowingUp.n	0.04	0.32	-0.12	0.11	0.59	0.73	0.27	1.74	
PastRelationships.n	0.02	0.93	-0.05	-0.09	0.03	0.78	0.22	1.03	
GetAlongParents.n	-0.01	0.13	0.11	0.73	0.08	0.83	0.17	1.14	
FriendshipsAreLike.n	-0.09	0.87	-0.07	0.12	0.03	0.78	0.22	1.08	
Fights.n	-0.01	0.75	0.15	-0.10	-0.03	0.60	0.40	1.12	
FeelingsHurt.n	0.03	0.07	0.47	0.21	0.26	0.70	0.30	2.08	
RightandWrong.n	0.10	0.57	0.04	0.09	0.14	0.64	0.36	1.26	
SS loadings	4.18	2.97	1.15	0.91	0.94				
PA1	1.00	0.46	0.42	0.50	0.47				
PA2	0.46	1.00	0.56	0.57	0.64				
PA3	0.42	0.56	1.00	0.39	0.54				
PA4	0.50	0.57	0.39	1.00	0.48				
PA5	0.47	0.64	0.54	0.48	1.00				

2.3 Change

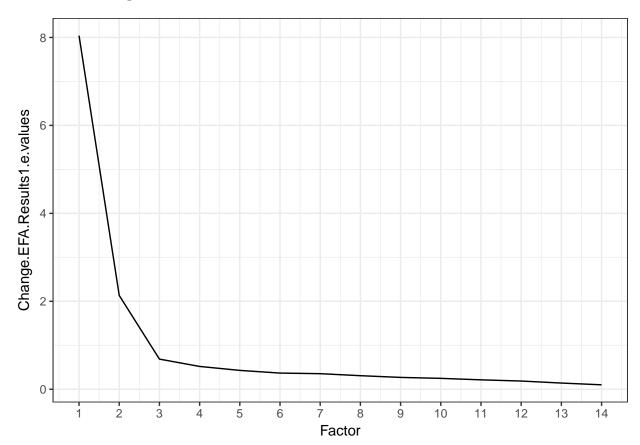
Warning in fac(r = r, nfactors = nfactors, n.obs = n.obs, rotate = rotate, : A loading greater than abs(1) was detected. Examine the loadings carefully.

Warning in fac(r = r, nfactors = nfactors, n.obs = n.obs, rotate = rotate, : A loading greater than abs(1) was detected. Examine the loadings carefully.

Warning in fac(r = r, nfactors = nfactors, n.obs = n.obs, rotate = rotate, : A loading greater than abs(1) was detected. Examine the loadings carefully.

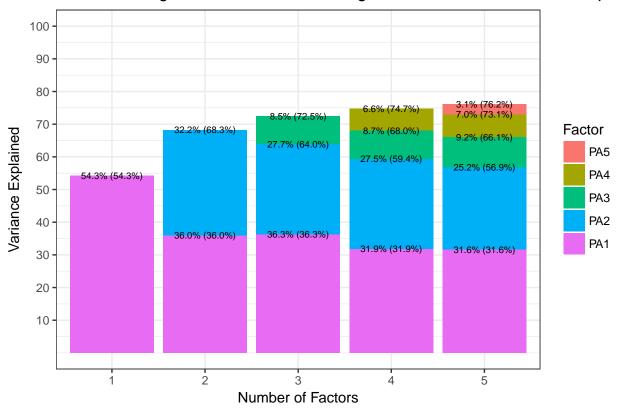
2.3.0.1 Determining Number of Factors

2.3.0.1.1 Screeplot



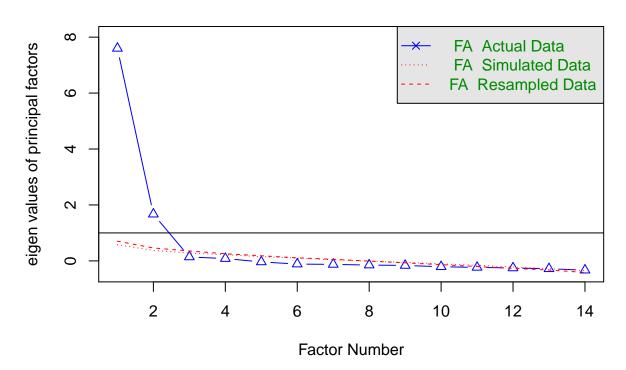
2.3.0.1.2 Proportion of Variance

EFA on Change Retro-Pre to Post-Program Assessment: Variance Explai



2.3.0.1.3 Parallel Analysis

Parallel Analysis Scree Plots



Parallel analysis suggests that the number of factors = 2 and the number of components = NA

2.3.0.1.4 EFA Results

One Factor

Factor analysis with Call: psych::fa(r = Change_vars, nfactors = 1, rotate = "Promax", fm = "pa", cor = "cor")

Test of the hypothesis that 1 factor is sufficient. The degrees of freedom for the model is 77 and the objective function was 4.09 The number of observations was 188 with Chi Square = 738.85 with prob < 9.2e-109

The root mean square of the residuals (RMSA) is 0.13 The df corrected root mean square of the residuals is 0.15

Tucker Lewis Index of factoring reliability = 0.637 RMSEA index = 0.218 and the 10 % confidence intervals are 0.2 0.229 BIC = 335.64

Two Factors

Factor analysis with Call: psych::fa(r = Change_vars, nfactors = 2, rotate = "Promax", fm = "pa", cor = "cor")

Test of the hypothesis that 2 factors are sufficient. The degrees of freedom for the model is 64 and the objective function was 0.96 The number of observations was 188 with Chi Square = 172.35 with prob < 7e-12

The root mean square of the residuals (RMSA) is 0.03 The df corrected root mean square of the residuals is 0.04

Tucker Lewis Index of factoring reliability = 0.928 RMSEA index = 0.098 and the 10 % confidence intervals are 0.078 0.112 BIC = -162.78 With factor correlations of PA1 PA2 PA1 1.0 0.6 PA2 0.6 1.0

Three Factors

Factor analysis with Call: psych::fa(r = Change_vars, nfactors = 3, rotate = "Promax", fm = "pa", cor = "cor")

Test of the hypothesis that 3 factors are sufficient. The degrees of freedom for the model is 52 and the objective function was 0.59 The number of observations was 188 with Chi Square = 105.96 with prob < 1.5e-0.5

The root mean square of the residuals (RMSA) is 0.02 The df corrected root mean square of the residuals is 0.03

Tucker Lewis Index of factoring reliability = 0.956 RMSEA index = 0.077 and the 10 % confidence intervals are 0.054 0.095 BIC = -166.34 With factor correlations of PA1 PA2 PA3 PA1 1.00 0.62 0.41 PA2 0.62 1.00 0.68 PA3 0.41 0.68 1.00

Four Factors

Factor analysis with Call: psych::fa(r = Change_vars, nfactors = 4, rotate = "Promax", fm = "pa", cor = "cor")

Test of the hypothesis that 4 factors are sufficient. The degrees of freedom for the model is 41 and the objective function was 0.36 The number of observations was 188 with Chi Square = 63.61 with prob < 0.013

The root mean square of the residuals (RMSA) is 0.02 The df corrected root mean square of the residuals is 0.02

Tucker Lewis Index of factoring reliability = 0.976 RMSEA index = 0.058 and the 10 % confidence intervals are 0.025 0.079 BIC = -151.09 With factor correlations of PA1 PA2 PA3 PA4 PA1 1.00 0.59 0.43 0.65 PA2 0.59 1.00 0.70 0.51 PA3 0.43 0.70 1.00 0.36 PA4 0.65 0.51 0.36 1.00

Five Factors

Factor analysis with Call: psych::fa(r = Change_vars, nfactors = 5, rotate = "Promax", fm = "pa", cor = "cor")

Test of the hypothesis that 5 factors are sufficient. The degrees of freedom for the model is 31 and the objective function was 0.19 The number of observations was 188 with Chi Square = 34.04 with prob < 0.32

The root mean square of the residuals (RMSA) is 0.01 The df corrected root mean square of the residuals is 0.02

Tucker Lewis Index of factoring reliability = 0.996 RMSEA index = 0.029 and the 10 % confidence intervals are 0.0061 BIC = -128.29 With factor correlations of PA1 PA2 PA3 PA4 PA5 PA1 1.00 0.56 0.46 0.66 0.42 PA2 0.56 1.00 0.73 0.49 0.38 PA3 0.46 0.73 1.00 0.40 0.33 PA4 0.66 0.49 0.40 1.00 0.43 PA5 0.42 0.38 0.33 0.43 1.00

2.3.0.1.5 Comparing Loadings

One Factor

% Called in the psych package psych::fa2latex % Called in the psych package Change.EFA.Results1

Table 36: fa2latex

A factor analysis table from the psych package in R									
Variable	PA1	PA1.1	PA1.2	com					
Healthy_Rel_Change	0.74	0.55	0.45	1					
Communicate_Change	0.71	0.50	0.50	1					
$ConflictManagement_Change$	0.75	0.56	0.44	1					
RightPartner_Change	0.80	0.63	0.37	1					
LearnPartner_Change	0.83	0.69	0.31	1					
PaceRelationship_Change	0.79	0.62	0.38	1					
WarningSigns_Change	0.79	0.63	0.37	1					
LearnedGrowingUp_Change	0.70	0.50	0.50	1					
PastRelationships_Change	0.71	0.50	0.50	1					
GetAlongParents_Change	0.74	0.55	0.45	1					
FriendshipsAreLike_Change	0.77	0.60	0.40	1					
Fights_Change	0.56	0.32	0.68	1					
FeelingsHurt_Change	0.69	0.47	0.53	1					
RightandWrong_Change	0.69	0.48	0.52	1					
SS loadings	7.6								

Two Factors

% Called in the psych package psych::fa2latex % Called in the psych package Change.EFA.Results2

 $\begin{array}{c} \text{Table 37: fa2latex} \\ \text{A factor analysis table from the psych package in R} \end{array}$

Variable	PA1	PA2	h2	u2	com
Healthy_Rel_Change	0.78	0.04	0.65	0.35	1.00
Communicate_Change	0.78	0.00	0.61	0.39	1.00
ConflictManagement_Change	0.74	0.08	0.63	0.37	1.03
RightPartner_Change	0.95	-0.06	0.83	0.17	1.01
LearnPartner_Change	0.89	0.03	0.83	0.17	1.00
PaceRelationship_Change	0.88	0.00	0.77	0.23	1.00
WarningSigns_Change	0.84	0.03	0.75	0.25	1.00
LearnedGrowingUp_Change	0.05	0.76	0.62	0.38	1.01
PastRelationships_Change	0.01	0.80	0.66	0.34	1.00
GetAlongParents_Change	0.00	0.85	0.73	0.27	1.00
FriendshipsAreLike_Change	0.07	0.82	0.74	0.26	1.01
Fights_Change	-0.07	0.72	0.46	0.54	1.02
FeelingsHurt_Change	0.04	0.74	0.59	0.41	1.01
RightandWrong_Change	-0.06	0.86	0.69	0.31	1.01
SS loadings	5.04	4.52			
		·			
PA1	1.00	0.60			
PA2	0.60	1.00			

Three Factors

% Called in the psych package psych::fa2latex % Called in the psych package Change.EFA.Results3

Table 38: fa2latex

A factor analysis table from the psych package in R								
Variable	PA1	PA2	PA3	h2	u2	com		
Healthy_Rel_Change	0.78	0.10	-0.08	0.65	0.35	1.06		
Communicate_Change	0.78	0.05	-0.07	0.61	0.39	1.02		
ConflictManagement_Change	0.75	0.04	0.04	0.63	0.37	1.01		
RightPartner_Change	0.97	-0.13	0.06	0.84	0.16	1.04		
LearnPartner_Change	0.89	0.05	-0.04	0.83	0.17	1.01		
PaceRelationship_Change	0.88	0.05	-0.08	0.77	0.23	1.02		
WarningSigns_Change	0.87	-0.09	0.12	0.76	0.24	1.06		
LearnedGrowingUp_Change	0.07	0.55	0.25	0.61	0.39	1.43		
PastRelationships_Change	0.00	0.81	0.01	0.66	0.34	1.00		
GetAlongParents_Change	-0.04	0.97	-0.10	0.78	0.22	1.02		
FriendshipsAreLike_Change	0.01	1.02	-0.18	0.84	0.16	1.07		
Fights_Change	-0.02	0.01	0.94	0.88	0.12	1.00		
FeelingsHurt_Change	0.08	0.45	0.34	0.61	0.39	1.93		
RightandWrong_Change	-0.05	0.78	0.10	0.68	0.32	1.04		
SS loadings	5.08	3.87	1.19					
PA1	1.00	0.62	0.41					
PA2	0.62	1.00	0.68					
PA3	0.41	0.68	1.00					

Four Factors

% Called in the psych package psych::fa2latex % Called in the psych package Change.EFA.Results4

Table 39: fa2latex

A factor analysis table from the psych package in R							
Variable	PA1	PA2	PA3	PA4	h2	u2	com
Healthy_Rel_Change	0.59	0.08	-0.07	0.27	0.66	0.34	1.49
Communicate_Change	0.38	-0.03	-0.05	0.62	0.78	0.22	1.68
ConflictManagement_Change	0.47	-0.01	0.07	0.41	0.68	0.32	2.01
RightPartner_Change	1.00	-0.10	0.05	-0.05	0.87	0.13	1.03
LearnPartner_Change	0.93	0.09	-0.06	-0.05	0.86	0.14	1.03
PaceRelationship_Change	0.89	0.09	-0.10	-0.02	0.79	0.21	1.05
WarningSigns_Change	0.87	-0.06	0.12	-0.02	0.77	0.23	1.05
LearnedGrowingUp_Change	-0.02	0.52	0.27	0.12	0.62	0.38	1.63
PastRelationships_Change	0.02	0.82	0.00	-0.03	0.67	0.33	1.00
GetAlongParents_Change	-0.03	0.96	-0.10	0.00	0.78	0.22	1.02
FriendshipsAreLike_Change	0.03	1.02	-0.19	-0.01	0.84	0.16	1.07
Fights_Change	-0.03	0.01	0.94	-0.03	0.86	0.14	1.00
FeelingsHurt_Change	0.09	0.45	0.36	-0.03	0.61	0.39	2.01
RightandWrong_Change	-0.02	0.78	0.10	-0.05	0.68	0.32	1.05
SS loadings	4.46	3.85	1.21	0.93			
PA1	1.00	0.59	0.43	0.65			
PA2	0.59	1.00	0.70	0.51			
PA3	0.43	0.70	1.00	0.36			
PA4	0.65	0.51	0.36	1.00			

Five Factors

% Called in the psych package psych::fa2latex % Called in the psych package Change.EFA.Results5

Table 40: fa2latex

A factor analysis table from the psych package in R								
Variable	PA1	PA2	PA3	PA4	PA5	h2	u2	com
Healthy_Rel_Change	0.55	0.02	-0.06	0.27	0.15	0.68	0.32	1.64
Communicate_Change	0.37	-0.01	-0.06	0.65	-0.05	0.78	0.22	1.62
ConflictManagement_Change	0.47	0.01	0.06	0.43	-0.05	0.68	0.32	2.05
RightPartner_Change	1.03	-0.03	0.04	-0.04	-0.17	0.91	0.09	1.06
LearnPartner_Change	0.92	0.12	-0.06	-0.03	-0.04	0.85	0.15	1.05
PaceRelationship_Change	0.88	0.01	-0.09	-0.07	0.23	0.84	0.16	1.17
WarningSigns_Change	0.85	-0.07	0.13	0.00	0.01	0.77	0.23	1.06
LearnedGrowingUp_Change	-0.03	0.43	0.32	0.12	0.12	0.63	0.37	2.25
PastRelationships_Change	-0.02	0.69	0.03	-0.09	0.38	0.75	0.25	1.62
GetAlongParents_Change	-0.01	0.99	-0.13	0.03	-0.03	0.81	0.19	1.04
FriendshipsAreLike_Change	0.05	0.99	-0.19	0.01	0.05	0.84	0.16	1.09
Fights_Change	-0.03	-0.02	0.95	-0.04	0.00	0.82	0.18	1.01
FeelingsHurt_Change	0.10	0.43	0.39	-0.01	-0.08	0.63	0.37	2.18
RightandWrong_Change	-0.02	0.69	0.14	-0.05	0.13	0.67	0.33	1.17
SS loadings	4.43	3.53	1.29	0.98	0.43			
PA1	1.00	0.56	0.46	0.66	0.42			
PA2	0.56	1.00	0.73	0.49	0.38			
PA3	0.46	0.73	1.00	0.40	0.33			
PA4	0.66	0.49	0.40	1.00	0.43			
PA5	0.42	0.38	0.33	0.43	1.00			

3 Confirmatory Factor Analysis (On Analytic Sample)

3.1 Retrospective Pre

3.1.1 Model Fit

lavaan (0.6-1) converged normally after 44 iterations

	Used	Total	
Number of observations	115	134	
Estimator	ML	Robust	
Model Fit Test Statistic	110.604	88.993	
Degrees of freedom	71	. –	
P-value (Chi-square)	0.002	0.073	
Scaling correction factor		1.243	
for the Yuan-Bentler correction (Mplu	s variant)		
Model test baseline model:			
Minimum Function Test Statistic	1184.039	868.766	
Degrees of freedom	91		
P-value	0.000		
1 14140	0.000	0.000	
User model versus baseline model:			
Comparative Fit Index (CFI)	0.964	0.977	
Tucker-Lewis Index (TLI)	0.954		
•			
Robust Comparative Fit Index (CFI)		NA	
Robust Tucker-Lewis Index (TLI)		NA	
Loglikelihood and Information Criteria:			
Loglikelihood user model (HO)		-1770.777	
Loglikelihood unrestricted model (H1)	-1715.475	-1715.475	
Number of free parameters	34	34	
Akaike (AIC)	~ -	3609.554	
Bayesian (BIC)	3702.882		
Sample-size adjusted Bayesian (BIC)	3595.414	3595.414	
bampie Size adjusted bayesian (bio)	3333.414	5555.414	
Root Mean Square Error of Approximation:			
RMSEA	0.070	0.047	
90 Percent Confidence Interval	0.043 0.094	0.000	0.072
P-value RMSEA <= 0.05	0.104	0.553	0.012
I Value INIDEA \- 0.00	0.104	0.000	

Robust RMSEA				NA
90 Percent Confidence Inter	val			0.000
00 1020000 0000000 20000				
Standardized Root Mean Square	Residual:			
SRMR			0.055	0.055
Parameter Estimates:				
Information		Obs	erved	
Observed information based	on	Не	ssian	
Standard Errors	Robu	st.huber.	white	
Latent Variables:				
	Estimate	Std.Err	z-value	P(> z)
<pre>Healthy_Rel_Skills_Before =</pre>	~			
Hlthy_Rl_Bfr.n	1.000			
Communct_Bfr.n	0.777	0.129	6.043	0.000
CnflctMngmn_B.	0.936	0.090	10.354	0.000
Partner_Selection_Before =~				
RghtPrtnr_Bfr.	1.000			
LrnPrtnr_Bfr.n	1.085	0.069		0.000
PcRltnshp_Bfr.	1.002	0.097		0.000
${\tt WrnngSgns_Bfr.}$	0.962	0.100	9.581	0.000
Past_Rel_Behav_Before =~				
LrndGrwngUp_B.	1.000			
PstRltnshps_B.	0.904	0.103		0.000
${\tt GtAlngPrnts_B}$.	1.087	0.112		0.000
${\sf FrndshpsArL_B}$.	1.134	0.102	11.104	0.000
Rel_Behav_Attit_Before =~				
Fights_Befor.n	0.863	0.097	8.902	0.000
FlngsHrt_Bfr.n	1.000			
${\tt RghtndWrng_Bf.}$	0.797	0.099	8.083	0.000
Std.lv Std.all				
0.050				
0.850 0.856				
0.661 0.740				
0.796 0.823				
0.871 0.912				
0.945 0.914				
0.873 0.835				
0.838 0.808				
0.826 0.819				
0.746 0.740				

NA

0.746

0.898

0.718

0.806

0.936	0.838
0.724	0.664
0.838	0.818
0.668	0.730

Covariances:

	Estimate	Std.Err	z-value	P(> z)
<pre>Healthy_Rel_Skills_Before ~~</pre>				
Prtnr_Slctn_Bf	0.633	0.103	6.143	0.000
Pst_Rl_Bhv_Bfr	0.382	0.100	3.818	0.000
Rl_Bhv_Attt_Bf	0.431	0.112	3.853	0.000
Partner_Selection_Before ~~				
Pst_Rl_Bhv_Bfr	0.418	0.086	4.839	0.000
Rl_Bhv_Attt_Bf	0.406	0.095	4.295	0.000
Past_Rel_Behav_Before ~~				
Rl_Bhv_Attt_Bf	0.614	0.107	5.766	0.000
Std.lv Std.all				
0.855 0.855				
0.545 0.545				
0.605 0.605				
0.582 0.582				
0.557 0.557				
0.887 0.887				

Variances:

	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
.Hlthy_Rl_Bfr.n	0.264	0.061	4.310	0.000	0.264	0.267
.Communct_Bfr.n	0.361	0.113	3.198	0.001	0.361	0.453
.CnflctMngmn_B.	0.301	0.064	4.742	0.000	0.301	0.322
.RghtPrtnr_Bfr.	0.154	0.035	4.383	0.000	0.154	0.169
.LrnPrtnr_Bfr.n	0.176	0.059	2.990	0.003	0.176	0.165
$. {\tt PcRltnshp_Bfr}.$	0.331	0.083	4.000	0.000	0.331	0.303
.WrnngSgns_Bfr.	0.373	0.085	4.415	0.000	0.373	0.347
.LrndGrwngUp_B.	0.333	0.071	4.715	0.000	0.333	0.329
$. {\tt PstRltnshps_B}.$	0.522	0.099	5.279	0.000	0.522	0.484
$.{\tt GtAlngPrnts_B}.$	0.433	0.082	5.305	0.000	0.433	0.350
.FrndshpsArL_B.	0.370	0.116	3.187	0.001	0.370	0.297
.Fights_Befor.n	0.665	0.130	5.130	0.000	0.665	0.560
.FlngsHrt_Bfr.n	0.347	0.068	5.074	0.000	0.347	0.331
.RghtndWrng_Bf.	0.390	0.082	4.740	0.000	0.390	0.467
Hlthy_Rl_Skl_B	0.723	0.130	5.570	0.000	1.000	1.000
Prtnr_Slctn_Bf	0.759	0.105	7.258	0.000	1.000	1.000
Pst_Rl_Bhv_Bfr	0.682	0.127	5.347	0.000	1.000	1.000
Rl_Bhv_Attt_Bf	0.703	0.129	5.453	0.000	1.000	1.000

3.1.2 Modification Indices

```
lhs op rhs mi
RightPartner_Before.n ~~ LearnPartner_Before.n 14.77978
Rel_Behav_Attit_Before =~ LearnedGrowingUp_Before.n 12.94775
PaceRelationship_Before.n ~~ WarningSigns_Before.n 11.67927
epc sepc.lv sepc.all sepc.nox
0.1267210 0.1267210 0.7687010 0.7687010
1.0215735 0.8563098 0.8499409 0.8499409
3 0.1349317 0.1349317 0.3835492 0.3835492
```

3.1.3 Dropping Fights (to improve Post Model Fit)

lavaan (0.6-1) converged normally after 41 iterations

	**		
	Use		
Number of observations	11	5 134	
Estimator	M	L Robust	
Model Fit Test Statistic	86.66		
Degrees of freedom	59.00		
-	0.01		
P-value (Chi-square)	0.01		
Scaling correction factor	a	1.191	
for the Yuan-Bentler correction (Mplu	.s variant)		
Model test baseline model:			
Minimum Function Test Statistic	1106.44	5 813.818	
Degrees of freedom	78		
P-value	0.00		
User model versus baseline model:			
Comparative Fit Index (CFI)	0.07	3 0.981	
Tucker-Lewis Index (TLI)	0.96		
Tucker Lewis Index (ILI)	0.50	1 0.370	
Robust Comparative Fit Index (CFI)		NA	
Robust Tucker-Lewis Index (TLI)		NA	
Nobabo Tacher Bowrb Inden (IEI)		****	
Loglikelihood and Information Criteria:			
Loglikelihood user model (HO)	-1624 49	1 -1624.491	
Loglikelihood unrestricted model (H1)		7 -1581.157	
Logitketinood uniestiicted model (ni)	1001.10	1001.107	
Number of free parameters	3:	2 32	
Akaike (AIC)	3312.98		
Bayesian (BIC)	3400.82		
Sample-size adjusted Bayesian (BIC)	3299.67		
bampio bizo dajabioa bajobian (bio)	0200.01	0200.071	
Root Mean Square Error of Approximation:			
RMSEA	0.064	1 0.045	
90 Percent Confidence Interval	0.031 0.09		0.074
P-value RMSEA <= 0.05	0.20		0.01 T
1 14140 1410111 - 0.00	0.20	0.001	
Robust RMSEA		NA	
90 Percent Confidence Interval		0.000	NA

Standardized Root Mean Square Residual:

SRMR 0.053 0.053

Parameter Estimates:

Information Observed
Observed information based on Hessian
Standard Errors Robust.huber.white

Latent Variables:

Latent Var	clables:				
		Estimate	Std.Err	z-value	P(> z)
${\tt Healthy_}$	Rel_Skills_Before =~				
${\tt Hlthy_}$	Rl_Bfr.n	1.000			
Commun	nct_Bfr.n	0.775	0.128	6.036	0.000
Cnflct	Mngmn_B.	0.932	0.090	10.411	0.000
Partner_	Selection_Before =~				
RghtPr	ctnr_Bfr.	1.000			
LrnPrt	nr_Bfr.n	1.086	0.069	15.777	0.000
PcRltn	shp_Bfr.	1.003	0.098	10.264	0.000
WrnngS	gns_Bfr.	0.963	0.101	9.552	0.000
Past_Rel	_Behav_Before =~				
LrndGr	wngUp_B.	1.000			
PstRlt	nshps_B.	0.919	0.103	8.964	0.000
GtAlng	Prnts_B.	1.107	0.113	9.820	0.000
Frndsh	npsArL_B.	1.159	0.102	11.372	0.000
Rel_Beha	nv_Attit_Before =~				
FlngsH	Irt_Bfr.n	1.000			
Rghtnd	lWrng_Bf.	0.808	0.117	6.917	0.000
Std.lv	Std.all				
0.852	0.858				
0.660	0.739				
0.794	0.821				
0.871	0.911				
0.945	0.914				
0.874	0.835				
0.839	0.809				
0.815	0.809				
0.749	0.721				
0.902	0.810				
0.945	0.846				
0.821	0.801				
0.664	0.726				

Covariances:

		Estimate	Std.Err	z-value	P(> z)
Healthy_Rel_Sk:	ills_Before ~~				
Prtnr_Slctn_H	Bf	0.634	0.103	6.174	0.000
Pst_Rl_Bhv_B	fr	0.377	0.099	3.791	0.000
Rl_Bhv_Attt_H	Bf	0.423	0.120	3.530	0.000
Partner_Select:	ion_Before ~~				
Pst_Rl_Bhv_B	fr	0.412	0.086	4.799	0.000
Rl_Bhv_Attt_H	Bf	0.387	0.101	3.841	0.000
Past_Rel_Behav	_Before ~~				
Rl_Bhv_Attt_H	Bf	0.607	0.108	5.623	0.000
Std.lv Std.a	11				
0.855 0.89	55				
0.542 0.54	42				
0.605 0.60	05				
0.581 0.58	31				
0.542 0.54	42				
0.908 0.90	08				

Variances:

	Estimate	Std.Err	z-value	P(> z)	${\tt Std.lv}$	Std.all
.Hlthy_Rl_Bfr.n	0.260	0.061	4.274	0.000	0.260	0.264
.Communct_Bfr.n	0.361	0.113	3.205	0.001	0.361	0.453
$. {\tt CnflctMngmn_B}.$	0.305	0.064	4.777	0.000	0.305	0.326
.RghtPrtnr_Bfr.	0.155	0.035	4.381	0.000	0.155	0.170
.LrnPrtnr_Bfr.n	0.177	0.059	2.986	0.003	0.177	0.165
$. {\tt PcRltnshp_Bfr}.$	0.331	0.083	3.990	0.000	0.331	0.302
.WrnngSgns_Bfr.	0.372	0.085	4.396	0.000	0.372	0.346
.LrndGrwngUp_B.	0.351	0.075	4.711	0.000	0.351	0.346
$. {\tt PstRltnshps_B}.$	0.518	0.096	5.381	0.000	0.518	0.480
.GtAlngPrnts_B.	0.426	0.084	5.055	0.000	0.426	0.344
.FrndshpsArL_B.	0.355	0.112	3.169	0.002	0.355	0.284
.FlngsHrt_Bfr.n	0.375	0.090	4.170	0.000	0.375	0.358
.RghtndWrng_Bf.	0.396	0.103	3.849	0.000	0.396	0.473
Hlthy_Rl_Skl_B	0.726	0.130	5.584	0.000	1.000	1.000
Prtnr_Slctn_Bf	0.758	0.105	7.248	0.000	1.000	1.000
Pst_Rl_Bhv_Bfr	0.664	0.127	5.237	0.000	1.000	1.000
Rl_Bhv_Attt_Bf	0.674	0.141	4.795	0.000	1.000	1.000

3.1.4 Modification Indices

lhs op rhs mi epc
RightPartner_Before.n ~~ LearnPartner_Before.n 15.13632 0.1279175
PaceRelationship_Before.n ~~ WarningSigns_Before.n 11.53490 0.1338872
sepc.lv sepc.all sepc.nox
1 0.1279175 0.7731369 0.7731369
2 0.1338872 0.3815659 0.3815659

3.2 Post

3.2.1 Model Fit

Warning in law_object_post_check(object): lavaan WARNING: covariance matrix of latent variable is not positive definite;
use inspect(fit,"cov.lv") to investigate.

lavaan (0.6-1) converged normally after 73 iterations

	Used	Total	
Number of observations	124	134	
Estimator	ML	Robust	
Model Fit Test Statistic	214.208	157.717	
Degrees of freedom	71	71	
P-value (Chi-square)	0.000	0.000	
Scaling correction factor		1.358	
for the Yuan-Bentler correction (Mpl	us variant)		
Model test baseline model:			
Minimum Function Test Statistic	1315.909	768.734	
Degrees of freedom	91	91	
P-value	0.000	0.000	
User model versus baseline model:			
Comparative Fit Index (CFI)	0.883	0.872	
Tucker-Lewis Index (TLI)	0.850	0.836	
Robust Comparative Fit Index (CFI)		NA	
Robust Tucker-Lewis Index (TLI)		NA	
Loglikelihood and Information Criteria:			
Loglikelihood user model (HO)	-1209.601	-1209.601	
Loglikelihood unrestricted model (H1)	-1102.496	-1102.496	
Number of free parameters	34	34	
Akaike (AIC)	2487.201	2487.201	
Bayesian (BIC)	2583.091	2583.091	
Sample-size adjusted Bayesian (BIC)	2475.581	2475.581	
Root Mean Square Error of Approximation:			
RMSEA	0.128	0.099	
90 Percent Confidence Interval	0.108 0.147	0.081	0.117

P-value RMSEA <= 0.05			0.	000	0.000
r varas imismi i oros			٠.		0.000
Robust RMSEA					NA
90 Percent Confidence	Interval				NA
Chandardia d Dark Mana C	1 D	4 A A .			
Standardized Root Mean S	square kes	idual:			
SRMR			0.	090	0.090
Parameter Estimates:					
Information			Obser	ved	
Observed information b	ased on		Hess	ian	
Standard Errors		Robust	.huber.wh	ite	
Latent Variables:	Patimata	C+ 3 E	1	D(> -)	C+3]
Healthy Del Chille -	Estimate	Std.Err	z-value	P(> z)	Std.lv
Healthy_Rel_Skills =~	1 000				0.423
Healthy_Rel.n Communicate.n	1.000 1.245	0.189	6.603	0.000	0.423
CnflctMngmnt.n	1.313	0.190	6.907	0.000	0.555
Partner_Selection =~	4 000				0 544
RightPartner.n	1.000	0 007	10.050	0 000	0.514
LearnPartner.n	1.066	0.087		0.000	0.548
PaceReltnshp.n	1.050	0.096		0.000	0.540
${ t Warning Signs.n}$	1.090	0.102	10.640	0.000	0.561
Past_Rel_Behav =~					
${\tt PastRltnshps.n}$	1.000				0.636
${ t GetAlngPrnts.n}$	0.702	0.258	2.717	0.007	0.446
${ t FrndshpsArLk.n}$	1.021	0.066	15.491	0.000	0.650
Rel_Behav_Attit =~					
Fights.n	1.529	0.429	3.567	0.000	0.604
${ t LerndGrwngUp.n}$	1.052	0.168	6.262	0.000	0.415
FeelingsHurt.n	1.000				0.395
${\tt RightandWrng.n}$	1.150	0.218	5.271	0.000	0.454
Std.all					
0.735					
0.841					
0.785					
0.705					
0.735					
0.893					
0.842					
0.893					
0.843					
0.010					

NA

0.626

0.884

0.747

0.661

0.614

0.745

Covariances:

	Estimate	Std.Err	z-value	P(> z)	Std.lv
<pre>Healthy_Rel_Skills ~~</pre>					
Partner_Selctn	0.207	0.037	5.556	0.000	0.952
Past_Rel_Behav	0.120	0.038	3.165	0.002	0.445
Rel_Behav_Attt	0.117	0.040	2.925	0.003	0.700
Partner_Selection ~~					
Past_Rel_Behav	0.161	0.043	3.712	0.000	0.493
Rel_Behav_Attt	0.147	0.046	3.231	0.001	0.725
Past_Rel_Behav ~~					
Rel_Behav_Attt	0.242	0.048	5.009	0.000	0.963
Std.all					

0.952

0.445

0.700

0.493

0.725

0.963

Variances:

	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
$. {\tt Healthy_Rel.n}$	0.152	0.030	5.006	0.000	0.152	0.460
.Communicate.n	0.114	0.027	4.188	0.000	0.114	0.292
.CnflctMngmnt.n	0.192	0.045	4.253	0.000	0.192	0.384
.RightPartner.n	0.225	0.053	4.252	0.000	0.225	0.459
$. {\tt LearnPartner.n}$	0.076	0.019	3.997	0.000	0.076	0.202
.PaceReltnshp.n	0.120	0.028	4.216	0.000	0.120	0.291
.WarningSigns.n	0.080	0.027	3.006	0.003	0.080	0.202
$. {\tt PastRltnshps.n}$	0.165	0.073	2.269	0.023	0.165	0.289
$.{\tt GetAlngPrnts.n}$	0.309	0.107	2.899	0.004	0.309	0.608
.FrndshpsArLk.n	0.118	0.033	3.548	0.000	0.118	0.218
.Fights.n	0.289	0.083	3.460	0.001	0.289	0.442
.LerndGrwngUp.n	0.223	0.054	4.143	0.000	0.223	0.563
.FeelingsHurt.n	0.257	0.092	2.781	0.005	0.257	0.622
.RightandWrng.n	0.166	0.063	2.629	0.009	0.166	0.446
Hlthy_Rl_Sklls	0.179	0.038	4.644	0.000	1.000	1.000
Partner_Selctn	0.265	0.062	4.283	0.000	1.000	1.000
Past_Rel_Behav	0.405	0.148	2.730	0.006	1.000	1.000

Rel_Behav_Attt 0.156 0.059 2.663 0.008 1.000 1.000

H1_R_S Prtn_S Ps_R_B R1_B_A

Healthy_Rel_Skills 1.000

Partner_Selection 0.952 1.000

Past_Rel_Behav 0.445 0.493 1.000

Rel_Behav_Attit 0.700 0.725 0.963 1.000

3.2.2 Modification Indices

• No covariances to add that make sense theoretically.

```
lhs op
                                         rhs
                                                   шi
                                                               ерс
         WarningSigns.n ~~
                              FeelingsHurt.n 21.72534
                                                        0.07076666
1
2
      Partner_Selection =~ GetAlongParents.n 20.97305
                                                        0.57395816
3
      Partner_Selection =~
                              FeelingsHurt.n 18.25798
                                                        0.64853489
4
     Healthy_Rel_Skills =~ GetAlongParents.n 17.81929
                                                        0.63657355
5
        Rel_Behav_Attit =~ GetAlongParents.n 17.14802
                                                        1.93249759
6
     Healthy_Rel_Skills =~
                              RightPartner.n 16.33779
                                                        2.77593655
7
  ConflictManagement.n ~~
                              RightPartner.n 16.14992
                                                        0.08519985
8
      Partner_Selection =~
                                    Fights.n 13.49935 -0.66160480
9
     Healthy Rel Skills =~
                                    Fights.n 13.34619 -0.77657476
     Healthy_Rel_Skills =~
                              FeelingsHurt.n 12.05663
10
                                                        0.62259818
         Past Rel Behav =~
                                    Fights.n 11.63467
11
                                                        1.13858738
         Past_Rel_Behav =~
                              FeelingsHurt.n 11.20240 -0.93764407
12
13 FriendshipsAreLike.n ~~
                              FeelingsHurt.n 10.64287 -0.07020155
                              FeelingsHurt.n 10.42659 0.08718744
14
      GetAlongParents.n ~~
       sepc.lv
                 sepc.all
                            sepc.nox
1
    0.07076666 0.4946292
                           0.4946292
2
    0.29520317
                0.4141803
                           0.4141803
3
    0.33356013
                0.5191723
                           0.5191723
4
                0.3774106
                           0.3774106
    0.26899589
5
    0.76286509
                1.0703263
                           1.0703263
6
    1.17302316
                1.6769976
                           1.6769976
7
                0.4103599
   0.08519985
                           0.4103599
  -0.34028236 -0.4210459 -0.4210459
  -0.32815598 -0.4060414 -0.4060414
9
10 0.26309034 0.4094890
                           0.4094890
11 0.72426788 0.8961675
                           0.8961675
12 -0.59644564 -0.9283425 -0.9283425
13 -0.07020155 -0.4032029 -0.4032029
14 0.08718744 0.3095213 0.3095213
```

3.2.3 Dropping Fights

Warning in law_object_post_check(object): lavaan WARNING: covariance matrix of latent variables is not positive definite; use inspect(fit,"cov.lv") to investigate.

lavaan (0.6-1) converged normally after 68 iterations

	00 10010010010		
	Used		
Number of observations	125	134	
Estimator	ML	Robust	
Model Fit Test Statistic	159.582	116.471	
Degrees of freedom	59	59	
P-value (Chi-square)	0.000	0.000	
Scaling correction factor		1.370	
for the Yuan-Bentler correction (Mplu	s variant)		
Model test baseline model:			
Minimum Function Test Statistic	1177.023	666.691	
Degrees of freedom	78	78	
P-value	0.000	0.000	
User model versus baseline model:			
Comparative Fit Index (CFI)	0.908	0.902	
Tucker-Lewis Index (TLI)	0.879	0.871	
Robust Comparative Fit Index (CFI)		NA	
Robust Tucker-Lewis Index (TLI)		NA	
Loglikelihood and Information Criteria:			
Loglikelihood user model (HO)	-1111.712	-1111.712	
Loglikelihood unrestricted model (H1)	-1031.921	-1031.921	
Number of free parameters	32	32	
Akaike (AIC)	2287.424	2287.424	
Bayesian (BIC)	2377.930	2377.930	
Sample-size adjusted Bayesian (BIC)	2276.740	2276.740	
Root Mean Square Error of Approximation:			
RMSEA	0.117	0.088	
90 Percent Confidence Interval	0.095 0.139	0.068	0.108
P-value RMSEA <= 0.05	0.000	0.002	3.100
1 Value IMIDER V 0.00	0.000	0.002	

Robust RMSEA	NA	
90 Percent Confidence Interval	NA	NA

Standardized Root Mean Square Residual:

SRMR 0.078 0.078

Parameter Estimates:

Information	Observed
Observed information based on	Hessian
Standard Errors	Robust.huber.white

Latent Variables:

	Estimate	Std.Err	z-value	P(> z)	${\tt Std.lv}$
<pre>Healthy_Rel_Skills =~</pre>					
Healthy_Rel.n	1.000				0.426
Communicate.n	1.219	0.188	6.492	0.000	0.519
CnflctMngmnt.n	1.312	0.191	6.857	0.000	0.559
Partner_Selection =~					
RightPartner.n	1.000				0.511
LearnPartner.n	1.064	0.089	11.908	0.000	0.544
PaceReltnshp.n	1.048	0.093	11.228	0.000	0.535
WarningSigns.n	1.098	0.108	10.203	0.000	0.561
Past_Rel_Behav =~					
LerndGrwngUp.n	1.000				0.434
PastRltnshps.n	1.411	0.473	2.983	0.003	0.613
${ t GetAlngPrnts.n}$	1.102	0.134	8.244	0.000	0.479
FrndshpsArLk.n	1.444	0.477	3.027	0.002	0.627
Rel_Behav_Attit =~					
FeelingsHurt.n	1.000				0.425
RightandWrng.n	1.013	0.225	4.495	0.000	0.430
Q. 1 33					

Std.all

0.741

0.832

0.793

0.733

0.887

0.836

0.895

0.692

0.814

0.673

0.855

0.663 0.708

Covariances:

	Estimate	Std.Err	z-value	P(> z)	Std.lv
Healthy_Rel_Skills ~~					
Partner_Selctn	0.207	0.037	5.582	0.000	0.950
Past_Rel_Behav	0.092	0.048	1.920	0.055	0.498
Rel_Behav_Attt	0.142	0.038	3.765	0.000	0.783
Partner_Selection ~~					
Past_Rel_Behav	0.120	0.056	2.161	0.031	0.541
Rel_Behav_Attt	0.192	0.049	3.957	0.000	0.886
Past_Rel_Behav ~~					
Rel_Behav_Attt	0.172	0.060	2.881	0.004	0.932
Std.all					

0.950

0.498

0.783

0.541

0.886

0.932

Variances:

	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
$. {\tt Healthy_Rel.n}$	0.149	0.030	4.971	0.000	0.149	0.451
.Communicate.n	0.120	0.028	4.222	0.000	0.120	0.308
$. {\tt CnflctMngmnt.n}$	0.184	0.044	4.147	0.000	0.184	0.372
$.\mathtt{RightPartner.n}$	0.225	0.052	4.334	0.000	0.225	0.463
$. {\tt LearnPartner.n}$	0.080	0.019	4.162	0.000	0.080	0.212
.PaceReltnshp.n	0.123	0.028	4.398	0.000	0.123	0.301
.WarningSigns.n	0.078	0.023	3.395	0.001	0.078	0.200
$. {\tt LerndGrwngUp.n}$	0.205	0.066	3.098	0.002	0.205	0.521
$. {\tt PastRltnshps.n}$	0.191	0.083	2.311	0.021	0.191	0.338
$.{\tt GetAlngPrnts.n}$	0.277	0.106	2.623	0.009	0.277	0.547
.FrndshpsArLk.n	0.145	0.047	3.052	0.002	0.145	0.269
.FeelingsHurt.n	0.230	0.090	2.558	0.011	0.230	0.561
$.\mathtt{RightandWrng.n}$	0.185	0.080	2.304	0.021	0.185	0.499
Hlthy_Rl_Sklls	0.181	0.038	4.711	0.000	1.000	1.000
Partner_Selctn	0.261	0.061	4.262	0.000	1.000	1.000
Past_Rel_Behav	0.189	0.072	2.634	0.008	1.000	1.000
Rel_Behav_Attt	0.180	0.054	3.341	0.001	1.000	1.000

3.2.4 Modification Indices

```
lhs op
                                          rhs
                                                    шi
                                                               ерс
  PastRelationships.n ~~ FriendshipsAreLike.n 26.81387
                                                        0.16099181
   Healthy_Rel_Skills =~
2
                               RightPartner.n 24.58676
                                                        3.04913865
3
       WarningSigns.n ~~
                               FeelingsHurt.n 18.71951
                                                        0.06348357
4
    Partner_Selection =~
                            GetAlongParents.n 17.10371 0.52944491
5
      Rel_Behav_Attit =~
                            GetAlongParents.n 16.79754 1.13916071
6 ConflictManagement.n ~~
                               RightPartner.n 14.76019 0.08039421
7
   Healthy_Rel_Skills =~
                            GetAlongParents.n 13.01616 0.54239922
8
    Partner_Selection =~ FriendshipsAreLike.n 11.64509 -0.40277423
9
 PastRelationships.n ~~
                            GetAlongParents.n 11.16485 -0.09296354
     sepc.lv
               sepc.all
                          sepc.nox
1 0.16099181 0.9677790 0.9677790
2 1.29812552 1.8613103 1.8613103
3 0.06348357 0.4722071 0.4722071
4 0.27055273 0.3803494 0.3803494
5 0.48367197 0.6799575 0.6799575
6 0.08039421 0.3944227 0.3944227
7 0.23091842 0.3246306 0.3246306
8 -0.20582249 -0.2807131 -0.2807131
9 -0.09296354 -0.4039487 -0.4039487
```

3.2.5 Adding Error covariance

Warning in law_object_post_check(object): lawaan WARNING: covariance matrix of latent variables is not positive definite;
use inspect(fit, "cov.lv") to investigate.

lavaan (0.6-1) converged normally after 67 iterations

	Used	Total	
Number of observations	125	134	
Estimator	ML	Robust	
Model Fit Test Statistic	130.707	92.515	
Degrees of freedom	57	57	
P-value (Chi-square)	0.000	0.002	
Scaling correction factor		1.413	
for the Yuan-Bentler correction (Mplu	ıs variant)		
Model test baseline model:			
Minimum Function Test Statistic	1177.023	666.691	
Degrees of freedom	78	78	
P-value	0.000	0.000	
User model versus baseline model:			
Comparative Fit Index (CFI)	0.933	0.940	
Tucker-Lewis Index (TLI)	0.908	0.917	
Robust Comparative Fit Index (CFI)		NA	
Robust Tucker-Lewis Index (TLI)		NA	
Loglikelihood and Information Criteria:			
Loglikelihood user model (HO)	-1097.274	-1097.274	
Loglikelihood unrestricted model (H1)		-1031.921	
Number of free parameters	34	34	
Akaike (AIC)	2262.549		
Bayesian (BIC)	2358.712		
Sample-size adjusted Bayesian (BIC)	2251.197	2251.197	
Root Mean Square Error of Approximation:			
RMSEA	0.102	0.071	
90 Percent Confidence Interval	0.079 0.125	0.048	0.092
P-value RMSEA <= 0.05	0.000	0.068	
· · · · · · · · · · · · · · · · · · ·	0.000	3.330	

Robust RMSEA	NA	
90 Percent Confidence Interval	NA	NA

Standardized Root Mean Square Residual:

SRMR 0.058 0.058

Parameter Estimates:

Information	Observed
Observed information based on	Hessian
Standard Errors	Robust.huber.white

Latent Variables:

grent Agriabies.					
	Estimate	Std.Err	z-value	P(> z)	Std.lv
<pre>Healthy_Rel_Skills =~</pre>					
Healthy_Rel.n	1.000				0.425
Communicate.n	1.220	0.188	6.490	0.000	0.519
CnflctMngmnt.n	1.315	0.192	6.841	0.000	0.559
Partner_Selection =~					
RightPartner.n	1.000				0.511
LearnPartner.n	1.065	0.090	11.896	0.000	0.544
PaceReltnshp.n	1.049	0.093	11.254	0.000	0.536
WarningSigns.n	1.097	0.108	10.161	0.000	0.560
Past_Rel_Behav =~					
${\tt LerndGrwngUp.n}$	1.000				0.452
PastRltnshps.n	1.189	0.145	8.194	0.000	0.537
${ t GetAlngPrnts.n}$	1.205	0.258	4.672	0.000	0.545
FrndshpsArLk.n	1.175	0.134	8.798	0.000	0.531
Rel_Behav_Attit =~					
FeelingsHurt.n	1.000				0.435
RightandWrng.n	0.964	0.236	4.090	0.000	0.420

Std.all

0.740

0.831

0.794

0.733

0.888

0.837

0.894

0.720

0.713

0.765

0.724

0.679 0.690

Covariances:

	Estimate	Std.Err	z-value	P(> z)	$\mathtt{Std.lv}$
.PastRelationships.n ~~					
$. { t FrndshpsArLk.n}$	0.137	0.141	0.966	0.334	0.137
$.{ t GetAlngPrnts.n}$	-0.053	0.029	-1.835	0.067	-0.053
<pre>Healthy_Rel_Skills ~~</pre>					
Partner_Selctn	0.207	0.037	5.565	0.000	0.950
Past_Rel_Behav	0.114	0.035	3.250	0.001	0.592
Rel_Behav_Attt	0.145	0.037	3.955	0.000	0.784
Partner_Selection ~~					
Past_Rel_Behav	0.151	0.035	4.376	0.000	0.656
Rel_Behav_Attt	0.199	0.049	4.029	0.000	0.895
Past_Rel_Behav ~~					
Rel_Behav_Attt	0.198	0.043	4.597	0.000	1.009
Std.all					

0.512

-0.219

0.950

0.592

0.784

0.656

0.895

1.009

Variances:

		Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
. I	Healthy_Rel.n	0.149	0.030	4.976	0.000	0.149	0.452
. (Communicate.n	0.120	0.028	4.237	0.000	0.120	0.309
. (CnflctMngmnt.n	0.184	0.044	4.135	0.000	0.184	0.370
. I	RightPartner.n	0.225	0.052	4.329	0.000	0.225	0.463
.]	LearnPartner.n	0.079	0.019	4.162	0.000	0.079	0.211
. I	PaceReltnshp.n	0.123	0.028	4.400	0.000	0.123	0.300
. 1	WarningSigns.n	0.079	0.023	3.410	0.001	0.079	0.202
.]	LerndGrwngUp.n	0.190	0.056	3.414	0.001	0.190	0.481
. 1	PastRltnshps.n	0.279	0.149	1.876	0.061	0.279	0.491
. (GetAlngPrnts.n	0.209	0.067	3.150	0.002	0.209	0.414
.]	FrndshpsArLk.n	0.256	0.142	1.803	0.071	0.256	0.475
.]	FeelingsHurt.n	0.221	0.082	2.690	0.007	0.221	0.538
. I	RightandWrng.n	0.194	0.082	2.370	0.018	0.194	0.524
I	Hlthy_Rl_Sklls	0.181	0.039	4.695	0.000	1.000	1.000
]	Partner_Selctn	0.261	0.061	4.271	0.000	1.000	1.000

Past_Rel_Behav	0.204	0.061	3.347	0.001	1.000	1.000
Rel Behav Attt	0.190	0.056	3.385	0.001	1.000	1.000

3.2.6 Modification Indices

Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: start variables involved are: Past_Rel_Behav Rel_Behav_Attit

```
lhs op
                                        rhs
   Healthy_Rel_Skills =~
                             RightPartner.n 25.07439
                                                     3.08632122
1
2
       WarningSigns.n ~~
                             FeelingsHurt.n 17.52276 0.06192264
        Communicate.n ~~
3
                          GetAlongParents.n 15.12484 -0.07260986
                             RightPartner.n 14.58436 0.07977360
4 ConflictManagement.n ~~
        Communicate.n ~~ LearnedGrowingUp.n 11.72137 0.05728113
     sepc.lv
               sepc.all
                          sepc.nox
1 1.31282562 1.8823900 1.8823900
2 0.06192264 0.4677474 0.4677474
3 -0.07260986 -0.4575285 -0.4575285
4 0.07977360 0.3922452 0.3922452
5 0.05728113 0.3794884 0.3794884
```

3.2.7 Warning

- CFA at post yields good fit if we drop fights and add several covariances (these should be checked for theoretical justification), but the model is still non-positive definite due to a correlation greater than 1 between latent variables.
- The data suggest that there are really only two factors. It could be that there are more than two, but the division of the items into additional factors yields factors that are so similar to one another that only 2 of the 4 can be used.
- CFA could be done on one factor at a time, but with only 3 items on 2 of the factors it would not be informative for those factors. This is because CFA on a single latent variable with 3 factors is just identified and has perfect fit.
- It would be best to try for a two-factor solution or use the four-factor solution, but only use 2 of the factors in subsequent analyses.
- As seen below, reliability is good for all factors. However, the factors are redundant. If continuing with the 4 factor solution, the "fights" item should probably be placed on a different factor or dropped. It is not loading in the hypothesized way (see EFAs) and, therefore, may be interpreted by participants differently than expected. This raises questions about the meaning of the latent construct it is included on.
- Finally, robust maximum likelihood (MLR) was used to estimate CFA models. This helps adjust for the non-normal nature of the items. Items with only 3 actual categories probably are too non-normal and have too few categories to be fully addressed using MLR. They are better treated as categorical which has the added benefit of not treating the difference in response category levels as interval (i.e., equal).

3.3 Change

3.3.1 Model Fit

lavaan	(0.6-1)	converged	normally	after	46	iterations
--------	---------	-----------	----------	-------	----	------------

	Used		
Number of observations	111	134	
Estimator	ML	Robust	
Model Fit Test Statistic	104.274	90.726	
Degrees of freedom	71	71	
P-value (Chi-square)	0.006	0.057	
Scaling correction factor		1.149	
for the Yuan-Bentler correction (Mplu	ıs variant)		
Model test baseline model:			
Minimum Function Test Statistic	1328.961	1068.315	
Degrees of freedom	91	91	
P-value	0.000	0.000	
User model versus baseline model:			
Comparative Fit Index (CFI)	0.973	0.980	
Tucker-Lewis Index (TLI)	0.966	0.974	
Pohyat Componentive Fit Index (CFI)		NA	
Robust Comparative Fit Index (CFI) Robust Tucker-Lewis Index (TLI)		NA NA	
Loglikelihood and Information Criteria:			
Loglikelihood user model (HO)	-1750.876	-1750.876	
Loglikelihood unrestricted model (H1)	-1698.740	-1698.740	
Number of free parameters	34	34	
Akaike (AIC)	3569.753		
Bayesian (BIC)	3661.877		
Sample-size adjusted Bayesian (BIC)	3554.430	3554.430	
Root Mean Square Error of Approximation:			
RMSEA	0.065	0.050	
90 Percent Confidence Interval	0.035 0.091		0.077
P-value RMSEA <= 0.05	0.178	0.480	
Robust RMSEA		NA	

90 Percent Confidence Interval

NA NA

Standardized Root Mean Square Residual:

SRMR 0.041 0.041

Parameter Estimates:

Information	Observed
Observed information based on	Hessian
Standard Errors	Robust.huber.white

Latent Variables:

Estimate	Std.Err	z-value	P(> z)	Std.lv
•				
1.000				0.869
0.890	0.169	5.276	0.000	0.774
1.096	0.140	7.811	0.000	0.953
1.000				1.107
0.976	0.054	17.962	0.000	1.081
0.977	0.069	14.116	0.000	1.082
0.911	0.060	15.107	0.000	1.009
1.000				0.799
1.005	0.106	9.464	0.000	0.803
1.252	0.126	9.931	0.000	1.001
1.180	0.113	10.440	0.000	0.943
1.000				0.878
1.016	0.109	9.315	0.000	0.892
0.837	0.098	8.509	0.000	0.735
	1.000 0.890 1.096 1.000 0.976 0.977 0.911 1.000 1.005 1.252 1.180 1.000 1.016	1.000 0.890	1.000 0.890	1.000 0.890

Std.all

0.827

0.760

0.855

0.913

0.911

0.872

0.854

0.772

0.767

0.870

0.895

0.716

0.833

0.766

Covariances:

	Estimate	Std.Err	z-value	P(> z)	Std.lv
Healthy_Rel_Skills ~~					
Partner_Selctn	0.853	0.142	6.017	0.000	0.887
Past_Rel_Behav	0.466	0.115	4.064	0.000	0.671
Rel_Behav_Attt	0.535	0.147	3.633	0.000	0.700
Partner_Selection ~~					
Past_Rel_Behav	0.562	0.108	5.180	0.000	0.634
Rel_Behav_Attt	0.642	0.136	4.726	0.000	0.660
Past_Rel_Behav ~~					
Rel_Behav_Attt	0.674	0.142	4.744	0.000	0.960
Std.all					

0.887 0.671

0.700

0.634

0.660

0.960

Variances:

	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
.Helthy_Rl_Chng	0.349	0.085	4.107	0.000	0.349	0.316
.Communict_Chng	0.438	0.122	3.578	0.000	0.438	0.422
.CnflctMngmnt_C	0.333	0.079	4.223	0.000	0.333	0.268
.RghtPrtnr_Chng	0.243	0.045	5.469	0.000	0.243	0.166
.LernPrtnr_Chng	0.241	0.063	3.819	0.000	0.241	0.171
.PcRltnshp_Chng	0.367	0.089	4.148	0.000	0.367	0.239
.WrnngSgns_Chng	0.378	0.077	4.927	0.000	0.378	0.271
$. LrndGrwngUp_Ch$	0.433	0.082	5.283	0.000	0.433	0.404
$. {\tt PstRltnshps_Ch}$	0.451	0.070	6.435	0.000	0.451	0.411
$.{\tt GtAlngPrnts_Ch}$	0.321	0.067	4.807	0.000	0.321	0.243
$. {\tt FrndshpsArLk_C}$	0.220	0.047	4.706	0.000	0.220	0.198
$. { t Fights_Change}$	0.733	0.198	3.711	0.000	0.733	0.487
.FelngsHrt_Chng	0.352	0.077	4.565	0.000	0.352	0.307
.RghtndWrng_Chn	0.381	0.069	5.485	0.000	0.381	0.414
Hlthy_Rl_Sklls	0.755	0.171	4.421	0.000	1.000	1.000
Partner_Selctn	1.226	0.189	6.487	0.000	1.000	1.000
Past_Rel_Behav	0.639	0.124	5.166	0.000	1.000	1.000
Rel_Behav_Attt	0.771	0.213	3.623	0.000	1.000	1.000

3.3.2 Modification Indices

```
lhs op
                                         rhs
                                                   mi
                                                              ерс
1
         WarningSigns.n ~~
                              FeelingsHurt.n 21.72534
                                                       0.07076666
2
      Partner Selection =~ GetAlongParents.n 20.97305
                                                       0.57395816
3
      Partner_Selection =~
                              FeelingsHurt.n 18.25798
                                                       0.64853489
4
     Healthy_Rel_Skills =~ GetAlongParents.n 17.81929
                                                       0.63657355
5
        Rel_Behav_Attit =~ GetAlongParents.n 17.14802
                                                       1.93249759
6
                              RightPartner.n 16.33779
                                                       2.77593655
     Healthy_Rel_Skills =~
7
  ConflictManagement.n ~~
                              RightPartner.n 16.14992
                                                       0.08519985
8
      Partner_Selection =~
                                    Fights.n 13.49935 -0.66160480
9
     Healthy_Rel_Skills =~
                                    Fights.n 13.34619 -0.77657476
     Healthy_Rel_Skills =~
                              FeelingsHurt.n 12.05663
10
                                                       0.62259818
        Past_Rel_Behav =~
                                    Fights.n 11.63467
11
                                                       1.13858738
12
        Past_Rel_Behav =~
                              FeelingsHurt.n 11.20240 -0.93764407
                              FeelingsHurt.n 10.64287 -0.07020155
13 FriendshipsAreLike.n ~~
14
      GetAlongParents.n ~~
                              FeelingsHurt.n 10.42659 0.08718744
       sepc.lv
                 sepc.all
                            sepc.nox
   0.07076666 0.4946292
                           0.4946292
1
2
   0.29520317
               0.4141803
                           0.4141803
3
   0.33356013
               0.5191723
                           0.5191723
4
   0.26899589
               0.3774106
                           0.3774106
5
   0.76286509
               1.0703263
                           1.0703263
6
   1.17302316
               1.6769976
                           1.6769976
7
   0.08519985 0.4103599
                           0.4103599
 -0.34028236 -0.4210459 -0.4210459
9 -0.32815598 -0.4060414 -0.4060414
10 0.26309034 0.4094890
                           0.4094890
11 0.72426788 0.8961675
                           0.8961675
12 -0.59644564 -0.9283425 -0.9283425
13 -0.07020155 -0.4032029 -0.4032029
14 0.08718744 0.3095213 0.3095213
```

4 Reliability of Scales (Using Analytic Sample): Chronbach's Alpha (Assumes Factor Loadings are Equivalent)

4.1 Retrospective-Pre

4.1.1 Perceived Knowledge About Relationship Skills

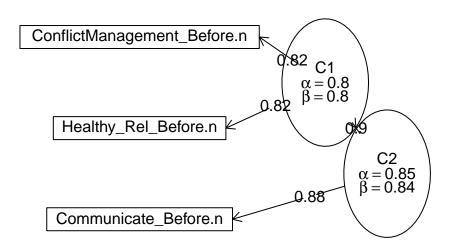
4.1.1.1 Cronbach's alpha (Average split half reliability)

```
Reliability analysis
Call: psych::alpha(x = .)
  raw_alpha std.alpha G6(smc) average_r S/N
                                              ase mean
                                                          sd median_r
      0.84
                0.84
                                  0.64 5.4 0.023
                        0.78
                                                  3.1 0.86
                                                                0.65
lower alpha upper
                       95% confidence boundaries
0.8 0.84 0.89
Reliability if an item is dropped:
                            raw_alpha std.alpha G6(smc) average_r S/N
Healthy_Rel_Before.n
                                 0.79
                                           0.79
                                                    0.66
                                                              0.66 3.8
                                           0.79
                                                    0.65
Communicate_Before.n
                                 0.79
                                                              0.65 3.7
ConflictManagement_Before.n
                                 0.76
                                           0.77
                                                    0.62
                                                              0.62 3.3
                            alpha se var.r med.r
Healthy_Rel_Before.n
                               0.036
                                        NA 0.66
Communicate_Before.n
                               0.037
                                        NA 0.65
ConflictManagement_Before.n
                               0.040
                                        NA 0.62
 Item statistics
                              n raw.r std.r r.cor r.drop mean
Healthy_Rel_Before.n
                                 0.89
                                       0.87
                                             0.76
                                                     0.70 3.1 1.04
                            131
Communicate_Before.n
                            130
                                 0.86
                                       0.87
                                             0.77
                                                     0.70 3.3 0.90
ConflictManagement_Before.n 125
                                 0.88
                                       0.88 0.79
                                                     0.72 3.1 0.96
Non missing response frequency for each item
                                         3
                                              4
                                                    5 miss
Healthy_Rel_Before.n
                            0.10 0.17 0.36 0.33 0.05 0.02
Communicate_Before.n
                            0.03 0.16 0.38 0.38 0.05 0.03
ConflictManagement_Before.n 0.07 0.14 0.42 0.33 0.05 0.07
```

4.1.1.2 Congeneric reliability (Jöreskog, 1971; Cho, 2016)

• Also called "composite reliability," "unidimensional omega," "Raju (1977) coefficient," and "worst split half reliability"

ICLUST



```
ICLUST (Item Cluster Analysis)
Call: iclust(r.mat = r.mat, nclusters = nclusters, alpha = alpha, beta = beta,
    beta.size = beta.size, alpha.size = alpha.size, correct = correct,
    correct.cluster = correct.cluster, reverse = reverse, beta.min = beta.min,
    output = output, digits = digits, labels = labels, cut = cut,
    n.iterations = n.iterations, title = title, plot = plot,
    weighted = weighted, cor.gen = cor.gen, SMC = SMC, purify = purify,
    diagonal = diagonal)

Purified Alpha:
[1] 0.85

G6* reliability:
[1] 1

Original Beta:
[1] 0.84

Cluster size:
```

[1] 3

Item by Cluster Structure matrix:

[,1]

Healthy_Rel_Before.n 0.78

Communicate_Before.n 0.76

ConflictManagement_Before.n 0.80

With eigenvalues of:

[1] 1.8

Purified scale intercorrelations
reliabilities on diagonal
correlations corrected for attenuation above diagonal:
[,1]
[1,] 0.85

Cluster fit = 0.91 Pattern fit = 1 RMSR = 0.05

4.1.1.3 Summary

Cronbach's $\alpha=0.84$ Congeneric reliability $\beta=0.84$

4.1.2 Perceived Knowledge About Partner Selection

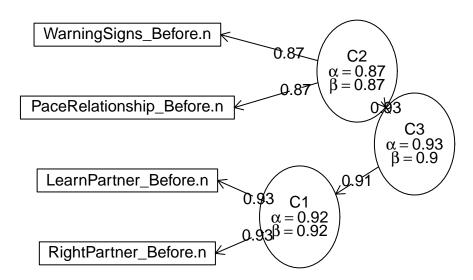
4.1.2.1 Cronbach's alpha (Average split half reliability)

```
Reliability analysis
Call: psych::alpha(x = .)
 raw_alpha std.alpha G6(smc) average_r S/N ase mean
      0.93
                0.93
                        0.91
                                  0.76 13 0.01 2.8 0.94
                                                              0.75
 lower alpha upper
                       95% confidence boundaries
0.91 0.93 0.95
Reliability if an item is dropped:
                          raw_alpha std.alpha G6(smc) average_r
RightPartner_Before.n
                               0.90
                                         0.90
                                                 0.85
                                                           0.74
                                                                 8.6
LearnPartner Before.n
                               0.90
                                         0.90
                                                 0.86
                                                           0.75
                                                                 8.9
PaceRelationship_Before.n
                               0.91
                                         0.91
                                                 0.88
                                                           0.77
                                                                 9.9
WarningSigns_Before.n
                               0.92
                                         0.92
                                                           0.79 11.2
                                                 0.89
                          alpha se
                                     var.r med.r
                             0.016 0.00075
RightPartner_Before.n
                                           0.75
LearnPartner_Before.n
                             0.015 0.00030 0.75
PaceRelationship_Before.n
                             0.014 0.00669 0.73
WarningSigns_Before.n
                             0.013 0.00381 0.75
Item statistics
                            n raw.r std.r r.cor r.drop mean sd
RightPartner_Before.n
                              0.92 0.92 0.90
                                                  0.86
                          130
                                                        2.8 1.0
LearnPartner_Before.n
                          130 0.92 0.92 0.89
                                                  0.85
                                                        2.8 1.0
PaceRelationship Before.n 130
                               0.90 0.90 0.85
                                                  0.82
                                                        2.8 1.1
WarningSigns_Before.n
                          129
                              0.89 0.88 0.82
                                                  0.79 2.9 1.1
Non missing response frequency for each item
                             1
                                  2
                                       3
                                            4
RightPartner_Before.n
                          0.14 0.19 0.43 0.22 0.02 0.03
LearnPartner_Before.n
                          0.14 0.20 0.36 0.28 0.02 0.03
PaceRelationship_Before.n 0.15 0.22 0.36 0.25 0.02 0.03
WarningSigns_Before.n
                          0.12 0.22 0.31 0.32 0.03 0.04
```

4.1.2.2 Congeneric reliability (Jöreskog, 1971; Cho, 2016)

• Also called "composite reliability," "unidimensional omega," "Raju (1977) coefficient," and "worst split half reliability"

ICLUST



```
ICLUST (Item Cluster Analysis)
Call: iclust(r.mat = r.mat, nclusters = nclusters, alpha = alpha, beta = beta,
    beta.size = beta.size, alpha.size = alpha.size, correct = correct,
    correct.cluster = correct.cluster, reverse = reverse, beta.min = beta.min,
    output = output, digits = digits, labels = labels, cut = cut,
    n.iterations = n.iterations, title = title, plot = plot,
    weighted = weighted, cor.gen = cor.gen, SMC = SMC, purify = purify,
    diagonal = diagonal)

Purified Alpha:
[1] 0.93

G6* reliability:
[1] 1

Original Beta:
[1] 0.9

Cluster size:
```

[1] 4

Item by Cluster Structure matrix: [,1] RightPartner_Before.n 0.90 LearnPartner_Before.n 0.89 PaceRelationship_Before.n 0.85 ${\tt WarningSigns_Before.n}$ 0.82 With eigenvalues of: [1] 3 Purified scale intercorrelations reliabilities on diagonal correlations corrected for attenuation above diagonal: [,1][1,] 0.93 Cluster fit = 0.97 Pattern fit = 1 RMSR = 0.04

4.1.2.3 Summary

Cronbach's $\alpha = 0.93$ Congeneric reliability $\beta = 0.9$

4.1.3 Perceived Importance of Knowledge About a Potential Partner's Relationships Patterns

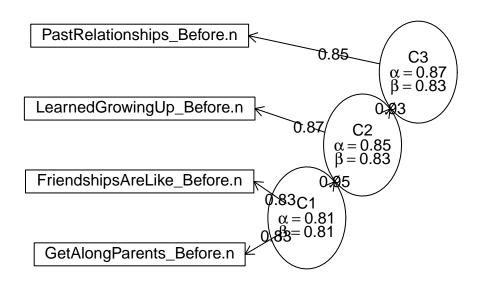
4.1.3.1 Cronbach's alpha (Average split half reliability)

```
Reliability analysis
Call: psych::alpha(x = .)
 raw_alpha std.alpha G6(smc) average_r S/N
                                              ase mean
                                                         sd median r
      0.87
                0.87
                                  0.62 6.6 0.018
                        0.84
                                                  3.4 0.92
                                                               0.63
 lower alpha upper
                       95% confidence boundaries
0.83 0.87 0.91
Reliability if an item is dropped:
                            raw_alpha std.alpha G6(smc) average_r S/N
LearnedGrowingUp Before.n
                                 0.84
                                           0.84
                                                   0.79
                                                             0.64 5.2
PastRelationships_Before.n
                                 0.85
                                           0.85
                                                   0.79
                                                             0.65 5.6
GetAlongParents_Before.n
                                           0.84
                                                   0.78
                                                             0.63 5.2
                                 0.84
FriendshipsAreLike_Before.n
                                 0.80
                                           0.80
                                                   0.73
                                                             0.58 4.1
                            alpha se
                                       var.r med.r
LearnedGrowingUp_Before.n
                               0.024 0.00587 0.67
PastRelationships_Before.n
                               0.023 0.00161 0.66
GetAlongParents_Before.n
                               0.024 0.00302 0.66
FriendshipsAreLike_Before.n
                               0.030 0.00093 0.57
Item statistics
                              n raw.r std.r r.cor r.drop mean sd
LearnedGrowingUp_Before.n
                                                    0.71 3.3 1.0
                            126
                                 0.83 0.84 0.75
PastRelationships Before.n 125
                                 0.82
                                       0.82 0.73
                                                    0.68 3.3 1.1
GetAlongParents Before.n
                            125
                                 0.84
                                       0.84 0.76
                                                    0.71 3.5 1.1
FriendshipsAreLike_Before.n 126
                                 0.90
                                       0.89
                                             0.85
                                                    0.80 3.4 1.1
Non missing response frequency for each item
                               1
                                    2
                                         3
                                              4
                                                   5 miss
LearnedGrowingUp_Before.n
                            0.06 0.13 0.36 0.35 0.11 0.06
PastRelationships_Before.n 0.06 0.15 0.34 0.33 0.13 0.07
GetAlongParents_Before.n
                            0.05 0.13 0.33 0.28 0.22 0.07
FriendshipsAreLike_Before.n 0.05 0.17 0.32 0.29 0.18 0.06
```

4.1.3.2 Congeneric reliability (Jöreskog, 1971; Cho, 2016)

• Also called "composite reliability," "unidimensional omega," "Raju (1977) coefficient," and "worst split half reliability"

ICLUST



```
ICLUST (Item Cluster Analysis)
Call: iclust(r.mat = r.mat, nclusters = nclusters, alpha = alpha, beta = beta,
    beta.size = beta.size, alpha.size = alpha.size, correct = correct,
    correct.cluster = correct.cluster, reverse = reverse, beta.min = beta.min,
    output = output, digits = digits, labels = labels, cut = cut,
    n.iterations = n.iterations, title = title, plot = plot,
    weighted = weighted, cor.gen = cor.gen, SMC = SMC, purify = purify,
    diagonal = diagonal)

Purified Alpha:
[1] 0.87

G6* reliability:
[1] 1

Original Beta:
[1] 0.83

Cluster size:
```

[1] 4

4.1.3.3 Summary

Cronbach's $\alpha = 0.87$ Congeneric reliability $\beta = 0.83$

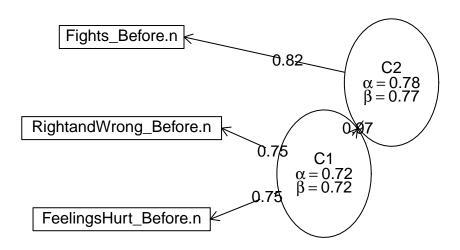
4.1.4 Perceived Importance of Knowledge About a Potential Partner's Relationship Behavior and Attitudes

4.1.4.1 Cronbach's alpha (Average split half reliability)

```
Reliability analysis
Call: psych::alpha(x = .)
 raw_alpha std.alpha G6(smc) average_r S/N
                                              ase mean
                                                         sd median r
      0.77
                0.78
                                  0.54 3.5 0.033
                                                               0.54
                        0.7
                                                 3.6 0.85
lower alpha upper
                      95% confidence boundaries
0.71 0.77 0.84
Reliability if an item is dropped:
                       raw_alpha std.alpha G6(smc) average_r S/N alpha se
Fights Before.n
                            0.71
                                      0.71
                                              0.55
                                                        0.55 2.5
                                                                    0.050
FeelingsHurt_Before.n
                                              0.52
                                                        0.52 2.2
                            0.68
                                      0.69
                                                                    0.054
RightandWrong_Before.n
                            0.70
                                      0.70
                                              0.54
                                                        0.54 2.4
                                                                    0.051
                       var.r med.r
Fights_Before.n
                         NA 0.55
FeelingsHurt_Before.n
                         NA 0.52
RightandWrong_Before.n
                         NA 0.54
 Item statistics
                        n raw.r std.r r.cor r.drop mean
Fights_Before.n
                       127 0.84 0.83 0.68
                                               0.61 3.5 1.10
FeelingsHurt_Before.n 126
                           0.84 0.84 0.71
                                               0.63 3.5 1.02
RightandWrong_Before.n 127
                           0.81 0.83 0.69
                                               0.61 3.7 0.91
Non missing response frequency for each item
                               2
                                    3
                                         4
                                              5 miss
Fights Before.n
                       0.06 0.10 0.28 0.37 0.19 0.05
FeelingsHurt_Before.n 0.04 0.12 0.25 0.44 0.15 0.06
RightandWrong_Before.n 0.02 0.07 0.27 0.45 0.20 0.05
```

4.1.4.2 Congeneric reliability (Jöreskog, 1971; Cho, 2016)

• Also called "composite reliability," "unidimensional omega," "Raju (1977) coefficient," and "worst split half reliability"



```
ICLUST (Item Cluster Analysis)
Call: iclust(r.mat = r.mat, nclusters = nclusters, alpha = alpha, beta = beta,
    beta.size = beta.size, alpha.size = alpha.size, correct = correct,
    correct.cluster = correct.cluster, reverse = reverse, beta.min = beta.min,
    output = output, digits = digits, labels = labels, cut = cut,
    n.iterations = n.iterations, title = title, plot = plot,
    weighted = weighted, cor.gen = cor.gen, SMC = SMC, purify = purify,
    diagonal = diagonal)

Purified Alpha:
[1] 0.78

G6* reliability:
[1] 1

Original Beta:
[1] 0.77

Cluster size:
```

Item by Cluster Structure matrix:

[,1]

Fights_Before.n 0.68

FeelingsHurt_Before.n 0.72

RightandWrong_Before.n 0.70

With eigenvalues of:

[1] 1.5

Purified scale intercorrelations

reliabilities on diagonal

correlations corrected for attenuation above diagonal:

[,1]

[1,] 0.78

Cluster fit = 0.83 Pattern fit = 1 RMSR = 0.05

4.1.4.3 Summary

Cronbach's $\alpha=0.77$ Congeneric reliability $\beta=0.77$

4.2 Post

4.2.1 Perceived Knowledge About Relationship Skills

4.2.1.1 Cronbach's alpha (Average split half reliability)

lower alpha upper 95% confidence boundaries 0.73 0.79 0.85

Reliability if an item is dropped:

	raw_alpha	std.alpha	G6(smc)	$average_r$	S/N	alpha se
Healthy_Rel.n	0.73	0.74	0.59	0.59	2.9	0.045
Communicate.n	0.68	0.70	0.54	0.54	2.4	0.052
ConflictManagement.n	0.74	0.74	0.59	0.59	2.8	0.045

 $\begin{array}{cccc} & \text{var.r med.r} \\ \text{Healthy_Rel.n} & \text{NA} & \text{0.59} \\ \text{Communicate.n} & \text{NA} & \text{0.54} \\ \text{ConflictManagement.n} & \text{NA} & \text{0.59} \\ \end{array}$

Item statistics

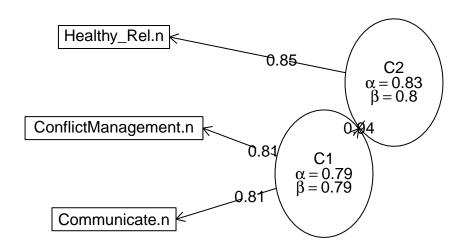
	n	raw.r	std.r	r.cor	r.drop	mean	sd
Healthy_Rel.n	131	0.83	0.84	0.71	0.63	4.5	0.57
Communicate.n	130	0.87	0.86	0.75	0.67	4.4	0.62
ConflictManagement.n	134	0.91	0.84	0.71	0.64	4.3	0.78

Non missing response frequency for each item

	1	2	3	4	5	miss
Healthy_Rel.n	0.00	0.00	0.04	0.42	0.54	0.02
Communicate.n	0.00	0.01	0.05	0.45	0.49	0.03
ConflictManagement.n	0.01	0.01	0.11	0.43	0.43	0.00

4.2.1.2 Congeneric reliability (Jöreskog, 1971; Cho, 2016)

• Also called "composite reliability," "unidimensional omega," "Raju (1977) coefficient," and "worst split half reliability"



```
ICLUST (Item Cluster Analysis)
Call: iclust(r.mat = r.mat, nclusters = nclusters, alpha = alpha, beta = beta,
    beta.size = beta.size, alpha.size = alpha.size, correct = correct,
    correct.cluster = correct.cluster, reverse = reverse, beta.min = beta.min,
    output = output, digits = digits, labels = labels, cut = cut,
    n.iterations = n.iterations, title = title, plot = plot,
    weighted = weighted, cor.gen = cor.gen, SMC = SMC, purify = purify,
    diagonal = diagonal)

Purified Alpha:
[1] 0.83

G6* reliability:
[1] 1

Original Beta:
[1] 0.8

Cluster size:
```

Item by Cluster Structure matrix:

[,1]

Healthy_Rel.n 0.71
Communicate.n 0.76
ConflictManagement.n 0.78

With eigenvalues of:

[1] 1.7

Purified scale intercorrelations
reliabilities on diagonal
correlations corrected for attenuation above diagonal:
[,1]
[1,] 0.83

Cluster fit = 0.89 Pattern fit = 1 RMSR = 0.05

4.2.1.3 Summary

Cronbach's $\alpha=0.79$ Congeneric reliability $\beta=0.8$

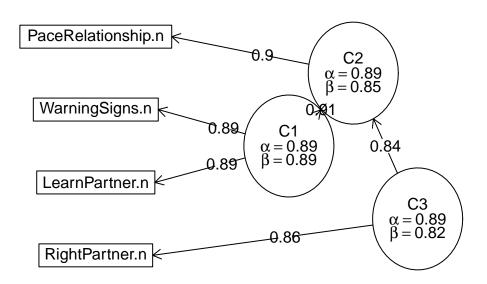
4.2.2 Perceived Knowledge About Partner Selection

4.2.2.1 Cronbach's alpha (Average split half reliability)

```
Reliability analysis
Call: psych::alpha(x = .)
 raw_alpha std.alpha G6(smc) average_r S/N
                                              ase mean
      0.88
                0.88
                        0.86
                                  0.65 7.5 0.017
                                                 4.5 0.57
                                                               0.63
lower alpha upper
                       95% confidence boundaries
0.85 0.88 0.91
Reliability if an item is dropped:
                   raw_alpha std.alpha G6(smc) average_r S/N alpha se
                                  0.88
RightPartner.n
                        0.88
                                          0.84
                                                    0.70 7.1
                                                                 0.019
LearnPartner.n
                        0.85
                                  0.86
                                          0.81
                                                    0.66 5.9
                                                                 0.023
PaceRelationship.n
                        0.84
                                  0.84
                                          0.79
                                                    0.64 5.4
                                                                 0.024
WarningSigns.n
                        0.81
                                  0.82
                                          0.75
                                                    0.60 4.4
                                                                0.028
                    var.r med.r
                   0.0056 0.72
RightPartner.n
LearnPartner.n
                   0.0094 0.64
PaceRelationship.n 0.0046 0.64
WarningSigns.n
                   0.0006 0.58
 Item statistics
                     n raw.r std.r r.cor r.drop mean
                                                        sd
RightPartner.n
                                           0.67 4.4 0.70
                   131 0.83 0.81 0.71
LearnPartner.n
                   132
                        0.88
                              0.85
                                   0.77
                                           0.72 4.5 0.68
PaceRelationship.n 133
                        0.84
                              0.87
                                    0.81
                                           0.75 4.5 0.63
WarningSigns.n
                   132
                        0.91
                             0.91
                                    0.89
                                           0.83 4.5 0.62
Non missing response frequency for each item
                           2
                                3
                                     4
                                          5 miss
RightPartner.n
                   0.00 0.02 0.08 0.41 0.50 0.02
LearnPartner.n
                   0.01 0.01 0.04 0.33 0.61 0.01
PaceRelationship.n 0.00 0.01 0.05 0.35 0.59 0.01
                   0.00 0.02 0.02 0.36 0.60 0.01
WarningSigns.n
```

4.2.2.2 Congeneric reliability (Jöreskog, 1971; Cho, 2016)

• Also called "composite reliability," "unidimensional omega," "Raju (1977) coefficient," and "worst split half reliability"



```
ICLUST (Item Cluster Analysis)
Call: iclust(r.mat = r.mat, nclusters = nclusters, alpha = alpha, beta = beta,
    beta.size = beta.size, alpha.size = alpha.size, correct = correct,
    correct.cluster = correct.cluster, reverse = reverse, beta.min = beta.min,
    output = output, digits = digits, labels = labels, cut = cut,
    n.iterations = n.iterations, title = title, plot = plot,
    weighted = weighted, cor.gen = cor.gen, SMC = SMC, purify = purify,
    diagonal = diagonal)

Purified Alpha:
[1] 0.89

G6* reliability:
[1] 1

Original Beta:
[1] 0.82

Cluster size:
```

Item by Cluster Structure matrix:

[,1]

RightPartner.n 0.72 LearnPartner.n 0.84 PaceRelationship.n 0.79

WarningSigns.n 0.91

With eigenvalues of:

[1] 2.7

Purified scale intercorrelations
reliabilities on diagonal
correlations corrected for attenuation above diagonal:
[,1]

[1,] 0.89

Cluster fit = 0.95 Pattern fit = 1 RMSR = 0.04

4.2.2.3 Summary

Cronbach's $\alpha = 0.88$ Congeneric reliability $\beta = 0.82$

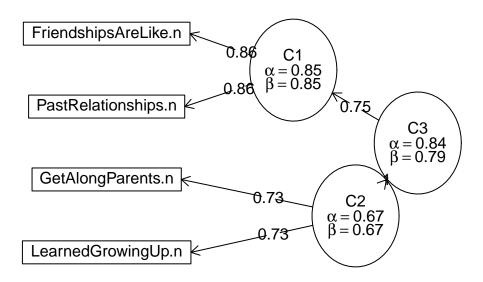
4.2.3 Perceived Importance of Knowledge About a Potential Partner's Relationships Patterns

4.2.3.1 Cronbach's alpha (Average split half reliability)

```
Reliability analysis
Call: psych::alpha(x = .)
 raw_alpha std.alpha G6(smc) average_r S/N
                                              ase mean
                                                         sd median r
      0.83
                0.83
                        0.81
                                  0.56
                                                               0.56
                                         5 0.024
                                                  4.5 0.59
 lower alpha upper
                      95% confidence boundaries
0.79 0.83 0.88
Reliability if an item is dropped:
                     raw_alpha std.alpha G6(smc) average_r S/N alpha se
LearnedGrowingUp.n
                          0.80
                                    0.80
                                            0.75
                                                      0.57 3.9
                                                                  0.031
PastRelationships.n
                                            0.70
                                                      0.54 3.5
                          0.78
                                    0.78
                                                                  0.033
GetAlongParents.n
                          0.83
                                    0.83
                                            0.77
                                                      0.62 4.8
                                                                  0.025
FriendshipsAreLike.n
                          0.75
                                    0.75
                                            0.68
                                                      0.50 3.0
                                                                  0.038
                       var.r med.r
LearnedGrowingUp.n
                     0.02059 0.56
PastRelationships.n 0.00095
                             0.55
GetAlongParents.n
                     0.00738
                              0.58
FriendshipsAreLike.n 0.00592
                             0.50
 Item statistics
                      n raw.r std.r r.cor r.drop mean
LearnedGrowingUp.n
                     132 0.79 0.81 0.70
                                             0.65 4.5 0.65
PastRelationships.n
                     133 0.85 0.83 0.78
                                             0.69 4.5 0.80
GetAlongParents.n
                     133 0.75 0.76 0.63
                                             0.57 4.5 0.71
FriendshipsAreLike.n 132 0.87 0.86 0.82
                                             0.75 4.5 0.73
Non missing response frequency for each item
                        1
                             2
                                  3
                                       4
                                            5 miss
LearnedGrowingUp.n
                     0.00 0.00 0.08 0.35 0.57 0.01
PastRelationships.n 0.02 0.02 0.04 0.27 0.65 0.01
GetAlongParents.n
                     0.01 0.00 0.08 0.31 0.60 0.01
FriendshipsAreLike.n 0.02 0.00 0.05 0.34 0.60 0.01
```

4.2.3.2 Congeneric reliability (Jöreskog, 1971; Cho, 2016)

• Also called "composite reliability," "unidimensional omega," "Raju (1977) coefficient," and "worst split half reliability"



```
ICLUST (Item Cluster Analysis)
Call: iclust(r.mat = r.mat, nclusters = nclusters, alpha = alpha, beta = beta,
    beta.size = beta.size, alpha.size = alpha.size, correct = correct,
    correct.cluster = correct.cluster, reverse = reverse, beta.min = beta.min,
    output = output, digits = digits, labels = labels, cut = cut,
    n.iterations = n.iterations, title = title, plot = plot,
    weighted = weighted, cor.gen = cor.gen, SMC = SMC, purify = purify,
    diagonal = diagonal)

Purified Alpha:
[1] 0.84

G6* reliability:
[1] 1

Original Beta:
[1] 0.79

Cluster size:
```

Item by Cluster Structure matrix:

[,1]

LearnedGrowingUp.n 0.70

PastRelationships.n 0.79

GetAlongParents.n 0.63

FriendshipsAreLike.n 0.84

With eigenvalues of:
[1] 2.2

Purified scale intercorrelations

reliabilities on diagonal

correlations corrected for attenuation above diagonal:

[,1]

[1,] 0.84

Cluster fit = 0.89 Pattern fit = 1 RMSR = 0.05

4.2.3.3 Summary

Cronbach's $\alpha = 0.83$ Congeneric reliability $\beta = 0.79$

4.2.4 Perceived Importance of Knowledge About a Potential Partner's Relationship Behavior and Attitudes

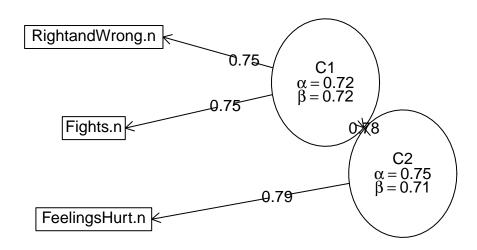
4.2.4.1 Cronbach's alpha (Average split half reliability)

RightandWrong.n 0.00 0.01 0.05 0.23 0.72 0.01

```
Reliability analysis
Call: psych::alpha(x = .)
 raw_alpha std.alpha G6(smc) average_r S/N
                                              ase mean
                                                         sd median r
      0.75
                0.76
                        0.68
                                  0.51 3.1 0.036 4.6 0.56
                                                               0.49
 lower alpha upper
                      95% confidence boundaries
0.68 0.75 0.82
Reliability if an item is dropped:
                raw_alpha std.alpha G6(smc) average_r S/N alpha se var.r
                               0.64
Fights.n
                     0.64
                                       0.47
                                                 0.47 1.8
                                                             0.063
                                                                      NA
FeelingsHurt.n
                     0.70
                               0.72
                                                 0.56 2.6
                                       0.56
                                                             0.049
                                                                      NA
RightandWrong.n
                     0.64
                               0.66
                                       0.49
                                                 0.49 1.9
                                                             0.059
                                                                      NA
               med.r
                0.47
Fights.n
FeelingsHurt.n
                0.56
RightandWrong.n 0.49
 Item statistics
                 n raw.r std.r r.cor r.drop mean
Fights.n
                131 0.87 0.83 0.71
                                        0.61 4.5 0.81
FeelingsHurt.n 132 0.78 0.80 0.62
                                        0.54 4.6 0.64
RightandWrong.n 132 0.81
                          0.83 0.69
                                        0.60 4.7 0.60
Non missing response frequency for each item
                        2
                                  4
                                       5 miss
                             3
Fights.n
                0.02 0.02 0.06 0.27 0.64 0.02
FeelingsHurt.n 0.01 0.00 0.04 0.28 0.67 0.01
```

4.2.4.2 Congeneric reliability (Jöreskog, 1971; Cho, 2016)

• Also called "composite reliability," "unidimensional omega," "Raju (1977) coefficient," and "worst split half reliability"



```
ICLUST (Item Cluster Analysis)
Call: iclust(r.mat = r.mat, nclusters = nclusters, alpha = alpha, beta = beta,
    beta.size = beta.size, alpha.size = alpha.size, correct = correct,
    correct.cluster = correct.cluster, reverse = reverse, beta.min = beta.min,
    output = output, digits = digits, labels = labels, cut = cut,
    n.iterations = n.iterations, title = title, plot = plot,
    weighted = weighted, cor.gen = cor.gen, SMC = SMC, purify = purify,
    diagonal = diagonal)

Purified Alpha:
[1] 0.75

G6* reliability:
[1] 1

Original Beta:
[1] 0.71

Cluster size:
```

Item by Cluster Structure matrix:

[,1]

Fights.n 0.71

FeelingsHurt.n 0.62

RightandWrong.n 0.69

With eigenvalues of:

[1] 1.4

Purified scale intercorrelations

reliabilities on diagonal

correlations corrected for attenuation above diagonal:

[,1]

[1,] 0.75

Cluster fit = 0.8 Pattern fit = 1 RMSR = 0.06

4.2.4.3 Summary

Cronbach's $\alpha=0.75$ Congeneric reliability $\beta=0.71$

4.3 Change

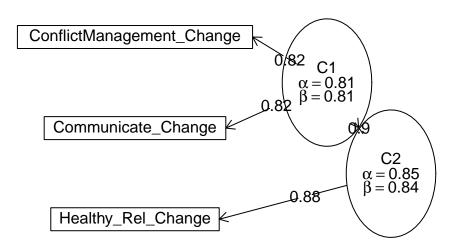
4.3.1 Perceived Knowledge About Relationship Skills

4.3.1.1 Cronbach's alpha (Average split half reliability)

```
Reliability analysis
Call: psych::alpha(x = .)
 raw_alpha std.alpha G6(smc) average_r S/N
                                              ase mean
                                                          sd median_r
      0.84
                0.84
                        0.78
                                  0.64 5.4 0.024 1.3 0.98
                                                                0.64
                       95% confidence boundaries
 lower alpha upper
0.8 0.84 0.89
Reliability if an item is dropped:
                          raw_alpha std.alpha G6(smc) average_r S/N
Healthy_Rel_Change
                               0.80
                                         0.80
                                                  0.67
                                                            0.67 4.0
                               0.77
                                         0.77
                                                  0.63
                                                            0.63 3.4
Communicate_Change
ConflictManagement_Change
                               0.78
                                         0.78
                                                  0.64
                                                            0.64 3.5
                          alpha se var.r med.r
                                          0.67
Healthy_Rel_Change
                             0.035
                                      NA
Communicate_Change
                                          0.63
                             0.040
                                      NA
ConflictManagement_Change
                             0.039
                                      NA
                                         0.64
Item statistics
                            n raw.r std.r r.cor r.drop mean sd
Healthy_Rel_Change
                                                  0.69 1.5 1.1
                          128
                              0.88 0.86 0.75
Communicate_Change
                          127
                               0.87 0.88 0.79
                                                  0.72 1.2 1.0
ConflictManagement_Change 125 0.89 0.88 0.78
                                                  0.72 1.2 1.1
Non missing response frequency for each item
                                 -1
                                            1
                                                  2
                                                       3
                                                            4 miss
Healthy_Rel_Change
                          0.01 0.00 0.16 0.40 0.29 0.07 0.08 0.01
Communicate_Change
                          0.01 0.02 0.20 0.43 0.22 0.09 0.02 0.02
ConflictManagement_Change 0.02 0.02 0.23 0.36 0.27 0.06 0.03 0.03
```

4.3.1.2 Congeneric reliability (Jöreskog, 1971; Cho, 2016)

• Also called "composite reliability," "unidimensional omega," "Raju (1977) coefficient," and "worst split half reliability"



```
ICLUST (Item Cluster Analysis)
Call: iclust(r.mat = r.mat, nclusters = nclusters, alpha = alpha, beta = beta,
    beta.size = beta.size, alpha.size = alpha.size, correct = correct,
    correct.cluster = correct.cluster, reverse = reverse, beta.min = beta.min,
    output = output, digits = digits, labels = labels, cut = cut,
    n.iterations = n.iterations, title = title, plot = plot,
    weighted = weighted, cor.gen = cor.gen, SMC = SMC, purify = purify,
    diagonal = diagonal)

Purified Alpha:
[1] 0.85

G6* reliability:
[1] 1

Original Beta:
[1] 0.84

Cluster size:
```

Item by Cluster Structure matrix:

[,1]

Healthy_Rel_Change 0.76 Communicate_Change 0.79 ConflictManagement_Change 0.79

With eigenvalues of:

[1] 1.8

Purified scale intercorrelations
reliabilities on diagonal
correlations corrected for attenuation above diagonal:
[,1]
[1,] 0.85

Cluster fit = 0.92 Pattern fit = 1 RMSR = 0.05

4.3.1.3 Summary

Cronbach's $\alpha=0.84$ Congeneric reliability $\beta=0.84$

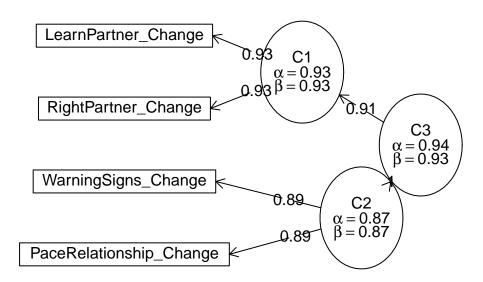
4.3.2 Perceived Knowledge About Partner Selection

4.3.2.1 Cronbach's alpha (Average split half reliability)

```
Reliability analysis
Call: psych::alpha(x = .)
 raw_alpha std.alpha G6(smc) average_r S/N
                                               ase mean
      0.94
                0.94
                        0.93
                                   0.8 16 0.0086
                                                   1.7 1.2
                                                               0.79
lower alpha upper
                       95% confidence boundaries
0.92 0.94 0.96
Reliability if an item is dropped:
                        raw_alpha std.alpha G6(smc) average_r S/N alpha se
                                                         0.78 10
RightPartner_Change
                             0.91
                                       0.91
                                               0.88
                                                                      0.013
LearnPartner Change
                             0.92
                                       0.92
                                               0.88
                                                         0.79 11
                                                                      0.012
PaceRelationship Change
                             0.93
                                       0.93
                                               0.90
                                                         0.81 13
                                                                      0.011
WarningSigns_Change
                             0.93
                                       0.93
                                               0.91
                                                         0.82 14
                                                                      0.011
                          var.r med.r
RightPartner_Change
                        0.00075
                                 0.78
LearnPartner_Change
                        0.00029
                                 0.78
PaceRelationship_Change 0.00365
                                 0.81
WarningSigns_Change
                        0.00209
                                 0.80
 Item statistics
                          n raw.r std.r r.cor r.drop mean sd
RightPartner_Change
                        127 0.94 0.94 0.92
                                                0.89
                                                      1.6 1.3
                        128 0.93 0.93 0.91
LearnPartner_Change
                                                0.87 1.8 1.2
PaceRelationship Change 129
                             0.91 0.91
                                         0.87
                                                0.84 1.8 1.3
WarningSigns_Change
                        128
                             0.90 0.91
                                         0.86
                                                0.83 1.6 1.3
Non missing response frequency for each item
                          -3
                               -2
                                    -1
                                               1
                                                    2
                                                              4 miss
RightPartner_Change
                        0.00 0.01 0.02 0.16 0.29 0.30 0.13 0.10 0.02
LearnPartner_Change
                        0.00 0.01 0.01 0.12 0.30 0.33 0.12 0.12 0.01
PaceRelationship Change 0.00 0.02 0.01 0.10 0.33 0.27 0.16 0.11 0.00
                        0.01 0.01 0.01 0.15 0.30 0.27 0.18 0.08 0.01
WarningSigns_Change
```

4.3.2.2 Congeneric reliability (Jöreskog, 1971; Cho, 2016)

• Also called "composite reliability," "unidimensional omega," "Raju (1977) coefficient," and "worst split half reliability"



```
ICLUST (Item Cluster Analysis)
Call: iclust(r.mat = r.mat, nclusters = nclusters, alpha = alpha, beta = beta,
    beta.size = beta.size, alpha.size = alpha.size, correct = correct,
    correct.cluster = correct.cluster, reverse = reverse, beta.min = beta.min,
    output = output, digits = digits, labels = labels, cut = cut,
    n.iterations = n.iterations, title = title, plot = plot,
    weighted = weighted, cor.gen = cor.gen, SMC = SMC, purify = purify,
    diagonal = diagonal)

Purified Alpha:
[1] 0.94

G6* reliability:
[1] 1

Original Beta:
[1] 0.93

Cluster size:
```

Item by Cluster Structure matrix:

[,1]

RightPartner_Change 0.92 LearnPartner_Change 0.91 PaceRelationship_Change 0.87 WarningSigns_Change 0.85

With eigenvalues of:

[1] 3.1

Purified scale intercorrelations
reliabilities on diagonal
correlations corrected for attenuation above diagonal:
[,1]
[1,] 0.94

Cluster fit = 0.98 Pattern fit = 1 RMSR = 0.03

4.3.2.3 Summary

Cronbach's $\alpha = 0.94$ Congeneric reliability $\beta = 0.93$

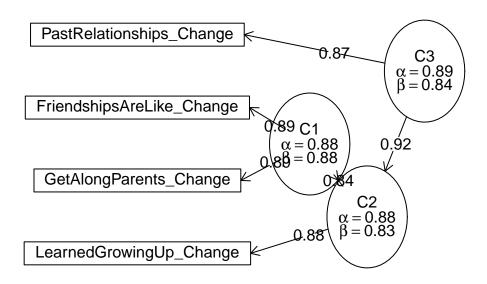
4.3.3 Perceived Importance of Knowledge About a Potential Partner's Relationships Patterns

4.3.3.1 Cronbach's alpha (Average split half reliability)

```
Reliability analysis
Call: psych::alpha(x = .)
 raw_alpha std.alpha G6(smc) average_r S/N
                                              ase mean
                                                         sd median r
      0.89
                0.89
                                  0.67 8.2 0.016
                        0.87
                                                  1.2 0.94
                                                               0.66
 lower alpha upper
                      95% confidence boundaries
0.86 0.89 0.92
Reliability if an item is dropped:
                          raw_alpha std.alpha G6(smc) average_r S/N
LearnedGrowingUp Change
                               0.88
                                         0.88
                                                 0.84
                                                           0.71 7.2
PastRelationships Change
                               0.88
                                         0.88
                                                 0.84
                                                           0.71 7.3
GetAlongParents_Change
                               0.85
                                         0.85
                                                 0.79
                                                           0.65 5.6
FriendshipsAreLike_Change
                               0.84
                                         0.84
                                                 0.77
                                                           0.63 5.1
                          alpha se var.r med.r
LearnedGrowingUp_Change
                             0.019 0.0056 0.67
PastRelationships_Change
                             0.019 0.0058 0.69
GetAlongParents_Change
                             0.023 0.0031 0.67
FriendshipsAreLike_Change
                             0.025 0.0014 0.64
Item statistics
                            n raw.r std.r r.cor r.drop mean sd
                          124 0.84 0.84 0.75
LearnedGrowingUp_Change
                                                  0.71 1.2 1.1
PastRelationships Change 124 0.84 0.84 0.75
                                                  0.71 1.3 1.1
GetAlongParents Change
                          124
                              0.89 0.89 0.85
                                                  0.80 1.1 1.1
FriendshipsAreLike_Change 124
                              0.90 0.91 0.88
                                                  0.83 1.1 1.1
Non missing response frequency for each item
                                 -1
                                       0
                                            1
                                                 2
                                                      3
                                                           4 miss
                          0.00 0.02 0.27 0.33 0.25 0.11 0.01 0.04
LearnedGrowingUp_Change
PastRelationships_Change 0.00 0.02 0.23 0.38 0.23 0.11 0.02 0.04
                          0.01 0.02 0.32 0.33 0.22 0.06 0.04 0.04
GetAlongParents_Change
FriendshipsAreLike Change 0.00 0.01 0.32 0.32 0.25 0.07 0.02 0.04
```

4.3.3.2 Congeneric reliability (Jöreskog, 1971; Cho, 2016)

• Also called "composite reliability," "unidimensional omega," "Raju (1977) coefficient," and "worst split half reliability"



```
ICLUST (Item Cluster Analysis)
Call: iclust(r.mat = r.mat, nclusters = nclusters, alpha = alpha, beta = beta,
    beta.size = beta.size, alpha.size = alpha.size, correct = correct,
    correct.cluster = correct.cluster, reverse = reverse, beta.min = beta.min,
    output = output, digits = digits, labels = labels, cut = cut,
    n.iterations = n.iterations, title = title, plot = plot,
    weighted = weighted, cor.gen = cor.gen, SMC = SMC, purify = purify,
    diagonal = diagonal)

Purified Alpha:
[1] 0.93

G6* reliability:
[1] 1

Original Beta:
[1] 0.9

Cluster size:
```

Item by Cluster Structure matrix: [,1] RightPartner_Before.n 0.90 LearnPartner_Before.n 0.89 PaceRelationship_Before.n 0.85 ${\tt WarningSigns_Before.n}$ 0.82 With eigenvalues of: [1] 3 Purified scale intercorrelations reliabilities on diagonal correlations corrected for attenuation above diagonal: [,1][1,] 0.93

Cluster fit = 0.97 Pattern fit = 1 RMSR = 0.04

4.3.3.3 Summary

Cronbach's $\alpha = 0.89$ Congeneric reliability $\beta = 0.84$

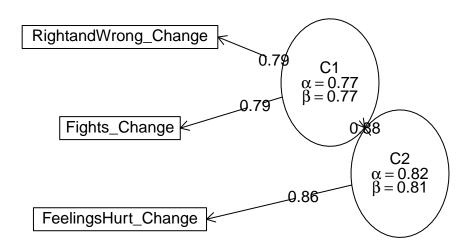
4.3.4 Perceived Importance of Knowledge About a Potential Partner's Relationship Behavior and Attitudes

4.3.4.1 Cronbach's alpha (Average split half reliability)

```
Reliability analysis
Call: psych::alpha(x = .)
 raw_alpha std.alpha G6(smc) average_r S/N
                                              ase mean
                                                         sd median r
      0.82
                0.82
                        0.76
                                  0.61 4.6 0.027
                                                               0.61
                                                    1 0.95
 lower alpha upper
                       95% confidence boundaries
0.76 0.82 0.87
Reliability if an item is dropped:
                     raw_alpha std.alpha G6(smc) average_r S/N alpha se
Fights Change
                          0.74
                                    0.74
                                            0.59
                                                      0.59 2.9
                                                                  0.046
FeelingsHurt_Change
                                            0.62
                                                      0.62 3.3
                          0.75
                                    0.77
                                                                  0.041
RightandWrong_Change
                          0.75
                                    0.75
                                            0.61
                                                      0.61 3.1
                                                                  0.044
                     var.r med.r
Fights_Change
                        NA 0.59
FeelingsHurt_Change
                        NA 0.62
RightandWrong_Change
                        NA 0.61
 Item statistics
                       n raw.r std.r r.cor r.drop mean
Fights_Change
                     124 0.89 0.87 0.76
                                             0.69 1.00 1.26
FeelingsHurt Change 124 0.85 0.85 0.73
                                             0.66 1.07 1.05
RightandWrong_Change 125
                         0.85 0.86 0.75
                                             0.68 0.93 0.97
Non missing response frequency for each item
                       -4
                            -2
                                 -1
                                       0
                                                 2
                                                      3
                                                           4 miss
Fights Change
                     0.01 0.02 0.03 0.28 0.39 0.15 0.10 0.03 0.04
FeelingsHurt_Change 0.00 0.00 0.02 0.31 0.40 0.19 0.06 0.03 0.04
RightandWrong_Change 0.00 0.01 0.01 0.34 0.42 0.16 0.05 0.02 0.03
```

4.3.4.2 Congeneric reliability (Jöreskog, 1971; Cho, 2016)

• Also called "composite reliability," "unidimensional omega," "Raju (1977) coefficient," and "worst split half reliability"



```
ICLUST (Item Cluster Analysis)
Call: iclust(r.mat = r.mat, nclusters = nclusters, alpha = alpha, beta = beta,
    beta.size = beta.size, alpha.size = alpha.size, correct = correct,
    correct.cluster = correct.cluster, reverse = reverse, beta.min = beta.min,
    output = output, digits = digits, labels = labels, cut = cut,
    n.iterations = n.iterations, title = title, plot = plot,
    weighted = weighted, cor.gen = cor.gen, SMC = SMC, purify = purify,
    diagonal = diagonal)

Purified Alpha:
[1] 0.82

G6* reliability:
[1] 1

Original Beta:
[1] 0.81

Cluster size:
```

Item by Cluster Structure matrix:

[,1]

Fights_Change 0.76

FeelingsHurt_Change 0.73

RightandWrong_Change 0.75

With eigenvalues of:

[1] 1.7

Purified scale intercorrelations

reliabilities on diagonal

correlations corrected for attenuation above diagonal:

[,1]

[1,] 0.82

Cluster fit = 0.89 Pattern fit = 1 RMSR = 0.05

4.3.4.3 Summary

Cronbach's $\alpha=0.82$ Congeneric reliability $\beta=0.81$

5 Exploratory Factor Analysis Treating Data as Categorical (On Full Sample)

5.1 Retrospective-Pre

Warning in matpLower(x, nvar, gminx, gmaxx, gminy, gmaxy): 37 cells were adjusted for 0 values using the correction for continuity. Examine your data carefully.

Warning in matpLower(x, nvar, gminx, gmaxx, gminy, gmaxy): 37 cells were adjusted for 0 values using the correction for continuity. Examine your data carefully.

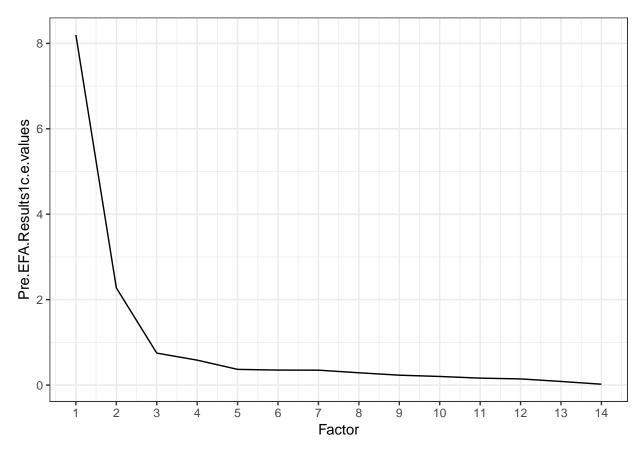
Warning in matpLower(x, nvar, gminx, gmaxx, gminy, gmaxy): 37 cells were adjusted for 0 values using the correction for continuity. Examine your data carefully.

Warning in matpLower(x, nvar, gminx, gmaxx, gminy, gmaxy): 37 cells were adjusted for 0 values using the correction for continuity. Examine your data carefully.

Warning in matpLower(x, nvar, gminx, gmaxx, gminy, gmaxy): 37 cells were adjusted for 0 values using the correction for continuity. Examine your data carefully.

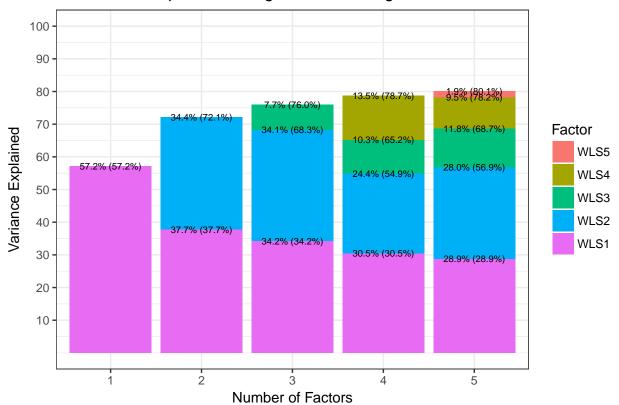
${\bf 5.1.0.1}\quad {\bf Determining\ Number\ of\ Factors}$

5.1.0.1.1 Screeplot



5.1.0.1.2 Proportion of Variance

EFA on Retrospective Categorical Pre-Program Assessment: Variance Ex



5.1.0.1.3 Parallel Analysis

Warning in matpLower(x, nvar, gminx, gmaxx, gminy, gmaxy): 37 cells were adjusted for 0 values using the correction for continuity. Examine your data carefully.

Warning in matpLower(x, nvar, gminx, gmaxx, gminy, gmaxy): 29 cells were adjusted for 0 values using the correction for continuity. Examine your data carefully.

Warning in matpLower(x, nvar, gminx, gmaxx, gminy, gmaxy): 32 cells were adjusted for 0 values using the correction for continuity. Examine your data carefully.

Warning in fac(r = r, nfactors = nfactors, n.obs = n.obs, rotate = rotate, : A loading greater than abs(1) was detected. Examine the loadings carefully.

The estimated weights for the factor scores are probably incorrect. Try a different factor ex

Warning in fac(r = r, nfactors = nfactors, n.obs = n.obs, rotate = rotate, : An ultra-Heywood case was detected. Examine the results carefully

Warning in matpLower(x, nvar, gminx, gmaxx, gminy, gmaxy): 33 cells were adjusted for 0 values using the correction for continuity. Examine your data carefully.

Warning in matpLower(x, nvar, gminx, gmaxx, gminy, gmaxy): 35 cells were adjusted for 0 values using the correction for continuity. Examine your data carefully.

Warning in matpLower(x, nvar, gminx, gmaxx, gminy, gmaxy): 34 cells were adjusted for 0 values using the correction for continuity. Examine your data carefully.

Warning in matpLower(x, nvar, gminx, gmaxx, gminy, gmaxy): 33 cells were adjusted for 0 values using the correction for continuity. Examine your data carefully.

Warning in matpLower(x, nvar, gminx, gmaxx, gminy, gmaxy): 33 cells were adjusted for 0 values using the correction for continuity. Examine your data carefully.

Warning in matpLower(x, nvar, gminx, gmaxx, gminy, gmaxy): 30 cells were adjusted for 0 values using the correction for continuity. Examine your data carefully.

Warning in matpLower(x, nvar, gminx, gmaxx, gminy, gmaxy): 31 cells were adjusted for 0 values using the correction for continuity. Examine your data carefully.

Warning in matpLower(x, nvar, gminx, gmaxx, gminy, gmaxy): 39 cells were adjusted for 0 values using the correction for continuity. Examine your data carefully.

Warning in matpLower(x, nvar, gminx, gmaxx, gminy, gmaxy): 42 cells were adjusted for 0 values using the correction for continuity. Examine your data carefully.

Warning in matpLower(x, nvar, gminx, gmaxx, gminy, gmaxy): 28 cells were adjusted for 0 values using the correction for continuity. Examine your data carefully.

Warning in matpLower(x, nvar, gminx, gmaxx, gminy, gmaxy): 41 cells were adjusted for 0 values using the correction for continuity. Examine your data carefully.

Warning in matpLower(x, nvar, gminx, gmaxx, gminy, gmaxy): 26 cells were adjusted for 0 values using the correction for continuity. Examine your data carefully.

Warning in matpLower(x, nvar, gminx, gmaxx, gminy, gmaxy): 32 cells were adjusted for 0 values using the correction for continuity. Examine your data carefully.

Warning in matpLower(x, nvar, gminx, gmaxx, gminy, gmaxy): 36 cells were adjusted for 0 values using the correction for continuity. Examine your data carefully.

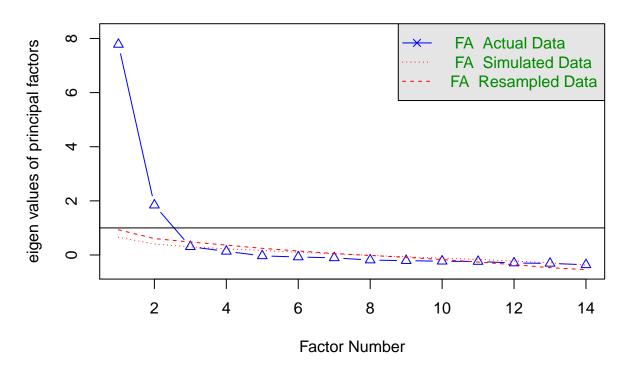
Warning in matpLower(x, nvar, gminx, gmaxx, gminy, gmaxy): 44 cells were adjusted for 0 values using the correction for continuity. Examine your data carefully.

Warning in matpLower(x, nvar, gminx, gmaxx, gminy, gmaxy): 28 cells were adjusted for 0 values using the correction for continuity. Examine your data carefully.

Warning in matpLower(x, nvar, gminx, gmaxx, gminy, gmaxy): 22 cells were adjusted for 0 values using the correction for continuity. Examine your data carefully.

Warning in matpLower(x, nvar, gminx, gmaxx, gminy, gmaxy): 33 cells were adjusted for 0 values using the correction for continuity. Examine your data carefully.

Parallel Analysis Scree Plots



Parallel analysis suggests that the number of factors = 3 and the number of components = NA

5.1.0.1.4 EFA Results

One Factor

Factor analysis with Call: psych::fa(r = Pre_vars.c, nfactors = 1, rotate = "Promax", fm = "wls", cor = "poly")

Test of the hypothesis that 1 factor is sufficient. The degrees of freedom for the model is 77 and the objective function was 6.86 The number of observations was 188 with Chi Square = 1240.19 with prob < 3.3e-209

The root mean square of the residuals (RMSA) is 0.15 The df corrected root mean square of the residuals is 0.16

Tucker Lewis Index of factoring reliability = 0.492 RMSEA index = 0.289 and the 10 % confidence intervals are 0.27 0.298 BIC = 836.98

Two Factors

Factor analysis with Call: psych::fa(r = Pre_vars.c, nfactors = 2, rotate = "Promax", fm = "wls", cor = "poly")

Test of the hypothesis that 2 factors are sufficient. The degrees of freedom for the model is 64 and the objective function was 3.21 The number of observations was 188 with Chi Square = 578.83 with prob < 5.6e-84

The root mean square of the residuals (RMSA) is 0.05 The df corrected root mean square of the residuals is 0.06

Tucker Lewis Index of factoring reliability = 0.729 RMSEA index = 0.212 and the 10 % confidence intervals are 0.192 0.223 BIC = 243.7 With factor correlations of WLS1 WLS2 WLS1 1.00 0.58 WLS2 0.58 1.00

Three Factors

Factor analysis with Call: psych::fa(r = Pre_vars.c, nfactors = 3, rotate = "Promax", fm = "wls", cor = "poly")

Test of the hypothesis that 3 factors are sufficient. The degrees of freedom for the model is 52 and the objective function was 2.42 The number of observations was 188 with Chi Square = 434.82 with prob < 7.5e-62

The root mean square of the residuals (RMSA) is 0.03 The df corrected root mean square of the residuals is 0.04

Tucker Lewis Index of factoring reliability = 0.751 RMSEA index = 0.203 and the 10 % confidence intervals are 0.181 0.216 BIC = 162.52 With factor correlations of WLS2 WLS1 WLS3 WLS2 1.00 0.53 0.43 WLS1 0.53 1.00 0.34 WLS3 0.43 0.34 1.00

Four Factors

Factor analysis with Call: psych::fa(r = Pre_vars.c, nfactors = 4, rotate = "Promax", fm = "wls", cor = "poly")

Test of the hypothesis that 4 factors are sufficient. The degrees of freedom for the model is 41 and the objective function was 1.77 The number of observations was 188 with Chi Square = 316.43 with prob < 3.1e-44

The root mean square of the residuals (RMSA) is 0.02 The df corrected root mean square of the residuals is 0.03

Tucker Lewis Index of factoring reliability = 0.772 RMSEA index = 0.194 and the 10 % confidence intervals are 0.17 0.209 BIC = 101.74 With factor correlations of WLS1 WLS2 WLS4 WLS3 WLS1 1.00 0.55 0.44 0.60 WLS2 0.55 1.00 0.67 0.45 WLS4 0.44 0.67 1.00 0.24 WLS3 0.60 0.45 0.24 1.00

Five Factors

Factor analysis with Call: psych::fa(r = Pre_vars.c, nfactors = 5, rotate = "Promax", fm = "wls", cor = "poly")

Test of the hypothesis that 5 factors are sufficient. The degrees of freedom for the model is 31 and the objective function was 1.35 The number of observations was 188 with Chi Square = 240.18 with prob < 3.4e-34

The root mean square of the residuals (RMSA) is 0.02 The df corrected root mean square of the residuals is 0.03

Tucker Lewis Index of factoring reliability = 0.77 RMSEA index = 0.195 and the 10 % confidence intervals are 0.168 0.213 BIC = 77.85 With factor correlations of WLS1 WLS2 WLS3 WLS4 WLS5 WLS1 1.00 0.56 0.69 0.46 -0.24 WLS2 0.56 1.00 0.50 0.54 -0.07 WLS3 0.69 0.50 1.00 0.26 -0.20 WLS4 0.46 0.54 0.26 1.00 -0.03 WLS5 -0.24 -0.07 -0.20 -0.03 1.00

5.1.0.1.5 Comparing Loadings

One Factor

% Called in the psych package psych::fa2latex % Called in the psych package Pre.EFA.Results1c

Table 41: fa2latex

A factor analysis table from the psych package in R						
Variable	WLS1	WLS1.1	WLS1.2	com		
Healthy_Rel_Before.3n	0.82	0.67	0.33	1		
Communicate_Before.3n	0.72	0.52	0.48	1		
ConflictManagement_Before.3n	0.78	0.61	0.39	1		
RightPartner_Before.3n	0.77	0.59	0.41	1		
LearnPartner_Before.3n	0.84	0.71	0.29	1		
PaceRelationship_Before.3n	0.82	0.68	0.32	1		
WarningSigns_Before.3n	0.78	0.60	0.40	1		
$LearnedGrowingUp_Before.3n$	0.77	0.59	0.41	1		
PastRelationships_Before.3n	0.68	0.47	0.53	1		
GetAlongParents_Before.3n	0.75	0.57	0.43	1		
FriendshipsAreLike_Before.3n	0.80	0.63	0.37	1		
Fights_Before.3n	0.64	0.41	0.59	1		
FeelingsHurt_Before.3n	0.69	0.48	0.52	1		
RightandWrong_Before.3n	0.70	0.49	0.51	1		
SS loadings	8.01					

Two Factors

% Called in the psych package psych::fa2latex % Called in the psych package Pre.EFA.Results2c

Table 42: fa2latex
A factor analysis table from the psych package in R

11 lactor analysis table from the p	by on pac	10050 1111 10			
Variable	WLS1	WLS2	h2	u2	com
Healthy_Rel_Before.3n	0.75	0.16	0.73	0.27	1.08
Communicate_Before.3n	0.81	-0.01	0.65	0.35	1.00
$ConflictManagement_Before.3n$	0.85	0.02	0.74	0.26	1.00
RightPartner_Before.3n	0.98	-0.14	0.83	0.17	1.04
LearnPartner_Before.3n	0.90	0.04	0.85	0.15	1.00
PaceRelationship_Before.3n	0.87	0.05	0.80	0.20	1.01
WarningSigns_Before.3n	0.86	0.00	0.74	0.26	1.00
LearnedGrowingUp_Before.3n	0.08	0.80	0.72	0.28	1.02
PastRelationships_Before.3n	-0.08	0.86	0.67	0.33	1.02
GetAlongParents_Before.3n	-0.02	0.89	0.76	0.24	1.00
FriendshipsAreLike_Before.3n	0.03	0.88	0.81	0.19	1.00
Fights_Before.3n	0.11	0.62	0.47	0.53	1.06
FeelingsHurt_Before.3n	-0.02	0.81	0.64	0.36	1.00
RightandWrong_Before.3n	-0.06	0.86	0.68	0.32	1.01
SS loadings	5.28	4.81			
WLS1	1.00	0.58			
WLS2	0.58	1.00			

Three Factors

% Called in the psych package psych::fa2latex % Called in the psych package Pre.EFA.Results3c

Table 43: fa2latex								
A factor analysis table from the p								
Variable	WLS2	WLS1	WLS3	h2	u2	com		
Healthy_Rel_Before.3n	0.13	0.65	0.26	0.74	0.26	1.41		
Communicate_Before.3n	-0.08	0.64	0.44	0.71	0.29	1.80		
$ConflictManagement_Before.3n$	-0.06	0.65	0.49	0.82	0.18	1.88		
RightPartner_Before.3n	-0.12	0.92	0.14	0.83	0.17	1.09		
LearnPartner_Before.3n	0.07	0.88	0.02	0.87	0.13	1.01		
PaceRelationship_Before.3n	0.13	0.92	-0.16	0.90	0.10	1.10		
WarningSigns_Before.3n	0.04	0.85	0.01	0.76	0.24	1.00		
LearnedGrowingUp_Before.3n	0.73	-0.02	0.28	0.77	0.23	1.28		
PastRelationships_Before.3n	0.92	0.03	-0.26	0.73	0.27	1.16		
GetAlongParents_Before.3n	0.89	-0.01	-0.03	0.76	0.24	1.00		
FriendshipsAreLike_Before.3n	0.94	0.14	-0.28	0.88	0.12	1.22		
Fights_Before.3n	0.56	0.01	0.27	0.52	0.48	1.43		
FeelingsHurt_Before.3n	0.78	-0.06	0.12	0.65	0.35	1.05		
RightandWrong_Before.3n	0.83	-0.08	0.08	0.69	0.31	1.04		
SS loadings	4.78	4.79	1.07					
WLS2	1.00	0.53	0.43					
WLS1	0.53	1.00	0.34					
WLS3	0.43	0.34	1.00					

Four Factors

% Called in the psych package psych::fa2latex % Called in the psych package Pre.EFA.Results4c

Table 44: fa2latex

Variable WLS1 WLS2 WLS4 WLS3 h2 u2 com Healthy_Rel_Before.3n 0.51 0.16 0.02 0.32 0.74 0.26 1.89 Communicate_Before.3n 0.38 0.02 -0.01 0.57 0.74 0.26 1.73 ConflictManagement_Before.3n 0.32 -0.01 0.06 0.70 0.89 0.11 1.40 RightPartner_Before.3n 0.88 -0.04 -0.09 0.15 0.84 0.16 1.09 LearnPartner_Before.3n 0.93 0.10 -0.05 -0.04 0.89 0.11 1.03 PaceRelationship_Before.3n 0.95 -0.15 0.22 -0.05 0.90 0.10 1.17 WarningSigns_Before.3n 0.88 0.03 -0.03 -0.02 0.78 0.22 1.01 LearnedGrowingUp_Before.3n -0.04 0.86 0.01 0.10 0.79 0.21 1.03 PastRelationships_Before.3n -0.16 0.31 0.66	A factor analysis table from the psych package in R									
Communicate_Before.3n 0.38 0.02 -0.01 0.57 0.74 0.26 1.73 ConflictManagement_Before.3n 0.32 -0.01 0.06 0.70 0.89 0.11 1.40 RightPartner_Before.3n 0.88 -0.04 -0.09 0.15 0.84 0.16 1.09 LearnPartner_Before.3n 0.93 0.10 -0.05 -0.04 0.89 0.11 1.03 PaceRelationship_Before.3n 0.95 -0.15 0.22 -0.05 0.90 0.10 1.17 WarningSigns_Before.3n 0.88 0.03 -0.03 -0.02 0.78 0.22 1.01 LearnedGrowingUp_Before.3n -0.04 0.86 0.01 0.10 0.79 0.21 1.03 PastRelationships_Before.3n 0.12 0.43 0.50 -0.21 0.73 0.27 2.46 GetAlongParents_Before.3n -0.16 0.31 0.66 0.24 0.84 0.16 1.86 FriedshipsAreLike_Before.3n -0.07 0.79	Variable	WLS1	WLS2	WLS4	WLS3	h2	u2	com		
ConflictManagement_Before.3n 0.32 -0.01 0.06 0.70 0.89 0.11 1.40 RightPartner_Before.3n 0.88 -0.04 -0.09 0.15 0.84 0.16 1.09 LearnPartner_Before.3n 0.93 0.10 -0.05 -0.04 0.89 0.11 1.03 PaceRelationship_Before.3n 0.95 -0.15 0.22 -0.05 0.90 0.10 1.17 WarningSigns_Before.3n 0.88 0.03 -0.03 -0.02 0.78 0.22 1.01 LearnedGrowingUp_Before.3n -0.04 0.86 0.01 0.10 0.79 0.21 1.03 PastRelationships_Before.3n -0.12 0.43 0.50 -0.21 0.73 0.27 2.46 GetAlongParents_Before.3n -0.16 0.31 0.66 0.24 0.84 0.16 1.86 FriendshipsAreLike_Before.3n 0.09 0.17 0.79 0.02 0.93 0.07 1.12 FeelingsHurt_Before.3n -0.03 0.	Healthy_Rel_Before.3n	0.51	0.16	0.02	0.32	0.74	0.26	1.89		
RightPartner_Before.3n 0.88 -0.04 -0.09 0.15 0.84 0.16 1.09 LearnPartner_Before.3n 0.93 0.10 -0.05 -0.04 0.89 0.11 1.03 PaceRelationship_Before.3n 0.95 -0.15 0.22 -0.05 0.90 0.10 1.17 WarningSigns_Before.3n 0.88 0.03 -0.03 -0.02 0.78 0.22 1.01 LearnedGrowingUp_Before.3n -0.04 0.86 0.01 0.10 0.79 0.21 1.03 PastRelationships_Before.3n -0.12 0.43 0.50 -0.21 0.73 0.27 2.46 GetAlongParents_Before.3n -0.16 0.31 0.66 0.24 0.84 0.16 1.86 FriendshipsAreLike_Before.3n 0.09 0.17 0.79 0.02 0.93 0.07 1.12 Fights_Before.3n -0.03 0.74 0.13 -0.01 0.66 0.34 1.06 RightandWrong_Before.3n -0.03 0.78 0.14 -0.07 0.71 0.29 1.08 SS loadings<	Communicate_Before.3n	0.38	0.02	-0.01	0.57	0.74	0.26	1.73		
LearnPartner_Before.3n 0.93 0.10 -0.05 -0.04 0.89 0.11 1.03 PaceRelationship_Before.3n 0.95 -0.15 0.22 -0.05 0.90 0.10 1.17 WarningSigns_Before.3n 0.88 0.03 -0.03 -0.02 0.78 0.22 1.01 LearnedGrowingUp_Before.3n -0.04 0.86 0.01 0.10 0.79 0.21 1.03 PastRelationships_Before.3n 0.12 0.43 0.50 -0.21 0.73 0.27 2.46 GetAlongParents_Before.3n -0.16 0.31 0.66 0.24 0.84 0.16 1.86 FriendshipsAreLike_Before.3n 0.09 0.17 0.79 0.02 0.93 0.07 1.12 Fights_Before.3n 0.07 0.85 -0.19 -0.03 0.59 0.41 1.12 FeelingsHurt_Before.3n -0.03 0.74 0.13 -0.01 0.66 0.34 1.06 RightandWrong_Before.3n -0.03 0.78	$ConflictManagement_Before.3n$	0.32	-0.01	0.06	0.70	0.89	0.11	1.40		
PaceRelationship_Before.3n 0.95 -0.15 0.22 -0.05 0.90 0.10 1.17 WarningSigns_Before.3n 0.88 0.03 -0.03 -0.02 0.78 0.22 1.01 LearnedGrowingUp_Before.3n -0.04 0.86 0.01 0.10 0.79 0.21 1.03 PastRelationships_Before.3n 0.12 0.43 0.50 -0.21 0.73 0.27 2.46 GetAlongParents_Before.3n -0.16 0.31 0.66 0.24 0.84 0.16 1.86 FriendshipsAreLike_Before.3n 0.09 0.17 0.79 0.02 0.93 0.07 1.12 Fights_Before.3n 0.07 0.85 -0.19 -0.03 0.59 0.41 1.12 FeelingsHurt_Before.3n -0.03 0.74 0.13 -0.01 0.66 0.34 1.06 RightandWrong_Before.3n -0.03 0.78 0.14 -0.07 0.71 0.29 1.08 SS loadings 4.27 3.41 1.8	RightPartner_Before.3n	0.88	-0.04	-0.09	0.15	0.84	0.16	1.09		
WarningSigns_Before.3n 0.88 0.03 -0.03 -0.02 0.78 0.22 1.01 LearnedGrowingUp_Before.3n -0.04 0.86 0.01 0.10 0.79 0.21 1.03 PastRelationships_Before.3n 0.12 0.43 0.50 -0.21 0.73 0.27 2.46 GetAlongParents_Before.3n -0.16 0.31 0.66 0.24 0.84 0.16 1.86 FriendshipsAreLike_Before.3n 0.09 0.17 0.79 0.02 0.93 0.07 1.12 Fights_Before.3n 0.07 0.85 -0.19 -0.03 0.59 0.41 1.12 FeelingsHurt_Before.3n -0.03 0.74 0.13 -0.01 0.66 0.34 1.06 RightandWrong_Before.3n -0.03 0.78 0.14 -0.07 0.71 0.29 1.08 SS loadings 4.27 3.41 1.89 1.44 WLS1 ### US2 ### US4 ##	LearnPartner_Before.3n	0.93	0.10	-0.05	-0.04	0.89	0.11	1.03		
LearnedGrowingUp_Before.3n -0.04 0.86 0.01 0.10 0.79 0.21 1.03 PastRelationships_Before.3n 0.12 0.43 0.50 -0.21 0.73 0.27 2.46 GetAlongParents_Before.3n -0.16 0.31 0.66 0.24 0.84 0.16 1.86 FriendshipsAreLike_Before.3n 0.09 0.17 0.79 0.02 0.93 0.07 1.12 Fights_Before.3n 0.07 0.85 -0.19 -0.03 0.59 0.41 1.12 FeelingsHurt_Before.3n -0.03 0.74 0.13 -0.01 0.66 0.34 1.06 RightandWrong_Before.3n -0.03 0.78 0.14 -0.07 0.71 0.29 1.08 SS loadings 4.27 3.41 1.89 1.44 WLS1 1.00 0.55 0.44 0.60 WLS2 0.55 1.00 0.67 0.45 WLS4 0.44 0.67 1.00 0.24	PaceRelationship_Before.3n	0.95	-0.15	0.22	-0.05	0.90	0.10	1.17		
PastRelationships_Before.3n 0.12 0.43 0.50 -0.21 0.73 0.27 2.46 GetAlongParents_Before.3n -0.16 0.31 0.66 0.24 0.84 0.16 1.86 FriendshipsAreLike_Before.3n 0.09 0.17 0.79 0.02 0.93 0.07 1.12 Fights_Before.3n 0.07 0.85 -0.19 -0.03 0.59 0.41 1.12 FeelingsHurt_Before.3n -0.03 0.74 0.13 -0.01 0.66 0.34 1.06 RightandWrong_Before.3n -0.03 0.78 0.14 -0.07 0.71 0.29 1.08 SS loadings 4.27 3.41 1.89 1.44	WarningSigns_Before.3n	0.88	0.03	-0.03	-0.02	0.78	0.22	1.01		
GetAlongParents_Before.3n -0.16 0.31 0.66 0.24 0.84 0.16 1.86 FriendshipsAreLike_Before.3n 0.09 0.17 0.79 0.02 0.93 0.07 1.12 Fights_Before.3n 0.07 0.85 -0.19 -0.03 0.59 0.41 1.12 FeelingsHurt_Before.3n -0.03 0.74 0.13 -0.01 0.66 0.34 1.06 RightandWrong_Before.3n -0.03 0.78 0.14 -0.07 0.71 0.29 1.08 SS loadings 4.27 3.41 1.89 1.44 WLS1 1.00 0.55 0.44 0.60 WLS2 0.55 1.00 0.67 0.45 WLS4 0.44 0.67 1.00 0.24	$LearnedGrowingUp_Before.3n$	-0.04	0.86	0.01	0.10	0.79	0.21	1.03		
FriendshipsAreLike_Before.3n 0.09 0.17 0.79 0.02 0.93 0.07 1.12 Fights_Before.3n 0.07 0.85 -0.19 -0.03 0.59 0.41 1.12 FeelingsHurt_Before.3n -0.03 0.74 0.13 -0.01 0.66 0.34 1.06 RightandWrong_Before.3n -0.03 0.78 0.14 -0.07 0.71 0.29 1.08 SS loadings 4.27 3.41 1.89 1.44	PastRelationships_Before.3n	0.12	0.43	0.50	-0.21	0.73	0.27	2.46		
Fights_Before.3n 0.07 0.85 -0.19 -0.03 0.59 0.41 1.12 FeelingsHurt_Before.3n -0.03 0.74 0.13 -0.01 0.66 0.34 1.06 RightandWrong_Before.3n -0.03 0.78 0.14 -0.07 0.71 0.29 1.08 SS loadings 4.27 3.41 1.89 1.44 WLS1 1.00 0.55 0.44 0.60 WLS2 0.55 1.00 0.67 0.45 WLS4 0.44 0.67 1.00 0.24	GetAlongParents_Before.3n	-0.16	0.31	0.66	0.24	0.84	0.16	1.86		
FeelingsHurt_Before.3n -0.03 0.74 0.13 -0.01 0.66 0.34 1.06 RightandWrong_Before.3n -0.03 0.78 0.14 -0.07 0.71 0.29 1.08 SS loadings 4.27 3.41 1.89 1.44 WLS1 1.00 0.55 0.44 0.60 WLS2 0.55 1.00 0.67 0.45 WLS4 0.44 0.67 1.00 0.24	FriendshipsAreLike_Before.3n	0.09	0.17	0.79	0.02	0.93	0.07	1.12		
RightandWrong_Before.3n -0.03 0.78 0.14 -0.07 0.71 0.29 1.08 SS loadings 4.27 3.41 1.89 1.44	Fights_Before.3n	0.07	0.85	-0.19	-0.03	0.59	0.41	1.12		
SS loadings 4.27 3.41 1.89 1.44 WLS1 1.00 0.55 0.44 0.60 WLS2 0.55 1.00 0.67 0.45 WLS4 0.44 0.67 1.00 0.24	FeelingsHurt_Before.3n	-0.03	0.74	0.13	-0.01	0.66	0.34	1.06		
WLS1 1.00 0.55 0.44 0.60 WLS2 0.55 1.00 0.67 0.45 WLS4 0.44 0.67 1.00 0.24	RightandWrong_Before.3n	-0.03	0.78	0.14	-0.07	0.71	0.29	1.08		
WLS1 1.00 0.55 0.44 0.60 WLS2 0.55 1.00 0.67 0.45 WLS4 0.44 0.67 1.00 0.24										
WLS2 0.55 1.00 0.67 0.45 WLS4 0.44 0.67 1.00 0.24	SS loadings	4.27	3.41	1.89	1.44					
WLS2 0.55 1.00 0.67 0.45 WLS4 0.44 0.67 1.00 0.24										
WLS2 0.55 1.00 0.67 0.45 WLS4 0.44 0.67 1.00 0.24										
WLS4 0.44 0.67 1.00 0.24	WLS1	1.00	0.55	0.44	0.60					
	WLS2	0.55	1.00	0.67	0.45					
WLS3 0.60 0.45 0.24 1.00	WLS4	0.44	0.67	1.00	0.24					
	WLS3	0.60	0.45	0.24	1.00					

Five Factors

% Called in the psych package psych::fa2latex % Called in the psych package Pre.EFA.Results5c

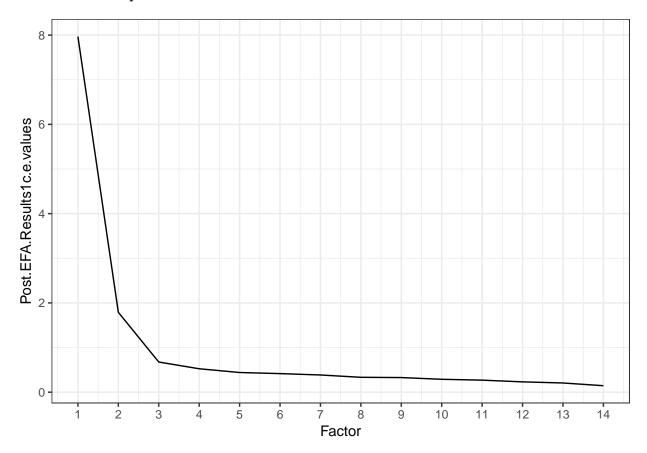
Table 45: fa2latex

A factor analysis table from the p			1021002	_				
Variable	WLS1	WLS2	WLS3	WLS4	WLS5	h2	u2	com
Healthy_Rel_Before.3n	0.33	0.13	0.42	0.13	-0.16	0.78	0.22	2.69
Communicate_Before.3n	0.32	0.01	0.63	-0.04	0.07	0.74	0.26	1.53
$ConflictManagement_Before.3n$	0.23	0.00	0.78	0.03	0.07	0.89	0.11	1.19
RightPartner_Before.3n	0.95	-0.05	0.12	-0.15	0.09	0.86	0.14	1.11
LearnPartner_Before.3n	0.99	0.09	-0.07	-0.08	0.04	0.91	0.09	1.05
PaceRelationship_Before.3n	0.89	-0.10	-0.03	0.23	-0.04	0.90	0.10	1.18
WarningSigns_Before.3n	0.83	0.02	0.00	0.02	-0.09	0.78	0.22	1.02
LearnedGrowingUp_Before.3n	-0.11	0.86	0.14	0.02	-0.05	0.79	0.21	1.10
PastRelationships_Before.3n	0.07	0.57	-0.21	0.44	0.04	0.73	0.27	2.22
GetAlongParents_Before.3n	0.01	0.54	0.16	0.34	0.48	0.91	0.09	2.89
FriendshipsAreLike_Before.3n	-0.01	0.38	0.06	0.70	0.10	0.95	0.05	1.62
Fights_Before.3n	0.08	0.81	-0.03	-0.18	-0.04	0.59	0.41	1.13
FeelingsHurt_Before.3n	-0.03	0.79	-0.01	0.08	0.05	0.66	0.34	1.03
RightandWrong_Before.3n	0.02	0.84	-0.09	0.05	0.10	0.71	0.29	1.06
SS loadings	4.04	3.92	1.66	1.33	0.26			
WLS1	1.00	0.56	0.69	0.46	-0.24			
WLS2	0.56	1.00	0.50	0.54	-0.07			
WLS3	0.69	0.50	1.00	0.26	-0.20			
WLS4	0.46	0.54	0.26	1.00	-0.03			
WLS5	-0.24	-0.07	-0.20	-0.03	1.00			

5.2 Post

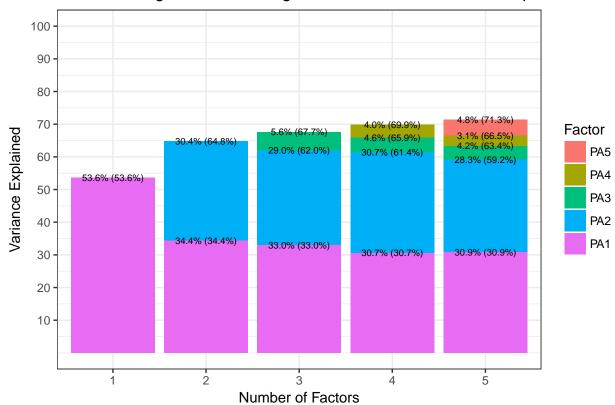
5.2.0.1 Determining Number of Factors

5.2.0.1.1 Screeplot



5.2.0.1.2 Proportion of Variance

EFA on Categorical Post-Program Assessment: Variance Explained

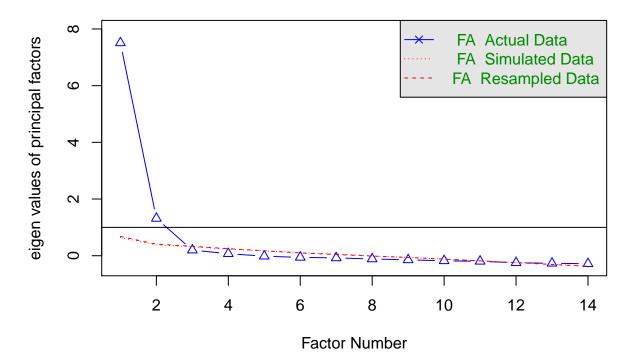


5.2.0.1.3 Parallel Analysis

Warning in fac(r = r, nfactors = nfactors, n.obs = n.obs, rotate = rotate, : A loading greater than abs(1) was detected. Examine the loadings carefully.

The estimated weights for the factor scores are probably incorrect. Try a different factor exwarning in fac(r = r, nfactors = nfactors, n.obs = n.obs, rotate = rotate, : An ultra-Heywood case was detected. Examine the results carefully

Parallel Analysis Scree Plots



Parallel analysis suggests that the number of factors = 2 and the number of components = NA

5.2.0.1.4 EFA Results

One Factor

Factor analysis with Call: psych::fa(r = Post_vars.c, nfactors = 1, rotate = "Promax", fm = "pa", cor = "cor")

Test of the hypothesis that 1 factor is sufficient. The degrees of freedom for the model is 77 and the objective function was 2.77 The number of observations was 188 with Chi Square = 501.18 with prob < 1.9e-63

The root mean square of the residuals (RMSA) is 0.11 The df corrected root mean square of the residuals is 0.12

Tucker Lewis Index of factoring reliability = 0.73 RMSEA index = 0.175 and the 10 % confidence intervals are 0.157 0.186 BIC = 97.97

Two Factors

Factor analysis with Call: psych::fa(r = Post_vars.c, nfactors = 2, rotate = "Promax", fm = "pa", cor = "cor")

Test of the hypothesis that 2 factors are sufficient. The degrees of freedom for the model is 64 and the objective function was 0.77 The number of observations was 188 with Chi Square = 139.04 with prob < 1.8e-07

The root mean square of the residuals (RMSA) is 0.03 The df corrected root mean square of the residuals is 0.04

Tucker Lewis Index of factoring reliability = 0.942 RMSEA index = 0.082 and the 10 % confidence intervals are 0.061 0.097 BIC = -196.09 With factor correlations of PA1 PA2 PA1 1.00 0.66 PA2 0.66 1.00

Three Factors

Factor analysis with Call: psych::fa(r = Post_vars.c, nfactors = 3, rotate = "Promax", fm = "pa", cor = "cor")

Test of the hypothesis that 3 factors are sufficient. The degrees of freedom for the model is 52 and the objective function was 0.5 The number of observations was 188 with Chi Square = 89.9 with prob < 0.00086

The root mean square of the residuals (RMSA) is 0.02 The df corrected root mean square of the residuals is 0.03

Tucker Lewis Index of factoring reliability = 0.964 RMSEA index = 0.065 and the 10 % confidence intervals are 0.04 0.084 BIC = -182.4 With factor correlations of PA1 PA2 PA3 PA1 1.00 0.64 0.19 PA2 0.64 1.00 0.27 PA3 0.19 0.27 1.00

Four Factors

Factor analysis with Call: psych::fa(r = Post_vars.c, nfactors = 4, rotate = "Promax", fm = "pa", cor = "cor")

Test of the hypothesis that 4 factors are sufficient. The degrees of freedom for the model is 41 and the objective function was 0.3 The number of observations was 188 with Chi Square = 54.3 with prob < 0.08

The root mean square of the residuals (RMSA) is 0.02 The df corrected root mean square of the residuals is 0.03

Tucker Lewis Index of factoring reliability = 0.984 RMSEA index = 0.045 and the 10 % confidence intervals are 0 0.069 BIC = -160.4 With factor correlations of PA1 PA2 PA3 PA4 PA1 1.00 0.57 -0.04 0.04 PA2 0.57 1.00 0.28 0.36 PA3 -0.04 0.28 1.00 0.57 PA4 0.04 0.36 0.57 1.00

Five Factors

Factor analysis with Call: psych::fa(r = Post_vars.c, nfactors = 5, rotate = "Promax", fm = "pa", cor = "cor")

Test of the hypothesis that 5 factors are sufficient. The degrees of freedom for the model is 31 and the objective function was 0.22 The number of observations was 188 with Chi Square = 39.05 with prob < 0.15

The root mean square of the residuals (RMSA) is 0.01 The df corrected root mean square of the residuals is 0.02

Tucker Lewis Index of factoring reliability = 0.987 RMSEA index = 0.042 and the 10 % confidence intervals are 0.007 BIC = -123.28 With factor correlations of PA1 PA2 PA5 PA3 PA4 PA1 1.00 0.60 0.20 0.22 0.13 PA2 0.60 1.00 0.32 0.27 0.17 PA5 0.20 0.32 1.00 0.45 0.27 PA3 0.22 0.27 0.45 1.00 0.28 PA4 0.13 0.17 0.27 0.28 1.00

5.2.0.1.5 Comparing Loadings

One Factor

% Called in the psych package psych::fa2latex % Called in the psych package Post.EFA.Results1c

Table 46: fa2latex

A factor analysis table from the psych package in R									
Variable	PA1	PA1.1	PA1.2	com					
Healthy_Rel.3n	0.71	0.50	0.50	1					
Communicate.3n	0.76	0.58	0.42	1					
ConflictManagement.3n	0.72	0.51	0.49	1					
RightPartner.3n	0.68	0.46	0.54	1					
LearnPartner.3n	0.81	0.65	0.35	1					
PaceRelationship.3n	0.77	0.59	0.41	1					
WarningSigns.3n	0.79	0.62	0.38	1					
LearnedGrowingUp.3n	0.69	0.48	0.52	1					
PastRelationships.3n	0.73	0.53	0.47	1					
GetAlongParents.3n	0.71	0.51	0.49	1					
FriendshipsAreLike.3n	0.70	0.49	0.51	1					
Fights.3n	0.70	0.50	0.50	1					
FeelingsHurt.3n	0.74	0.54	0.46	1					
RightandWrong.3n	0.74	0.55	0.45	1					
001 1:									
SS loadings	7.51								

Two Factors

% Called in the psych package psych::fa2latex % Called in the psych package Post.EFA.Results2c

 $\begin{array}{c} {\rm Table~47:~fa2latex} \\ {\rm A~factor~analysis~table~from~the~psych~package~in~R} \end{array}$

Variable	PA1	PA2	h2	u2	com
Healthy_Rel.3n	0.80	-0.03	0.61	0.39	1.00
Communicate.3n	0.81	0.02	0.68	0.32	1.00
ConflictManagement.3n	0.78	0.00	0.61	0.39	1.00
RightPartner.3n	0.86	-0.12	0.62	0.38	1.04
LearnPartner.3n	0.81	0.07	0.74	0.26	1.01
PaceRelationship.3n	0.72	0.11	0.64	0.36	1.05
WarningSigns.3n	0.89	-0.03	0.76	0.24	1.00
LearnedGrowingUp.3n	-0.01	0.78	0.61	0.39	1.00
PastRelationships.3n	-0.05	0.88	0.71	0.29	1.01
GetAlongParents.3n	0.16	0.63	0.56	0.44	1.12
FriendshipsAreLike.3n	-0.14	0.94	0.74	0.26	1.04
Fights.3n	0.09	0.70	0.57	0.43	1.03
FeelingsHurt.3n	0.23	0.58	0.57	0.43	1.30
RightandWrong.3n	0.02	0.81	0.68	0.32	1.00
SS loadings	4.81	4.26			
PA1	1.00	0.66			
PA2	0.66	1.00			

Three Factors

% Called in the psych package psych::fa2latex % Called in the psych package Post.EFA.Results3c

			Tal	ole	48: fa	a2latex		
factor	analysis	table	from	the	psych	package	in	F

A factor analysis table from the psych package in R										
Variable	PA1	PA2	PA3	h2	u2	com				
Healthy_Rel.3n	0.78	0.01	-0.01	0.62	0.38	1.00				
Communicate.3n	0.78	0.00	0.16	0.68	0.32	1.09				
ConflictManagement.3n	0.77	0.05	-0.05	0.63	0.37	1.02				
RightPartner.3n	0.87	-0.05	-0.13	0.68	0.32	1.05				
LearnPartner.3n	0.78	0.01	0.25	0.75	0.25	1.20				
PaceRelationship.3n	0.69	0.10	0.12	0.63	0.37	1.11				
WarningSigns.3n	0.86	-0.11	0.31	0.81	0.19	1.29				
LearnedGrowingUp.3n	0.00	0.78	0.02	0.62	0.38	1.00				
PastRelationships.3n	-0.05	0.82	0.16	0.71	0.29	1.08				
GetAlongParents.3n	0.16	0.72	-0.16	0.64	0.36	1.19				
FriendshipsAreLike.3n	-0.14	0.96	-0.02	0.76	0.24	1.04				
Fights.3n	0.05	0.58	0.38	0.65	0.35	1.74				
FeelingsHurt.3n	0.20	0.48	0.32	0.61	0.39	2.14				
RightandWrong.3n	0.02	0.74	0.17	0.67	0.33	1.11				
SS loadings	4.62	4.06	0.79							
PA1	1.00	0.64	0.19							
PA2	0.64	1.00	0.27							
PA3	0.19	0.27	1.00							

Four Factors

% Called in the psych package psych::fa2latex % Called in the psych package Post.EFA.Results4c

Table 49: fa2latex

A factor analysis table fro	A factor analysis table from the psych package in R									
Variable	PA1	PA2	PA3	PA4	h2	u2	com			
Healthy_Rel.3n	0.76	0.02	0.13	0.04	0.62	0.38	1.06			
Communicate.3n	0.77	-0.06	-0.05	0.52	0.80	0.20	1.79			
ConflictManagement.3n	0.76	0.03	-0.08	0.22	0.65	0.35	1.20			
RightPartner.3n	0.85	-0.06	0.04	0.03	0.67	0.33	1.02			
LearnPartner.3n	0.74	0.05	0.28	0.16	0.74	0.26	1.39			
PaceRelationship.3n	0.67	0.14	0.29	-0.04	0.65	0.35	1.46			
WarningSigns.3n	0.84	-0.07	0.60	-0.04	0.90	0.10	1.83			
LearnedGrowingUp.3n	-0.01	0.79	-0.25	0.20	0.67	0.33	1.34			
PastRelationships.3n	-0.05	0.86	0.06	-0.02	0.71	0.29	1.02			
GetAlongParents.3n	0.17	0.76	-0.06	-0.21	0.67	0.33	1.28			
FriendshipsAreLike.3n	-0.12	0.99	-0.06	-0.12	0.76	0.24	1.07			
Fights.3n	0.03	0.63	0.18	0.17	0.65	0.35	1.31			
FeelingsHurt.3n	0.18	0.52	0.14	0.21	0.61	0.39	1.72			
RightandWrong.3n	0.01	0.79	0.12	-0.04	0.68	0.32	1.05			
SS loadings	4.29	4.3	0.64	0.56						
PA1	1.00	0.57	-0.04	0.04						
PA2	0.57	1.00	0.28	0.36						
PA3	-0.04	0.28	1.00	0.57						
PA4	0.04	0.36	0.57	1.00						

Five Factors

% Called in the psych package psych::fa2latex % Called in the psych package Post.EFA.Results5c

Table 50: fa2latex

A factor analysis table from	om the ps	sych pack	age in R					
Variable	PA1	PA2	PA5	PA3	PA4	h2	u2	com
Healthy_Rel.3n	0.77	0.03	0.05	0.01	-0.04	0.63	0.37	1.02
Communicate.3n	0.77	-0.07	0.01	0.19	0.28	0.78	0.22	1.42
ConflictManagement.3n	0.78	0.02	-0.09	0.03	0.14	0.67	0.33	1.10
RightPartner.3n	0.86	-0.04	0.02	-0.09	0.00	0.68	0.32	1.03
LearnPartner.3n	0.69	0.01	0.39	-0.03	0.13	0.80	0.20	1.69
PaceRelationship.3n	0.64	0.13	0.25	-0.02	-0.06	0.65	0.35	1.41
WarningSigns.3n	0.77	-0.07	0.49	0.05	-0.12	0.88	0.12	1.80
LearnedGrowingUp.3n	-0.01	0.74	-0.09	-0.02	0.38	0.72	0.28	1.54
PastRelationships.3n	-0.05	0.80	0.03	0.13	0.06	0.70	0.30	1.08
GetAlongParents.3n	0.18	0.73	0.00	-0.18	0.03	0.67	0.33	1.25
FriendshipsAreLike.3n	-0.12	0.93	-0.01	-0.03	0.08	0.76	0.24	1.05
Fights.3n	0.03	0.57	0.03	0.43	0.01	0.69	0.31	1.88
FeelingsHurt.3n	0.15	0.46	0.15	0.20	0.16	0.61	0.39	2.19
RightandWrong.3n	0.02	0.76	-0.05	0.29	-0.11	0.74	0.26	1.34
SS loadings	4.33	3.96	0.67	0.59	0.44			
PA1	1.00	0.60	0.20	0.22	0.13			
PA2	0.60	1.00	0.32	0.27	0.17			
PA5	0.20	0.32	1.00	0.45	0.27			
PA3	0.22	0.27	0.45	1.00	0.28			
PA4	0.13	0.17	0.27	0.28	1.00			

6 Confirmatory Factor Analysis (On Analytic Sample)

6.1 Categorical Retrospective Pre

6.1.1 Model Fit

lavaan (0.6-1) converged normally after 34 iterations

Ç ,			
	Used	Total	
Number of observations	115	134	
Estimator	DWLS	Robust	
Model Fit Test Statistic	45.149	84.208	
Degrees of freedom	71	71	
P-value (Chi-square)	0.993	0.135	
Scaling correction factor		0.798	
Shift parameter		27.622	
for simple second-order correction	(Mplus variant)		
Model test baseline model:			
Minimum Function Test Statistic	5549.287	2112.206	
Degrees of freedom	91	91	
P-value	0.000	0.000	
User model versus baseline model:			
Comparative Fit Index (CFI)	1.000	0.993	
Tucker-Lewis Index (TLI)	1.006	0.992	
Robust Comparative Fit Index (CFI)		NA	
Robust Tucker-Lewis Index (TLI)		NA	
Root Mean Square Error of Approximation	ı:		
RMSEA	0.000	0.040	
90 Percent Confidence Interval	0.000 0.000	0.000	0.071
P-value RMSEA <= 0.05	1.000	0.666	
Robust RMSEA		NA	
90 Percent Confidence Interval		0.000	NA
Chandandia d Dark Mann Common Daridual			

Standardized Root Mean Square Residual:

SRMR 0.064 0.064

Parameter Estimates:

Information Expected
Information saturated (h1) model Unstructured
Standard Errors Robust.sem

Latent Variables:

racent Agrianies.				
	Estimate	Std.Err	z-value	P(> z)
<pre>Healthy_Rel_Skills_Before =~</pre>				
<pre>Hlthy_Rl_Bfr.3</pre>	1.000			
Commnct_Bfr.3n	0.820	0.084	9.767	0.000
CnflctMngm_B.3	0.927	0.069	13.419	0.000
Partner_Selection_Before =~				
RghtPrtnr_Bf.3	1.000			
LrnPrtnr_Bfr.3	1.103	0.065	16.963	0.000
PcRltnshp_Bf.3	1.064	0.074	14.345	0.000
WrnngSgns_Bf.3	1.011	0.075	13.498	0.000
Past_Rel_Behav_Before =~				
LrndGrwngU_B.3	1.000			
PstRltnshp_B.3	0.883	0.060	14.721	0.000
<pre>GtAlngPrnt_B.3</pre>	1.002	0.054	18.698	0.000
FrndshpsAL_B.3	1.054	0.055	19.173	0.000
<pre>Rel_Behav_Attit_Before =~</pre>				
Fights_Befr.3n	1.000			
FlngsHrt_Bfr.3	1.134	0.092	12.308	0.000
RghtndWrng_B.3	1.092	0.101	10.769	0.000
Std.lv Std.all				
0.935 0.935				
0.767 0.767				
0.866 0.866				
0.871 0.871				
0.961 0.961				
0.927 0.927				
0.880 0.880				
0.872 0.872				
0.770 0.770				
0.873 0.873				
0.919 0.919				
0.726 0.726				
0.823 0.823				
0.793 0.793				

Covariances:

Estimate Std.Err z-value P(>|z|)

Healthy_Rel_Skills_Before ~~

Prtnr_S	_		0.6			.199 0.0	
Pst_Rl_	_		0.4			.996 0.0	
R1_Bhv_	_		0.4	138 0.	073 6	.021 0.0	000
-		n_Before ~					
Pst_Rl_	_		0.4			.293 0.0	
Rl_Bhv_	_		0.3	351 0.	076 4	.636 0.0	000
Past_Rel_		efore ~~					
Rl_Bhv_	_		0.5	599 0.	068 8	.836 0.0	000
Std.lv	Std.all						
0.799	0.799						
0.605	0.605						
0.645	0.645						
0.570	0.570						
0.555	0.555						
0.000	0.000						
0.947	0.947						
Intercepts:				_	- 4		
		Estimate	Std.Err	z-value	P(> z		Std.all
.Hlthy_R						0.000	0.000
.Commnct	_					0.000	0.000
.CnflctM	_					0.000	0.000
.RghtPrt						0.000	0.000
.LrnPrtn	_					0.000	0.000
.PcRltns		0.000				0.000	0.000
.WrnngSg		0.000				0.000	0.000
.LrndGrw	_					0.000	0.000
.PstRltn		0.000				0.000	0.000
.GtAlngP	_	0.000				0.000	0.000
.Frndshp		0.000				0.000	0.000
.Fights_		0.000				0.000	0.000
.FlngsHr	_	0.000				0.000	0.000
.RghtndW	U -	0.000				0.000	0.000
Hlthy_R		0.000				0.000	0.000
Prtnr_S	_	0.000				0.000	0.000
Pst_Rl_		0.000				0.000	0.000
Rl_Bhv_	Attt_Bf	0.000				0.000	0.000
Thresholds:							
		Estimate	Std.Err	z-value	P(> z) Std.lv	Std.all
Hlthy_R	1_B.3 1	0.345	0.120	2.872	0.00	4 0.345	0.345
	- D O O	4 = 40					4 540

8.262

1.763

8.320

2.872

8.262

0.000

0.078

0.000

0.004

0.000

1.712

0.209

1.624

0.345

1.712

1.712

0.209

1.624

0.345

1.712

0.207

0.118

0.195

0.120

0.207

1.712

0.209

1.624

0.345

1.712

Hlthy_Rl_B.3|2

Cmmnct_Bfr.3|1

Cmmnct_Bfr.3|2

CnflctMn_B.3|1

CnflctMn_B.3|2

Deb+De+n D 211						
RghtPrtn_B.3 1	0.723	0.129	5.595	0.000	0.723	0.723
RghtPrtn_B.3 2	2.378	0.369	6.451	0.000	2.378	2.378
LrnPrtnr_B.3 1	0.487	0.123	3.975	0.000	0.487	0.487
LrnPrtnr_B.3 2	2.111	0.285	7.411	0.000	2.111	2.111
PcRltnsh_B.3 1	0.588	0.125	4.702	0.000	0.588	0.588
PcRltnsh_B.3 2	1.942	0.246	7.877	0.000	1.942	1.942
WrnngSgn_B.3 1	0.368	0.120	3.057	0.002	0.368	0.368
WrnngSgn_B.3 2	1.942	0.246	7.877	0.000	1.942	1.942
LrndGrwU_B.3 1	0.120	0.118	1.021	0.307	0.120	0.120
LrndGrwU_B.3 2	1.257	0.158	7.948	0.000	1.257	1.257
PstRltns_B.3 1	0.098	0.118	0.835	0.403	0.098	0.098
PstRltns_B.3 2	1.124	0.149	7.558	0.000	1.124	1.124
GtAlngPr_B.3 1	0.055	0.117	0.464	0.643	0.055	0.055
GtAlngPr_B.3 2	0.811	0.133	6.118	0.000	0.811	0.811
FrndshAL_B.3 1	0.055	0.117	0.464	0.643	0.055	0.055
FrndshAL_B.3 2	0.905	0.137	6.626	0.000	0.905	0.905
Fghts_Bfr.3n 1	-0.120	0.118	-1.021	0.307	-0.120	-0.120
Fghts_Bfr.3n 2	0.873	0.135	6.459	0.000	0.873	0.873
FlngsHrt_B.3 1	-0.209	0.118	-1.763	0.078	-0.209	-0.209
FlngsHrt_B.3 2	1.046	0.144	7.264	0.000	1.046	1.046
RghtndWr_B.3 1	-0.368	0.120	-3.057	0.002	-0.368	-0.368
RghtndWr_B.3 2	0.842	0.134	6.289	0.000	0.842	0.842
Variances:						
	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
.Hlthy_Rl_Bfr.3	0.126				0.126	0.126
.Commnct_Bfr.3n	0.412				0.412	0.412
$.CnflctMngm_B.3$	0.250				0.250	0.250
					0.200	
.RghtPrtnr_Bf.3	0.241				0.241	0.241
.RghtPrtnr_Bf.3 .LrnPrtnr_Bfr.3	0.241 0.077					0.241 0.077
-					0.241	
.LrnPrtnr_Bfr.3	0.077				0.241 0.077	0.077
.LrnPrtnr_Bfr.3 .PcRltnshp_Bf.3 .WrnngSgns_Bf.3 .LrndGrwngU_B.3	0.077 0.141				0.241 0.077 0.141	0.077 0.141
.LrnPrtnr_Bfr.3 .PcRltnshp_Bf.3 .WrnngSgns_Bf.3	0.077 0.141 0.225				0.241 0.077 0.141 0.225	0.077 0.141 0.225
.LrnPrtnr_Bfr.3 .PcRltnshp_Bf.3 .WrnngSgns_Bf.3 .LrndGrwngU_B.3	0.077 0.141 0.225 0.239				0.241 0.077 0.141 0.225 0.239	0.077 0.141 0.225 0.239
.LrnPrtnr_Bfr.3 .PcRltnshp_Bf.3 .WrnngSgns_Bf.3 .LrndGrwngU_B.3 .PstRltnshp_B.3	0.077 0.141 0.225 0.239 0.408				0.241 0.077 0.141 0.225 0.239 0.408	0.077 0.141 0.225 0.239 0.408
.LrnPrtnr_Bfr.3 .PcRltnshp_Bf.3 .WrnngSgns_Bf.3 .LrndGrwngU_B.3 .PstRltnshp_B.3 .GtAlngPrnt_B.3	0.077 0.141 0.225 0.239 0.408 0.237				0.241 0.077 0.141 0.225 0.239 0.408 0.237	0.077 0.141 0.225 0.239 0.408 0.237
.LrnPrtnr_Bfr.3 .PcRltnshp_Bf.3 .WrnngSgns_Bf.3 .LrndGrwngU_B.3 .PstRltnshp_B.3 .GtAlngPrnt_B.3 .FrndshpsAL_B.3	0.077 0.141 0.225 0.239 0.408 0.237 0.155				0.241 0.077 0.141 0.225 0.239 0.408 0.237 0.155	0.077 0.141 0.225 0.239 0.408 0.237 0.155
.LrnPrtnr_Bfr.3 .PcRltnshp_Bf.3 .WrnngSgns_Bf.3 .LrndGrwngU_B.3 .PstRltnshp_B.3 .GtAlngPrnt_B.3 .FrndshpsAL_B.3 .Fights_Befr.3n	0.077 0.141 0.225 0.239 0.408 0.237 0.155 0.473				0.241 0.077 0.141 0.225 0.239 0.408 0.237 0.155 0.473	0.077 0.141 0.225 0.239 0.408 0.237 0.155 0.473
.LrnPrtnr_Bfr.3 .PcRltnshp_Bf.3 .WrnngSgns_Bf.3 .LrndGrwngU_B.3 .PstRltnshp_B.3 .GtAlngPrnt_B.3 .FrndshpsAL_B.3 .Fights_Befr.3n .FlngsHrt_Bfr.3	0.077 0.141 0.225 0.239 0.408 0.237 0.155 0.473 0.322	0.084	10.350	0.000	0.241 0.077 0.141 0.225 0.239 0.408 0.237 0.155 0.473	0.077 0.141 0.225 0.239 0.408 0.237 0.155 0.473 0.322
.LrnPrtnr_Bfr.3 .PcRltnshp_Bf.3 .WrnngSgns_Bf.3 .LrndGrwngU_B.3 .PstRltnshp_B.3 .GtAlngPrnt_B.3 .FrndshpsAL_B.3 .Fights_Befr.3n .FlngsHrt_Bfr.3 .RghtndWrng_B.3	0.077 0.141 0.225 0.239 0.408 0.237 0.155 0.473 0.322 0.372	0.084 0.074	10.350 10.233	0.000	0.241 0.077 0.141 0.225 0.239 0.408 0.237 0.155 0.473 0.322 0.372	0.077 0.141 0.225 0.239 0.408 0.237 0.155 0.473 0.322 0.372
.LrnPrtnr_Bfr.3 .PcRltnshp_Bf.3 .WrnngSgns_Bf.3 .LrndGrwngU_B.3 .PstRltnshp_B.3 .GtAlngPrnt_B.3 .FrndshpsAL_B.3 .Fights_Befr.3n .FlngsHrt_Bfr.3 .RghtndWrng_B.3 Hlthy_Rl_Skl_B	0.077 0.141 0.225 0.239 0.408 0.237 0.155 0.473 0.322 0.372 0.874				0.241 0.077 0.141 0.225 0.239 0.408 0.237 0.155 0.473 0.322 0.372 1.000	0.077 0.141 0.225 0.239 0.408 0.237 0.155 0.473 0.322 0.372 1.000
.LrnPrtnr_Bfr.3 .PcRltnshp_Bf.3 .WrnngSgns_Bf.3 .LrndGrwngU_B.3 .PstRltnshp_B.3 .GtAlngPrnt_B.3 .FrndshpsAL_B.3 .Fights_Befr.3n .FlngsHrt_Bfr.3 .RghtndWrng_B.3 Hlthy_Rl_Skl_B Prtnr_Slctn_Bf	0.077 0.141 0.225 0.239 0.408 0.237 0.155 0.473 0.322 0.372 0.874 0.759	0.074	10.233	0.000	0.241 0.077 0.141 0.225 0.239 0.408 0.237 0.155 0.473 0.322 0.372 1.000	0.077 0.141 0.225 0.239 0.408 0.237 0.155 0.473 0.322 0.372 1.000
.LrnPrtnr_Bfr.3 .PcRltnshp_Bf.3 .WrnngSgns_Bf.3 .LrndGrwngU_B.3 .PstRltnshp_B.3 .GtAlngPrnt_B.3 .FrndshpsAL_B.3 .Fights_Befr.3n .FlngsHrt_Bfr.3 .RghtndWrng_B.3 Hlthy_Rl_Skl_B Prtnr_Slctn_Bf Pst_Rl_Bhv_Bfr	0.077 0.141 0.225 0.239 0.408 0.237 0.155 0.473 0.322 0.372 0.874 0.759 0.761	0.074 0.066	10.233 11.519	0.000	0.241 0.077 0.141 0.225 0.239 0.408 0.237 0.155 0.473 0.322 0.372 1.000 1.000	0.077 0.141 0.225 0.239 0.408 0.237 0.155 0.473 0.322 0.372 1.000 1.000
.LrnPrtnr_Bfr.3 .PcRltnshp_Bf.3 .WrnngSgns_Bf.3 .LrndGrwngU_B.3 .PstRltnshp_B.3 .GtAlngPrnt_B.3 .FrndshpsAL_B.3 .Fights_Befr.3n .FlngsHrt_Bfr.3 .RghtndWrng_B.3 Hlthy_Rl_Skl_B Prtnr_Slctn_Bf Pst_Rl_Bhv_Bfr	0.077 0.141 0.225 0.239 0.408 0.237 0.155 0.473 0.322 0.372 0.874 0.759 0.761 0.527	0.074 0.066 0.088	10.233 11.519 5.960	0.000 0.000 0.000	0.241 0.077 0.141 0.225 0.239 0.408 0.237 0.155 0.473 0.322 0.372 1.000 1.000	0.077 0.141 0.225 0.239 0.408 0.237 0.155 0.473 0.322 0.372 1.000 1.000
.LrnPrtnr_Bfr.3 .PcRltnshp_Bf.3 .WrnngSgns_Bf.3 .LrndGrwngU_B.3 .PstRltnshp_B.3 .GtAlngPrnt_B.3 .FrndshpsAL_B.3 .Fights_Befr.3n .FlngsHrt_Bfr.3 .RghtndWrng_B.3 .Hlthy_Rl_Skl_B .Prtnr_Slctn_Bf .Pst_Rl_Bhv_Bfr .Rl_Bhv_Attt_Bf Scales y*:	0.077 0.141 0.225 0.239 0.408 0.237 0.155 0.473 0.322 0.372 0.874 0.759 0.761 0.527	0.074 0.066	10.233 11.519	0.000	0.241 0.077 0.141 0.225 0.239 0.408 0.237 0.155 0.473 0.322 0.372 1.000 1.000 1.000	0.077 0.141 0.225 0.239 0.408 0.237 0.155 0.473 0.322 1.000 1.000 1.000
.LrnPrtnr_Bfr.3 .PcRltnshp_Bf.3 .WrnngSgns_Bf.3 .LrndGrwngU_B.3 .PstRltnshp_B.3 .GtAlngPrnt_B.3 .FrndshpsAL_B.3 .Fights_Befr.3n .FlngsHrt_Bfr.3 .RghtndWrng_B.3 .Hlthy_Rl_Skl_B .Prtnr_Slctn_Bf .Pst_Rl_Bhv_Bfr .Rl_Bhv_Attt_Bf Scales y*: Hlthy_Rl_Bfr.3	0.077 0.141 0.225 0.239 0.408 0.237 0.155 0.473 0.322 0.372 0.874 0.759 0.761 0.527	0.074 0.066 0.088	10.233 11.519 5.960	0.000 0.000 0.000	0.241 0.077 0.141 0.225 0.239 0.408 0.237 0.155 0.473 0.322 1.000 1.000 1.000	0.077 0.141 0.225 0.239 0.408 0.237 0.155 0.473 0.322 0.372 1.000 1.000 1.000
.LrnPrtnr_Bfr.3 .PcRltnshp_Bf.3 .WrnngSgns_Bf.3 .LrndGrwngU_B.3 .PstRltnshp_B.3 .GtAlngPrnt_B.3 .FrndshpsAL_B.3 .Fights_Befr.3n .FlngsHrt_Bfr.3 .RghtndWrng_B.3 .Hlthy_Rl_Skl_B .Prtnr_Slctn_Bf .Pst_Rl_Bhv_Bfr .Rl_Bhv_Attt_Bf Scales y*:	0.077 0.141 0.225 0.239 0.408 0.237 0.155 0.473 0.322 0.372 0.874 0.759 0.761 0.527	0.074 0.066 0.088	10.233 11.519 5.960	0.000 0.000 0.000	0.241 0.077 0.141 0.225 0.239 0.408 0.237 0.155 0.473 0.322 0.372 1.000 1.000 1.000	0.077 0.141 0.225 0.239 0.408 0.237 0.155 0.473 0.322 1.000 1.000 1.000

CnflctMngm_B.3	1.000	1.000	1.000
RghtPrtnr_Bf.3	1.000	1.000	1.000
LrnPrtnr_Bfr.3	1.000	1.000	1.000
PcRltnshp_Bf.3	1.000	1.000	1.000
WrnngSgns_Bf.3	1.000	1.000	1.000
LrndGrwngU_B.3	1.000	1.000	1.000
PstRltnshp_B.3	1.000	1.000	1.000
<pre>GtAlngPrnt_B.3</pre>	1.000	1.000	1.000
FrndshpsAL_B.3	1.000	1.000	1.000
Fights_Befr.3n	1.000	1.000	1.000
FlngsHrt_Bfr.3	1.000	1.000	1.000
RghtndWrng_B.3	1.000	1.000	1.000

6.1.2 Modification Indices

[1] lhs op rhs mi epc sepc.lv sepc.all sepc.nox <0 rows> (or 0-length row.names)

6.1.3 Two Factor Solution

 ${\tt Information}$

Standard Errors

Information saturated (h1) model

		Used		
Number of observations		115	134	
Estimator		DWLS	Robust	
Model Fit Test Statistic		72.401		
Degrees of freedom		76	76	
P-value (Chi-square)		0.596	0.009	
<u>-</u>		0.590	0.009	
Scaling correction factor				
Shift parameter	(M 7		33.002	
for simple second-order correction	(Mpius va	riant)		
Model test baseline model:				
Minimum Function Test Statistic	55	49.287	2112.206	
Degrees of freedom	00	91	91	
P-value		0.000		
r-value		0.000	0.000	
User model versus baseline model:				
Comparative Fit Index (CFI)		1.000	0.984	
Tucker-Lewis Index (TLI)		1.001	0.981	
,				
Robust Comparative Fit Index (CFI)			NA	
Robust Tucker-Lewis Index (TLI)			NA	
Root Mean Square Error of Approximation	1:			
RMSEA		0.000	0.061	
90 Percent Confidence Interval	0.000			0.086
P-value RMSEA <= 0.05	0.000	0.959	0.244	0.000
1 Value Imban V 0.00		0.505	0.211	
Robust RMSEA			NA	
90 Percent Confidence Interval			NA	NA
Standardized Root Mean Square Residual:	·			
SRMR		0.077	0.077	
Parameter Estimates:				

Expected

Unstructured

Robust.sem

g: : : : : : : : : : : : : : : : : : :		2001222		- (* 1–1)	202121
Skills_and_Partner_Sel =~	4 000				0 005
Hlthy_Rl_Bfr.3	1.000	0.000	40.004	0.000	0.865
Commnct_Bfr.3n	0.837	0.082	10.264	0.000	0.724
CnflctMngm_B.3	0.938	0.066	14.256	0.000	0.811
RghtPrtnr_Bf.3	0.993	0.072	13.801	0.000	0.859
LrnPrtnr_Bfr.3	1.066	0.058	18.431	0.000	0.922
PcRltnshp_Bf.3	1.042	0.060	17.311	0.000	0.902
WrnngSgns_Bf.3	0.982	0.065	15.220	0.000	0.849
Behav_Attit_Patterns =~					
LrndGrwngU_B.3	1.000				0.864
PstRltnshp_B.3	0.881	0.060	14.772	0.000	0.762
<pre>GtAlngPrnt_B.3</pre>	1.004	0.054	18.714	0.000	0.868
FrndshpsAL_B.3	1.058	0.054	19.424	0.000	0.914
${ t Fights_Befr.3n}$	0.824	0.070	11.722	0.000	0.712
FlngsHrt_Bfr.3	0.929	0.059	15.711	0.000	0.802
RghtndWrng_B.3	0.899	0.060	14.959	0.000	0.777
Std.all					
0.865					
0.724					
0.811					
0.859					
0.922					
0.902					
0.849					
0.864					
0.762					
0.868					
0.914					
0.712					
0.802					
0.777					
Covariances:					
	Estimate	Std.Err	z-value	P(> z)	Std.lv
Skills_and_Partner_Sel ~~					
Bhv_Attt_Pttrn	0.468	0.067	6.997	0.000	0.626
Std.all					

Estimate Std.Err z-value P(>|z|) Std.lv

0.626

Intercepts:

Estimate Std.Err z-value P(>|z|) Std.lv Std.all .Hlthy_Rl_Bfr.3 0.000 0.000

.Commnct_Bfr.3n	0.000				0.000	0.000
.CnflctMngm_B.3	0.000				0.000	0.000
.RghtPrtnr_Bf.3	0.000				0.000	0.000
.LrnPrtnr_Bfr.3	0.000				0.000	0.000
.PcRltnshp_Bf.3	0.000				0.000	0.000
.WrnngSgns_Bf.3	0.000				0.000	0.000
.LrndGrwngU_B.3	0.000				0.000	0.000
.PstRltnshp_B.3	0.000				0.000	0.000
.GtAlngPrnt_B.3	0.000				0.000	0.000
.FrndshpsAL_B.3	0.000				0.000	0.000
.Fights_Befr.3n	0.000				0.000	0.000
.FlngsHrt_Bfr.3	0.000				0.000	0.000
.RghtndWrng_B.3	0.000				0.000	0.000
Sklls_nd_Prt_S	0.000				0.000	0.000
Bhv_Attt_Pttrn	0.000				0.000	0.000
Thresholds:						
	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
Hlthy_Rl_B.3 1	0.345	0.120	2.872	0.004	0.345	0.345
Hlthy_Rl_B.3 2	1.712	0.207	8.262	0.000	1.712	1.712
Cmmnct_Bfr.3 1			0.202	0.000	1./12	1./12
O	0.209	0.118	1.763	0.000	0.209	0.209
Cmmnct_Bfr.3 2	0.209 1.624	0.118 0.195				
-			1.763	0.078	0.209	0.209
Cmmnct_Bfr.3 2	1.624	0.195	1.763 8.320	0.078 0.000	0.209 1.624	0.209 1.624
Cmmnct_Bfr.3 2 CnflctMn_B.3 1	1.624 0.345	0.195 0.120	1.763 8.320 2.872	0.078 0.000 0.004	0.209 1.624 0.345	0.209 1.624 0.345
Cmmnct_Bfr.3 2 CnflctMn_B.3 1 CnflctMn_B.3 2	1.624 0.345 1.712	0.195 0.120 0.207	1.763 8.320 2.872 8.262	0.078 0.000 0.004 0.000	0.209 1.624 0.345 1.712	0.209 1.624 0.345 1.712
Cmmnct_Bfr.3 2 CnflctMn_B.3 1 CnflctMn_B.3 2 RghtPrtn_B.3 1	1.624 0.345 1.712 0.723	0.195 0.120 0.207 0.129	1.763 8.320 2.872 8.262 5.595	0.078 0.000 0.004 0.000 0.000	0.209 1.624 0.345 1.712 0.723	0.209 1.624 0.345 1.712 0.723
Cmmnct_Bfr.3 2 CnflctMn_B.3 1 CnflctMn_B.3 2 RghtPrtn_B.3 1 RghtPrtn_B.3 2	1.624 0.345 1.712 0.723 2.378	0.195 0.120 0.207 0.129 0.369	1.763 8.320 2.872 8.262 5.595 6.451	0.078 0.000 0.004 0.000 0.000	0.209 1.624 0.345 1.712 0.723 2.378	0.209 1.624 0.345 1.712 0.723 2.378
Cmmnct_Bfr.3 2 CnflctMn_B.3 1 CnflctMn_B.3 2 RghtPrtn_B.3 1 RghtPrtn_B.3 2 LrnPrtnr_B.3 1	1.624 0.345 1.712 0.723 2.378 0.487	0.195 0.120 0.207 0.129 0.369 0.123	1.763 8.320 2.872 8.262 5.595 6.451 3.975	0.078 0.000 0.004 0.000 0.000 0.000	0.209 1.624 0.345 1.712 0.723 2.378 0.487	0.209 1.624 0.345 1.712 0.723 2.378 0.487

Variances:

WrnngSgn_B.3|1

WrnngSgn_B.3|2

LrndGrwU_B.3|1

LrndGrwU_B.3|2

PstRltns_B.3|1

PstRltns_B.3|2

GtAlngPr_B.3|1

GtAlngPr_B.3|2

FrndshAL_B.3|1

FrndshAL_B.3|2

Fghts_Bfr.3n|1

Fghts_Bfr.3n|2

FlngsHrt_B.3|1

FlngsHrt_B.3|2

RghtndWr_B.3|1

RghtndWr_B.3|2

0.368

1.942

0.120

1.257

0.098

1.124

0.055

0.811

0.055

0.905

-0.120

-0.209

1.046

-0.368

0.842

0.873

0.120

0.246

0.118

0.158

0.118

0.149

0.117

0.133

0.117

0.137

0.118

0.135

0.118

0.144

0.120

0.134

3.057

7.877

1.021

7.948

0.835

7.558

0.464

6.118

0.464

6.626

-1.021

6.459

-1.763

7.264

-3.057

6.289

0.002

0.000

0.307

0.000

0.403

0.000

0.643

0.000

0.643

0.000

0.307

0.000

0.078

0.000

0.002

0.000

0.368

1.942

0.120

1.257

0.098

1.124

0.055

0.811

0.055

0.905

-0.120

0.873

-0.209

1.046

-0.368

0.842

0.368

1.942

0.120

1.257

0.098

1.124

0.055

0.811

0.055

0.905

-0.120

0.873

-0.209

1.046

-0.368

0.842

Hlthy_Rl_Bfr.3		Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all	
CnflctMngm_B.3	.Hlthy_Rl_Bfr.3	0.252				0.252	0.252	
RightPrtnr_Bfr.3 0.262 0.262 0.262	.Commnct_Bfr.3n	0.475				0.475	0.475	
LrnPrtnr_Bfr.3	.CnflctMngm_B.3	0.341				0.341	0.341	
PcRltnshp_Bf.3	.RghtPrtnr_Bf.3	0.262				0.262	0.262	
.WrnngSgns_Bf.3 0.279 0.279 .LrndGrwngU_B.3 0.253 0.253 .PstRltnshp_B.3 0.420 0.420 .GtAlngPrnt_B.3 0.247 0.247 .FrndshpsAL_B.3 0.165 0.165 .Fights_Befr.3n 0.493 0.493 .FlngsHrt_Bfr.3 0.356 0.356 .RghtndWrng_B.3 0.397 0.397 Sklls_nd_Prt_S 0.748 0.075 10.041 0.000 1.000 Bhv_Attt_Pttrn 0.747 0.066 11.358 0.000 1.000 1.000 Scales y*: Estimate Std.Err z-value P(> z) Std.lv Std.all Hlthy_Rl_Bfr.3 1.000 1.000 1.000 1.000 Commnct_Bfr.3n 1.000 1.000 1.000 1.000 RghtPrtnr_Bfr.3 1.000 1.000 1.000 1.000 LrnPrtng_Bfr.3 1.000 1.000 1.000 1.000 PcRltnshp_Bf.3 1.000 1.000 1.000 1.000 LrndGrwngU_B.3 1.000 1.000	.LrnPrtnr_Bfr.3	0.150				0.150	0.150	
LrndGrwngU_B.3	.PcRltnshp_Bf.3	0.187				0.187	0.187	
PstRltnshp_B.3	.WrnngSgns_Bf.3	0.279				0.279	0.279	
GtAlngPrnt_B.3	$. LrndGrwngU_B.3$	0.253				0.253	0.253	
.FrndshpsAL_B.3 0.165 0.165 0.165 0.165 0.493 0.356 0.356 0.356 0.356 0.356 0.397	$.PstRltnshp_B.3$	0.420				0.420	0.420	
Rights_Befr.3n	.GtAlngPrnt_B.3	0.247				0.247	0.247	
.FlngsHrt_Bfr.3 0.356 0.356 0.356 0.397	$. {\tt FrndshpsAL_B.3}$	0.165				0.165	0.165	
.RghtndWrng_B.3 0.397 0.397 0.397 Sklls_nd_Prt_S 0.748 0.075 10.041 0.000 1.000 1.000 Bhv_Attt_Pttrn 0.747 0.066 11.358 0.000 1.000 1.000 Scales y*: Estimate Std.Err z-value P(> z) Std.lv Std.all Hlthy_Rl_Bfr.3 1.000 1.000 1.000 1.000 1.000 Commnct_Bfr.3n 1.000 1.000 1.000 1.000 1.000 1.000 CnflctMngm_B.3 1.000	.Fights_Befr.3n	0.493				0.493	0.493	
Sklls_nd_Prt_S 0.748 0.075 10.041 0.000 1.000 1.000 Bhv_Attt_Pttrn 0.747 0.066 11.358 0.000 1.000 1.000 Scales y*: Estimate Std.Err z-value P(> z) Std.lv Std.all Hithy_Rl_Bfr.3 1.000 1.000 1.000 1.000 Commnct_Bfr.3n 1.000 1.000 1.000 1.000 CnflctMngm_B.3 1.000 1.000 1.000 1.000 RghtPrtnr_Bfr.3 1.000 1.000 1.000 1.000 LrnPrtnr_Bfr.3 1.000 1.000 1.000 1.000 WrnngSgns_Bf.3 1.000 1.000 1.000 1.000 WrnngSgns_Bf.3 1.000 1.000 1.000 1.000 PstRltnshp_B.3 1.000 1.000 1.000 1.000 GtAlngPrnt_B.3 1.000 1.000 1.000 1.000 <td colspan<="" td=""><td>$. {\tt FlngsHrt_Bfr.3}$</td><td>0.356</td><td></td><td></td><td></td><td>0.356</td><td>0.356</td></td>	<td>$. {\tt FlngsHrt_Bfr.3}$</td> <td>0.356</td> <td></td> <td></td> <td></td> <td>0.356</td> <td>0.356</td>	$. {\tt FlngsHrt_Bfr.3}$	0.356				0.356	0.356
Bhv_Attt_Pttrn	$. {\tt RghtndWrng_B.3}$	0.397				0.397	0.397	
Scales y*: Estimate Std.Err z-value P(> z) Std.lv Std.all Hlthy_Rl_Bfr.3 1.000 1.000 1.000 1.000 Commnct_Bfr.3n 1.000 1.000 1.000 1.000 CnflctMngm_B.3 1.000 1.000 1.000 1.000 RghtPrtnr_Bfr.3 1.000 1.000 1.000 1.000 LrnPrtnr_Bfr.3 1.000 1.000 1.000 1.000 PcRltnshp_Bf.3 1.000 1.000 1.000 1.000 LrndGrwngU_B.3 1.000 1.000 1.000 1.000 PstRltnshp_B.3 1.000 1.000 1.000 1.000 GtAlngPrnt_B.3 1.000 1.000 1.000 1.000 FrndshpsAL_B.3 1.000 1.000 1.000 1.000 Fights_Befr.3n 1.000 1.000 1.000 1.000 FlngsHrt_Bfr.3 1.000 1.000 1.000 1.000	Sklls_nd_Prt_S	0.748	0.075	10.041	0.000	1.000	1.000	
Estimate Std.Err z-value P(> z) Std.lv Std.all	Bhv_Attt_Pttrn	0.747	0.066	11.358	0.000	1.000	1.000	
Estimate Std.Err z-value P(> z) Std.lv Std.all								
Hlthy_Rl_Bfr.3 1.000 1.000 Commnct_Bfr.3n 1.000 1.000 CnflctMngm_B.3 1.000 1.000 RghtPrtnr_Bf.3 1.000 1.000 LrnPrtnr_Bfr.3 1.000 1.000 PcRltnshp_Bf.3 1.000 1.000 WrnngSgns_Bf.3 1.000 1.000 LrndGrwngU_B.3 1.000 1.000 PstRltnshp_B.3 1.000 1.000 CfAlngPrnt_B.3 1.000 1.000 FrdshpsAL_B.3 1.000 1.000 Frights_Befr.3n 1.000 1.000 Fights_Befr.3n 1.000 1.000 FlngsHrt_Bfr.3 1.000 1.000	Scales y*:	-	a	_	5611	a	a. 1	
Commnct_Bfr.3n 1.000 1.000 1.000 CnflctMngm_B.3 1.000 1.000 1.000 RghtPrtnr_Bf.3 1.000 1.000 1.000 LrnPrtnr_Bfr.3 1.000 1.000 1.000 PcRltnshp_Bf.3 1.000 1.000 1.000 WrnngSgns_Bf.3 1.000 1.000 1.000 LrndGrwngU_B.3 1.000 1.000 1.000 PstRltnshp_B.3 1.000 1.000 1.000 GtAlngPrnt_B.3 1.000 1.000 1.000 FrndshpsAL_B.3 1.000 1.000 1.000 Fights_Befr.3n 1.000 1.000 1.000 FlngsHrt_Bfr.3 1.000 1.000 1.000	W1.1 D1 D4 O		Std.Err	z-value	P(> z)			
CnflctMngm_B.3 1.000 1.000 1.000 RghtPrtnr_Bf.3 1.000 1.000 1.000 LrnPrtnr_Bfr.3 1.000 1.000 1.000 PcRltnshp_Bf.3 1.000 1.000 1.000 WrnngSgns_Bf.3 1.000 1.000 1.000 LrndGrwngU_B.3 1.000 1.000 1.000 PstRltnshp_B.3 1.000 1.000 1.000 GtAlngPrnt_B.3 1.000 1.000 1.000 FrndshpsAL_B.3 1.000 1.000 1.000 Fights_Befr.3n 1.000 1.000 1.000 FlngsHrt_Bfr.3 1.000 1.000 1.000	• = =							
RghtPrtnr_Bf.3 1.000 1.000 1.000 LrnPrtnr_Bfr.3 1.000 1.000 1.000 PcRltnshp_Bf.3 1.000 1.000 1.000 WrnngSgns_Bf.3 1.000 1.000 1.000 LrndGrwngU_B.3 1.000 1.000 1.000 PstRltnshp_B.3 1.000 1.000 1.000 GtAlngPrnt_B.3 1.000 1.000 1.000 FrndshpsAL_B.3 1.000 1.000 1.000 Fights_Befr.3n 1.000 1.000 1.000 FlngsHrt_Bfr.3 1.000 1.000 1.000	-							
LrnPrtnr_Bfr.3 1.000 1.000 1.000 PcRltnshp_Bf.3 1.000 1.000 1.000 WrnngSgns_Bf.3 1.000 1.000 1.000 LrndGrwngU_B.3 1.000 1.000 1.000 PstRltnshp_B.3 1.000 1.000 1.000 GtAlngPrnt_B.3 1.000 1.000 1.000 FrndshpsAL_B.3 1.000 1.000 1.000 Fights_Befr.3n 1.000 1.000 1.000 FlngsHrt_Bfr.3 1.000 1.000 1.000	_							
PcRltnshp_Bf.3 1.000 1.000 1.000 WrnngSgns_Bf.3 1.000 1.000 1.000 LrndGrwngU_B.3 1.000 1.000 1.000 PstRltnshp_B.3 1.000 1.000 1.000 GtAlngPrnt_B.3 1.000 1.000 1.000 FrndshpsAL_B.3 1.000 1.000 1.000 Fights_Befr.3n 1.000 1.000 1.000 FlngsHrt_Bfr.3 1.000 1.000 1.000	_							
WrnngSgns_Bf.3 1.000 1.000 1.000 LrndGrwngU_B.3 1.000 1.000 1.000 PstRltnshp_B.3 1.000 1.000 1.000 GtAlngPrnt_B.3 1.000 1.000 1.000 FrndshpsAL_B.3 1.000 1.000 1.000 Fights_Befr.3n 1.000 1.000 1.000 FlngsHrt_Bfr.3 1.000 1.000 1.000	-							
LrndGrwngU_B.3 1.000 1.000 1.000 PstRltnshp_B.3 1.000 1.000 1.000 GtAlngPrnt_B.3 1.000 1.000 1.000 FrndshpsAL_B.3 1.000 1.000 1.000 Fights_Befr.3n 1.000 1.000 1.000 FlngsHrt_Bfr.3 1.000 1.000 1.000	• =							
PstRltnshp_B.3 1.000 1.000 1.000 GtAlngPrnt_B.3 1.000 1.000 1.000 FrndshpsAL_B.3 1.000 1.000 1.000 Fights_Befr.3n 1.000 1.000 1.000 FlngsHrt_Bfr.3 1.000 1.000 1.000	0							
GtAlngPrnt_B.3 1.000 1.000 1.000 FrndshpsAL_B.3 1.000 1.000 1.000 Fights_Befr.3n 1.000 1.000 1.000 FlngsHrt_Bfr.3 1.000 1.000 1.000	_							
FrndshpsAL_B.3 1.000 1.000 1.000 Fights_Befr.3n 1.000 1.000 1.000 FlngsHrt_Bfr.3 1.000 1.000 1.000	• =							
Fights_Befr.3n 1.000 1.000 1.000 FlngsHrt_Bfr.3 1.000 1.000 1.000	• -							
FlngsHrt_Bfr.3 1.000 1.000 1.000	-							
-								
Rghtndwrng_B.3 1.000 1.000 1.000	• -	1.000				1.000	1.000	
	D	4 000				4 000	4 000	

6.1.4 Modification Indices

lhs op rhs mi epc
1 Behav_Attit_Patterns =~ Healthy_Rel_Before.3n 11.28882 0.3500178
 sepc.lv sepc.all sepc.nox
1 0.3024521 0.3024521 0.3024521

${\bf 6.2}\quad {\bf Categorical\ Retrospective\ Post}$

6.2.1 Model Fit

lavaan	(0.6-1)	converged	normally	after	50	iterations
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	Us	sed	Total	
Number of observations	:	124	134	
Estimator	D/	WLS	Robust	
Model Fit Test Statistic	67.8	362	128.326	
Degrees of freedom		71	71	
P-value (Chi-square)	0.8	584	0.000	
Scaling correction factor			0.725	
Shift parameter			34.759	
for simple second-order correction	(Mplus varia	nt)		
Model test baseline model:				
Minimum Function Test Statistic	15991.6	338	3632.575	
Degrees of freedom	10001.	91	91	
P-value	0 (000	0.000	
1 value	0.0	300	0.000	
User model versus baseline model:				
Comparative Fit Index (CFI)	1 (000	0.984	
Tucker-Lewis Index (TLI)		000	0.979	
ruonoi howib indox (ihi)	1.		0.010	
Robust Comparative Fit Index (CFI)			NA	
Robust Tucker-Lewis Index (TLI)			NA	
Root Mean Square Error of Approximation	ı :			
RMSEA	0.0	000	0.081	
90 Percent Confidence Interval		048	0.058	0.103
P-value RMSEA <= 0.05		961	0.016	0.100
3				
Robust RMSEA			NA	
90 Percent Confidence Interval			NA	NA
Standardized Root Mean Square Residual:				

Parameter Estimates:

SRMR

Information Expected

0.054 0.054

Latent Variables.						
	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
HRS.post =~						
Healthy_Rel.3n	1.000				0.854	0.854
Communicate.3n	1.056	0.035	30.177	0.000	0.902	0.902
CnflctMngmnt.3	1.000	0.046	21.618	0.000	0.854	0.854
PS.post =~						
RightPartnr.3n	1.000				0.831	0.831
LearnPartnr.3n	1.141	0.048	23.652	0.000	0.948	0.948
PaceRltnshp.3n	1.107	0.047	23.775	0.000	0.920	0.920
WarningSgns.3n	1.177	0.050	23.667	0.000	0.979	0.979
PRB.post =~						
${\tt LrndGrwngUp.3n}$	1.000				0.831	0.831
PstRltnshps.3n	1.122	0.053	21.335	0.000	0.933	0.933
GtAlngPrnts.3n	1.059	0.056	18.760	0.000	0.881	0.881
FrndshpsArLk.3	1.103	0.053	20.876	0.000	0.917	0.917
RBA.post =~						
Fights.3n	1.000				0.858	0.858
FeelingsHrt.3n	1.023	0.043	23.554	0.000	0.877	0.877
RightndWrng.3n	1.068	0.046	23.462	0.000	0.916	0.916
Covariances:						
	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
HRS.post ~~						
PS.post	0.696	0.052	13.428	0.000	0.980	0.980
PRB.post	0.498	0.071	7.039	0.000	0.701	0.701
RBA.post	0.601	0.062	9.711	0.000	0.821	0.821
PS.post ~~						
PRB.post	0.508	0.065	7.846	0.000	0.735	0.735
RBA.post	0.609	0.055	11.067	0.000	0.854	0.854
PRB.post ~~						
RBA.post	0.680	0.051	13.237	0.000	0.953	0.953
•						
Intercepts:						
	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
.Healthy_Rel.3n	0.000				0.000	0.000
.Communicate.3n	0.000				0.000	0.000
.CnflctMngmnt.3	0.000				0.000	0.000
.RightPartnr.3n	0.000				0.000	0.000
.LearnPartnr.3n	0.000				0.000	0.000
.PaceRltnshp.3n	0.000				0.000	0.000
.WarningSgns.3n	0.000				0.000	0.000
.LrndGrwngUp.3n	0.000				0.000	0.000
.PstRltnshps.3n	0.000				0.000	0.000
.GtAlngPrnts.3n	0.000				0.000	0.000
•						

RBA.post 0.000 0.000 0.000
Thresholds:
Estimate Std.Err z-value P(> z) Std.lv Std.al
Hlthy_Rl.3n t1 -1.747 0.204 -8.543 0.000 -1.747 -1.74
Hlthy_Rl.3n t2 -0.101 0.113 -0.894 0.371 -0.101 -0.10
Communct.3n t1 -1.585 0.183 -8.650 0.000 -1.585 -1.58
Communct.3n t2 0.000 0.113 0.000 1.000 0.000 0.00
CnflctMngm.3 1 -1.131 0.144 -7.874 0.000 -1.131 -1.13
CnflctMngm.3 2 0.162 0.114 1.430 0.153 0.162 0.16
RghtPrtnr.3n 1 -1.300 0.156 -8.356 0.000 -1.300 -1.30
RghtPrtnr.3n 2 0.061 0.113 0.537 0.592 0.061 0.06
LrnPrtnr.3n t1 -1.661 0.193 -8.624 0.000 -1.661 -1.66
LrnPrtnr.3n t2 -0.266 0.114 -2.323 0.020 -0.266 -0.26
PcRltnshp.3n 1 -1.518 0.176 -8.638 0.000 -1.518 -1.51
PcRltnshp.3n 2 -0.183 0.114 -1.609 0.108 -0.183 -0.18
WrnngSgns.3n 1 -1.747 0.204 -8.543 0.000 -1.747 -1.74
WrnngSgns.3n 2 -0.224 0.114 -1.966 0.049 -0.224 -0.22
LrndGrwngU.3 1 -1.457 0.169 -8.597 0.000 -1.457 -1.45
LrndGrwngU.3 2 -0.204 0.114 -1.788 0.074 -0.204 -0.20
PstRltnshp.3 1 -1.518 0.176 -8.638 0.000 -1.518 -1.51
PstRltnshp.3 2 -0.416 0.117 -3.567 0.000 -0.416 -0.41
GtAlngPrnt.3 1 -1.349 0.160 -8.452 0.000 -1.349 -1.34
GtAlngPrnt.3 2 -0.245 0.114 -2.144 0.032 -0.245 -0.24
FrndshpsAL.3 1 -1.518 0.176 -8.638 0.000 -1.518 -1.51
FrndshpsAL.3 2 -0.287 0.115 -2.501 0.012 -0.287 -0.28
Fights.3n t1 -1.349 0.160 -8.452 0.000 -1.349 -1.34
Fights.3n t2 -0.372 0.116 -3.212 0.001 -0.372 -0.37
FlngsHrt.3n t1 -1.661 0.193 -8.624 0.000 -1.661 -1.66
FlngsHrt.3n t2 -0.483 0.118 -4.096 0.000 -0.483 -0.48
RghtndWrng.3 1 -1.585 0.183 -8.650 0.000 -1.585 -1.58
RghtndWrng.3 2 -0.576 0.120 -4.797 0.000 -0.576 -0.57
Variances:
Estimate Std.Err z-value P(> z) Std.lv Std.al
.Healthy_Rel.3n 0.271 0.27 0.27
.Communicate.3n 0.187 0.187 0.187
.CnflctMngmnt.3 0.271 0.271 0.271
.RightPartnr.3n 0.309 0.309 0.309
.LearnPartnr.3n 0.101 0.101 0.101
.PaceRltnshp.3n 0.153 0.153 0.15

.WarningSgns.3n	0.042				0.042	0.042
$. {\tt LrndGrwngUp.3n}$	0.309				0.309	0.309
$. {\tt PstRltnshps.3n}$	0.130				0.130	0.130
$. {\tt GtAlngPrnts.3n}$	0.224				0.224	0.224
.FrndshpsArLk.3	0.159				0.159	0.159
.Fights.3n	0.264				0.264	0.264
.FeelingsHrt.3n	0.231				0.231	0.231
.RightndWrng.3n	0.161				0.161	0.161
HRS.post	0.729	0.057	12.818	0.000	1.000	1.000
PS.post	0.691	0.060	11.428	0.000	1.000	1.000
PRB.post	0.691	0.071	9.770	0.000	1.000	1.000
RBA.post	0.736	0.058	12.732	0.000	1.000	1.000
Scales y*:						
	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
Healthy_Rel.3n	1.000				1.000	1.000
Communicate.3n	1.000				1.000	1.000
CnflctMngmnt.3	1.000				1.000	1.000
RightPartnr.3n	1.000				1.000	1.000
LearnPartnr.3n	1.000				1.000	1.000
PaceRltnshp.3n	1.000				1.000	1.000
WarningSgns.3n	1.000				1.000	1.000
LrndGrwngUp.3n	1.000				1.000	1.000
PstRltnshps.3n	1.000				1.000	1.000
GtAlngPrnts.3n	1.000				1.000	1.000
FrndshpsArLk.3	1.000				1.000	1.000
Fights.3n	1.000				1.000	1.000
FeelingsHrt.3n	1.000				1.000	1.000
RightndWrng.3n	1.000				1.000	1.000

6.2.2 Modification Indices

6.2.3 Two Factor Solution

 ${\tt Information}$

Standard Errors

Information saturated (h1) model

lavaan (0.6	5-1) converged	d normally	after 3	7 iterations

		Used	Total	
Number of observations		124	134	
Estimator		DWLS	Robust	
Model Fit Test Statistic		76.506		
		76.506		
Degrees of freedom			75	
P-value (Chi-square)		0.430	0.000	
Scaling correction factor			0.748	
Shift parameter			37.195	
for simple second-order correction	(Mplus va	riant)		
Model test baseline model:				
Minimum Function Test Statistic	159	91.638	3632.575	
Degrees of freedom		91	91	
P-value		0.000	0.000	
User model versus baseline model:				
Comparative Fit Index (CFI)		1.000	0.982	
Tucker-Lewis Index (TLI)		1.000	0.978	
Robust Comparative Fit Index (CFI)			NA	
Robust Tucker-Lewis Index (TLI)			NA	
Root Mean Square Error of Approximation	:			
RMSEA		0.013	0.084	
90 Percent Confidence Interval	0.000	0.053	0.062	0.105
P-value RMSEA <= 0.05	0.000	0.926	0.002	0.100
F-value Midea (- 0.00		0.920	0.008	
Robust RMSEA			NA	
				NT A
90 Percent Confidence Interval			NA	NA
Standardized Root Mean Square Residual:				
dDMD		0.050	0.050	
SRMR		0.058	0.058	
Domomoton Estimatos:				
Parameter Estimates:				

Expected

Unstructured

Robust.sem

Latent Variables:

	Estimate	Std.Err	z-value	P(> z)	Std.lv
Skills_and_Partner_Sel =~	•				
Healthy_Rel.3n	1.000				0.843
Communicate.3n	1.056	0.035	30.251	0.000	0.890
CnflctMngmnt.3	0.963	0.049	19.476	0.000	0.812
RightPartnr.3n	0.948	0.046	20.443	0.000	0.799
LearnPartnr.3n	1.127	0.042	26.935	0.000	0.950
PaceRltnshp.3n	1.093	0.039	28.263	0.000	0.922
WarningSgns.3n	1.166	0.049	23.582	0.000	0.984
Behav_Attit_Patterns =~					
LrndGrwngUp.3n	1.000				0.811
PstRltnshps.3n	1.112	0.052	21.506	0.000	0.901
GtAlngPrnts.3n	1.061	0.058	18.434	0.000	0.860
FrndshpsArLk.3	1.105	0.053	20.672	0.000	0.896
Fights.3n	1.072	0.067	15.951	0.000	0.869
FeelingsHrt.3n	1.104	0.062	17.764	0.000	0.895
RightndWrng.3n	1.135	0.055	20.629	0.000	0.920
Std.all					

0.843

0.890

0.812

0.799

0.950

0.922

0.984

0.811

0.901

0.860

0.896

0.869

0.895

0.920

Covariances:

	Estimate	Std.Err	z-value	P(> z)	Std.lv
.ConflictManagement.3n ~~					
$.\mathtt{RightPartnr.3n}$	0.174	0.060	2.885	0.004	0.174
Skills_and_Partner_Sel ~~					
Bhv_Attt_Pttrn	0.544	0.066	8.270	0.000	0.796
Std.all					

0.497

0.796

Intercepts:

FlngsHrt.3n|t2

-0.483

Intercepts:						
	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
.Healthy_Rel.3n	0.000				0.000	0.000
.Communicate.3n	0.000				0.000	0.000
.CnflctMngmnt.3	0.000				0.000	0.000
.RightPartnr.3n	0.000				0.000	0.000
.LearnPartnr.3n	0.000				0.000	0.000
.PaceRltnshp.3n	0.000				0.000	0.000
.WarningSgns.3n	0.000				0.000	0.000
.LrndGrwngUp.3n	0.000				0.000	0.000
.PstRltnshps.3n	0.000				0.000	0.000
.GtAlngPrnts.3n	0.000				0.000	0.000
.FrndshpsArLk.3	0.000				0.000	0.000
.Fights.3n	0.000				0.000	0.000
.FeelingsHrt.3n	0.000				0.000	0.000
.RightndWrng.3n	0.000				0.000	0.000
Sklls_nd_Prt_S	0.000				0.000	0.000
Bhv_Attt_Pttrn	0.000				0.000	0.000
Thresholds:						
	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
Hlthy_Rl.3n t1	-1.747	0.204	-8.543	0.000	-1.747	-1.747
Hlthy_Rl.3n t2	-0.101	0.113	-0.894	0.371	-0.101	-0.101
Communct.3n t1	-1.585	0.183	-8.650	0.000	-1.585	-1.585
Communct.3n t2	0.000	0.113	0.000	1.000	0.000	0.000
CnflctMngm.3 1	-1.131	0.144	-7.874	0.000	-1.131	-1.131
CnflctMngm.3 2	0.162	0.114	1.430	0.153	0.162	0.162
RghtPrtnr.3n 1	-1.300	0.156	-8.356	0.000	-1.300	-1.300
RghtPrtnr.3n 2	0.061	0.113	0.537	0.592	0.061	0.061
LrnPrtnr.3n t1	-1.661	0.193	-8.624	0.000	-1.661	-1.661
LrnPrtnr.3n t2	-0.266	0.114	-2.323	0.020	-0.266	-0.266
PcRltnshp.3n 1	-1.518	0.176	-8.638	0.000	-1.518	-1.518
PcRltnshp.3n 2	-0.183	0.114	-1.609	0.108	-0.183	-0.183
WrnngSgns.3n 1	-1.747	0.204	-8.543	0.000	-1.747	-1.747
WrnngSgns.3n 2	-0.224	0.114	-1.966	0.049	-0.224	-0.224
LrndGrwngU.3 1	-1.457	0.169	-8.597	0.000	-1.457	-1.457
LrndGrwngU.3 2	-0.204	0.114	-1.788	0.074	-0.204	-0.204
PstRltnshp.3 1	-1.518	0.176	-8.638	0.000	-1.518	-1.518
PstRltnshp.3 2	-0.416	0.117	-3.567	0.000	-0.416	-0.416
GtAlngPrnt.3 1	-1.349	0.160	-8.452	0.000	-1.349	-1.349
GtAlngPrnt.3 2	-0.245	0.114	-2.144	0.032	-0.245	-0.245
FrndshpsAL.3 1	-1.518	0.176	-8.638	0.000	-1.518	-1.518
FrndshpsAL.3 2	-0.287	0.115	-2.501	0.012	-0.287	-0.287
Fights.3n t1	-1.349	0.160	-8.452	0.000	-1.349	-1.349
Fights.3n t2	-0.372	0.116	-3.212	0.001	-0.372	-0.372
FlngsHrt.3n t1	-1.661	0.110	-8.624	0.000	-1.661	-1.661
Fingshire.Shiper	-1.001	0.193	4.006	0.000	0.400	0.402

0.118

-4.096

0.000

-0.483

-0.483

RghtndWrng.3 1	-1.585 -0.576	0.183 0.120	-8.650 -4.797	0.000	-1.585 -0.576	-1.585 -0.576
RghtndWrng.3 2	-0.576	0.120	-4.191	0.000	-0.576	-0.576
Variances:						
	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
.Healthy_Rel.3n	0.289			,	0.289	0.289
.Communicate.3n	0.208				0.208	0.208
.CnflctMngmnt.3	0.340				0.340	0.340
.RightPartnr.3n	0.361				0.361	0.361
.LearnPartnr.3n	0.098				0.098	0.098
.PaceRltnshp.3n	0.150				0.150	0.150
.WarningSgns.3n	0.033				0.033	0.033
.LrndGrwngUp.3n	0.343				0.343	0.343
.PstRltnshps.3n	0.188				0.188	0.188
$. {\tt GtAlngPrnts.3n}$	0.260				0.260	0.260
.FrndshpsArLk.3	0.197				0.197	0.197
.Fights.3n	0.245				0.245	0.245
$. { t FeelingsHrt.3n}$	0.199				0.199	0.199
$.\mathtt{RightndWrng.3n}$	0.154				0.154	0.154
Sklls_nd_Prt_S	0.711	0.058	12.165	0.000	1.000	1.000
Bhv_Attt_Pttrn	0.657	0.071	9.247	0.000	1.000	1.000
Scales y*:						
·	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
Healthy_Rel.3n	1.000				1.000	1.000
Communicate.3n	1.000				1.000	1.000
CnflctMngmnt.3	1.000				1.000	1.000
RightPartnr.3n	1.000				1.000	1.000
LearnPartnr.3n	1.000				1.000	1.000
${\tt PaceRltnshp.3n}$	1.000				1.000	1.000
WarningSgns.3n	1.000				1.000	1.000
${\tt LrndGrwngUp.3n}$	1.000				1.000	1.000
PstRltnshps.3n	1.000				1.000	1.000
GtAlngPrnts.3n	1.000				1.000	1.000
FrndshpsArLk.3	1.000				1.000	1.000
Fights.3n	1.000				1.000	1.000
FeelingsHrt.3n	1.000				1.000	1.000
RightndWrng.3n	1.000				1.000	1.000

6.2.4 Modification Indices

6.3 Categorical Retrospective Pre and Post

Warning in law_object_post_check(object): lavaan WARNING: covariance matrix of latent variable is not positive definite;
use inspect(fit, "cov.lv") to investigate.

lavaan (0.6-1) converged normally after 506 iterations

Ç ,				
		Used	Total	
Number of observations		111	134	
Estimator		DWLS	Robust	
Model Fit Test Statistic	2	217.455	354.631	
Degrees of freedom		308	308	
P-value (Chi-square)		1.000	0.035	
Scaling correction factor			1.375	
Shift parameter			196.490	
for simple second-order correction ((Mplus va	riant)		
Model test baseline model:				
Minimum Function Test Statistic	186	02.907	4580.137	
Degrees of freedom		378	378	
P-value		0.000	0.000	
User model versus baseline model:				
Comparative Fit Index (CFI)		1.000	0.989	
Tucker-Lewis Index (TLI)		1.006	0.986	
Robust Comparative Fit Index (CFI)			NA	
Robust Tucker-Lewis Index (TLI)			NA	
Root Mean Square Error of Approximation:	:			
RMSEA		0.000	0.037	
90 Percent Confidence Interval	0.000	0.000	0.011	0.054
P-value RMSEA <= 0.05		1.000	0.894	
Robust RMSEA			NA	
90 Percent Confidence Interval			NA	NA
Standardized Root Mean Square Residual:				

Parameter Estimates:

 ${\tt SRMR}$

0.079

0.079

Information	Expected
Information saturated (h1) model	Unstructured
Standard Errors	Robust.sem

Intont	Variables	,
Latent	varianies	В

Latent variables.						
	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
HRS.rpre =~						
Hlthy_Rl_Bfr.3	1.000				2.480	0.927
Commnct_Bfr.3n	0.479	0.203	2.359	0.018	1.187	0.765
CnflctMngm_B.3	0.733	0.312	2.349	0.019	1.818	0.876
HRS.post =~						
${\tt Healthy_Rel.3n}$	1.000				1.750	0.873
Communicate.3n	0.165	0.138	1.191	0.234	0.288	0.911
CnflctMngmnt.3	0.346	0.202	1.711	0.087	0.606	0.804
PS.rpre =~						
RghtPrtnr_Bf.3	1.000				1.750	0.868
LrnPrtnr_Bfr.3	1.935	0.946	2.045	0.041	3.386	0.959
PcRltnshp_Bf.3	1.361	0.514	2.647	0.008	2.382	0.922
WrnngSgns_Bf.3	1.047	0.337	3.111	0.002	1.832	0.878
PS.post =~						
RightPartnr.3n	1.000				1.970	0.805
LearnPartnr.3n	1.729	1.200	1.441	0.150	3.405	0.944
PaceRltnshp.3n	1.018	0.508	2.004	0.045	2.006	0.922
WarningSgns.3n	0.836	0.504	1.657	0.097	1.647	0.985
PRB.rpre =~						
LrndGrwngU_B.3	1.000				2.031	0.897
PstRltnshp_B.3	0.612	0.132	4.646	0.000	1.242	0.779
GtAlngPrnt_B.3	0.843	0.196	4.298	0.000	1.712	0.863
FrndshpsAL_B.3	1.078	0.269	4.006	0.000	2.190	0.910
PRB.post =~						
LrndGrwngUp.3n	1.000				1.617	0.820
PstRltnshps.3n	0.227	0.459	0.495	0.621	0.367	0.911
GtAlngPrnts.3n	0.043	0.447	0.096	0.923	0.070	0.863
FrndshpsArLk.3	0.049	0.516	0.095	0.924	0.080	0.914
RBA.rpre =~						
Fights_Befr.3n	1.000				1.165	0.759
FlngsHrt_Bfr.3	1.247	0.250	4.987	0.000	1.452	0.824
RghtndWrng_B.3	1.197	0.265	4.514	0.000	1.394	0.813
RBA.post =~						
Fights.3n	1.000				1.256	0.837
FeelingsHrt.3n	0.580	0.402	1.442	0.149	0.728	0.846
RightndWrng.3n	1.773	1.979	0.896	0.370	2.226	0.921
=						

Covariances:

	Estimate	Std.Err	z-value	P(> z)
HRS.rpre ~~				
HRS.post	0.639	0.669	0.955	0.339
PS.rpre	3.432	1.383	2.482	0.013

PS.post	0.331	0.576	0.575	0.565
PRB.rpre	3.006	1.254	2.398	0.016
PRB.post	-0.448	0.490	-0.915	0.360
RBA.rpre	1.859	0.782	2.377	0.017
RBA.post	0.296	0.417	0.711	0.477
HRS.post ~~				
PS.rpre	-0.090	0.351	-0.256	0.798
PS.post	3.512	1.786	1.966	0.049
PRB.rpre	0.821	0.520	1.580	0.114
PRB.post	1.973	0.997	1.980	0.048
RBA.rpre	0.434	0.305	1.423	0.155
RBA.post	1.876	0.935	2.006	0.045
PS.rpre ~~				
PS.post	0.029	0.406	0.072	0.942
PRB.rpre	1.960	0.627	3.127	0.002
PRB.post	-0.243	0.342	-0.712	0.476
RBA.rpre	1.138	0.378	3.013	0.003
RBA.post	0.052	0.297	0.174	0.861
PS.post ~~				
PRB.rpre	0.893	0.559	1.596	0.110
PRB.post	2.236	0.882	2.535	0.011
RBA.rpre	0.310	0.283	1.093	0.274
RBA.post	2.031	0.846	2.399	0.016
PRB.rpre ~~				
PRB.post	1.321	0.583	2.265	0.023
RBA.rpre	2.217	0.678	3.272	0.001
RBA.post	0.876	0.426	2.055	0.040
PRB.post ~~				
RBA.rpre	0.378	0.258	1.469	0.142
RBA.post	1.905	0.720	2.644	0.008
RBA.rpre ~~				
RBA.post	0.466	0.242	1.928	0.054
.Healthy_Rel_Before.3n ~~				
.Healthy_Rel.3n	0.747	0.607	1.230	0.219
.Communicate_Before.3n ~~				
.Communicate.3n	0.096	0.089	1.080	0.280
.ConflictManagement_Before.3n ~~				
.CnflctMngmnt.3	0.206	0.167	1.236	0.217
.RightPartner_Before.3n ~~				
.RightPartnr.3n	0.167	0.511	0.326	0.744
.LearnPartner_Before.3n ~~				
.LearnPartnr.3n	1.671	2.085	0.802	0.423
.PaceRelationship_Before.3n ~~				
.PaceRltnshp.3n	0.879	0.828	1.062	0.288
.WarningSigns_Before.3n ~~				
.WarningSgns.3n	0.291	0.346	0.840	0.401
.LearnedGrowingUp_Before.3n ~~				
.LrndGrwngUp.3n	0.210	0.467	0.449	0.653

Pac+Rola	tionships_Before.3n ~~				
	nshps.3n	0.180	0.381	0.471	0.637
	Parents_Before.3n ~~			- · - · -	2.301
_	Prnts.3n	0.018	0.189	0.095	0.924
_	ipsAreLike_Before.3n ~~				
	psArLk.3	0.050	0.522	0.095	0.924
.Fights_B	efore.3n ~~				
.Fights	.3n	0.506	0.230	2.197	0.028
.Feelings	Hurt_Before.3n ~~				
	gsHrt.3n	0.265	0.195	1.362	0.173
_	Wrong_Before.3n ~~				
_	dWrng.3n	0.881	1.000	0.881	0.378
Std.lv	Std.all				
0 445	0.445				
0.147	0.147				
0.791	0.791				
0.068	0.068				
0.597	0.597				
-0.112	-0.112				
0.644	0.644				
0.095	0.095				
-0.029	-0.029				
1.019	1.019				
0.231	0.231				
0.697	0.697				
0.213	0.213				
0.854	0.854				
0.009	0.009				
0.551	0.551				
-0.086	-0.086				
0.558	0.558				
0.024	0.024				
0.223	0.223				
0.702	0.702				
0.135	0.135				
0.821	0.821				
0.402	0.402				
0.937	0.937				
0.343	0.343				
0.201	0.201				
0.938	0.938				
0.319	0.319				

0.747	0.764
0.096	0.736
0.206	0.459
0.167	0.115
1.671	1.403
0.879	1.044
0.291	1.017
0.210	0.185
0.180	1.080
0.018	0.443
0.050	1.403
0.506	0.618
0.265	0.578
0.881	0.938

rtercepts:						
	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
HRS.rpre	0.000				0.000	0.000
HRS.post	4.690	1.599	2.933	0.003	2.680	2.680
PS.rpre	0.000				0.000	0.000
PS.post	4.684	0.939	4.991	0.000	2.378	2.378
PRB.rpre	0.000				0.000	0.000
PRB.post	3.249	0.514	6.316	0.000	2.009	2.009
RBA.rpre	0.000				0.000	0.000
RBA.post	1.940	0.352	5.508	0.000	1.545	1.545
.Hlthy_Rl_Bfr.3	0.000				0.000	0.000
.Commnct_Bfr.3n	0.000				0.000	0.000
$.{\tt CnflctMngm_B.3}$	0.000				0.000	0.000
.Healthy_Rel.3n	0.000				0.000	0.000
.Communicate.3n	0.000				0.000	0.000
.CnflctMngmnt.3	0.000				0.000	0.000
.RghtPrtnr_Bf.3	0.000				0.000	0.000
.LrnPrtnr_Bfr.3	0.000				0.000	0.000
.PcRltnshp_Bf.3	0.000				0.000	0.000

.WrnnøS	gns_Bf.3	0.000				0.000	0.000
_	artnr.3n	0.000				0.000	0.000
•	artnr.3n	0.000				0.000	0.000
	tnshp.3n	0.000				0.000	0.000
	gSgns.3n	0.000				0.000	0.000
	wngU_B.3	0.000				0.000	0.000
	nshp_B.3	0.000				0.000	0.000
	Prnt_B.3	0.000				0.000	0.000
_	psAL_B.3	0.000				0.000	0.000
· ·	wngUp.3n	0.000				0.000	0.000
	nshps.3n	0.000				0.000	0.000
	Prnts.3n	0.000				0.000	0.000
_	psArLk.3	0.000				0.000	0.000
· ·	_Befr.3n	0.000				0.000	0.000
_	rt_Bfr.3	0.000				0.000	0.000
_	Wrng_B.3	0.000				0.000	0.000
.Fights	U -	0.000				0.000	0.000
_	gsHrt.3n	0.000				0.000	0.000
	dWrng.3n	0.000				0.000	0.000
G	O						
Thresholds	:						
		Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
H_R_B .	(V1t1)	0.828	0.439	1.887	0.059	0.828	0.310
H_R_B .	(V1t2)	4.532	1.492	3.038	0.002	4.532	1.695
H_R.3	(V1t1)	0.828	0.439	1.887	0.059	0.828	0.413
H_R.3	(V1t2)	4.532	1.492	3.038	0.002	4.532	2.260
C_B.3	(V2t1)	0.264	0.192	1.377	0.168	0.264	0.170
C_B.3	(V2T1)	2.494	0.369	6.767	0.000	2.494	1.607
Cm.3 1	(V2t1)	0.264	0.192	1.377	0.168	0.264	0.834
Cm.3 2	(V2T2)	0.769	0.592	1.299	0.194	0.769	2.430
CM_B.3	(V3t1)	0.692	0.288	2.402	0.016	0.692	0.334
CM_B.3	(V3T1)	3.516	0.676	5.199	0.000	3.516	1.695
CM.3 1	(V3t1)	0.692	0.288	2.402	0.016	0.692	0.918
CM.3 2	(V3T2)	1.753	0.788	2.225	0.026	1.753	2.324
RP_B.3	(V4t1)	1.403	0.359	3.909	0.000	1.403	0.696
RP_B.3	(V4t2)	4.767	0.932	5.115	0.000	4.767	2.365
RP.3 1	(V4t1)	1.403	0.359	3.909	0.000	1.403	0.573
RP.3 2	(V4t2)	4.767	0.932	5.115	0.000	4.767	1.947
LP_B.3	(V5t1)	1.609	0.797	2.019	0.044	1.609	0.456
LP_B.3	(V5T1)	7.402	3.180	2.328	0.020	7.402	2.097
LP.3 1	(V5t1)	1.609	0.797	2.019	0.044	1.609	0.446
LP.3 2	(V5T2)	6.980	4.927	1.417	0.157	6.980	1.935
PR_B.3	(V6t1)	1.442	0.480	3.006	0.003	1.442	0.558
PR_B.3	(V6T1)	4.976	1.116	4.460	0.000	4.976	1.926
PR.3 1	(V6t1)	1.442	0.480	3.006	0.003	1.442	0.663
PR.3 2	(V6T2)	4.400	2.190	2.009	0.045	4.400	2.022
WS_B.3	(V7t1)	0.696	0.287	2.427	0.015	0.696	0.334
WS_B.3	(V7T1)	4.021	0.795	5.057	0.000	4.021	1.926

	WS.3 1 (V7t1	0.696	0.287	2.427	0.015	0.696	0.417
	WS.3 2 (V7T2	2) 3.516	2.239	1.570	0.116	3.516	2.104
	LGU_B. (V8t1	0.231	0.283	0.815	0.415	0.231	0.102
	LGU_B. (V8t2	2.913	0.445	6.545	0.000	2.913	1.287
	LGU.3 (V8t1	0.231	0.283	0.815	0.415	0.231	0.117
	LGU.3 (V8t2	2.913	0.445	6.545	0.000	2.913	1.476
	PR_B.3 (V9t1	0.090	0.193	0.467	0.640	0.090	0.056
	PR_B.3 (V9T1	1.758	0.261	6.736	0.000	1.758	1.102
	PR.3 1 (V9t1	0.090	0.193	0.467	0.640	0.090	0.223
	PR.3 2 (V9T2		1.156	0.488	0.625	0.564	1.399
	GAP_B. (V101		0.237	0.093	0.926	0.022	0.011
	GAP_B. (V10T1		0.274	5.684	0.000	1.556	0.785
	GAP.3 (V101		0.237	0.093	0.926	0.022	0.274
	GAP.3 (V10T2		1.259	0.096	0.924	0.120	1.495
	FAL_B. (V111		0.289	0.093	0.926	0.027	0.011
	FAL_B. (V11T1		0.401	5.288	0.000	2.121	0.881
	FAL.3 (V111		0.289	0.093	0.926	0.027	0.307
	FAL.3 (V11T2		1.425	0.095	0.924	0.135	1.551
	F_B.3 (V121		0.182	-0.857	0.391	-0.156	-0.102
	F_B.3 (V122		0.238	5.897	0.000	1.404	0.915
	Fg.3 1 (V121		0.182	-0.857	0.391	-0.156	-0.104
	Fg.3 2 (V122		0.238	5.897	0.000	1.404	0.936
	FH_B.3 (V131		0.208	-2.033	0.042	-0.422	-0.239
	FH_B.3 (V13T1		0.245	7.365	0.000	1.803	1.023
	FH.3 1 (V131		0.208	-2.033	0.042	-0.422	-0.491
	FH.3 2 (V13T2	2) 0.711	0.500	1.424	0.155	0.711	0.827
	RW_B.3 (V141	-0.655	0.204	-3.208	0.001	-0.655	-0.382
	RW_B.3 (V14T1	1.455	0.247	5.893	0.000	1.455	0.848
	RW.3 1 (V141	-0.655	0.204	-3.208	0.001	-0.655	-0.271
	RW.3 2 (V14T2	2.091	2.438	0.857	0.391	2.091	0.865
Var	iances:			_	- ())		
		Estimate			P(> z)		Std.all
	HRS.rpre	6.149	4.367	1.408	0.159	1.000	1.000
	HRS.post	3.063	2.251	1.361	0.174	1.000	1.000
	PS.rpre	3.062	1.252	2.445	0.014	1.000	1.000
	PS.post	3.881	2.175	1.784	0.074	1.000	1.000
	PRB.rpre	4.127	1.527	2.702	0.007	1.000	1.000
	PRB.post	2.616	1.081	2.420	0.016	1.000	1.000
	RBA.rpre	1.356	0.498	2.725	0.006	1.000	1.000
	RBA.post	1.576	0.773	2.041	0.041	1.000	1.000
	.Hlthy_Rl_Bfr.					1.000	0.140
	.Commnct_Bfr.3					1.000	0.415
	.CnflctMngm_B.					1.000	0.232
	.RghtPrtnr_Bf.					1.000	0.246
	.LrnPrtnr_Bfr.					1.000	0.080
	.PcRltnshp_Bf.					1.000	0.150
	.WrnngSgns_Bf.	3 1.000				1.000	0.230

	I 10 II D 2	1 000				1 000	0 105
	.LrndGrwngU_B.3	1.000				1.000	0.195
	.PstRltnshp_B.3	1.000				1.000	0.393
	.GtAlngPrnt_B.3	1.000				1.000	0.254
	.FrndshpsAL_B.3	1.000				1.000	0.173
	.Fights_Befr.3n	1.000				1.000	0.424
	.FlngsHrt_Bfr.3	1.000				1.000	0.322
	.RghtndWrng_B.3	1.000				1.000	0.340
	$. {\tt Healthy_Rel.3n}$	0.956	0.643	1.486	0.137	0.956	0.238
	.Communicate.3n	0.017	0.028	0.617	0.538	0.017	0.171
	$. {\tt CnflctMngmnt.3}$	0.201	0.209	0.964	0.335	0.201	0.354
	$. \verb RightPartnr.3n $	2.115	1.056	2.003	0.045	2.115	0.353
	$. {\tt LearnPartnr.3n}$	1.420	2.394	0.593	0.553	1.420	0.109
	$. {\tt PaceRltnshp.3n}$	0.710	0.874	0.813	0.416	0.710	0.150
	.WarningSgns.3n	0.082	0.157	0.520	0.603	0.082	0.029
	.LrndGrwngUp.3n	1.279	0.476	2.686	0.007	1.279	0.328
	.PstRltnshps.3n	0.028	0.115	0.241	0.810	0.028	0.170
	.GtAlngPrnts.3n	0.002	0.034	0.048	0.962	0.002	0.254
	.FrndshpsArLk.3	0.001	0.026	0.048	0.962	0.001	0.164
	.Fights.3n	0.673	0.250	2.692	0.007	0.673	0.299
	.FeelingsHrt.3n	0.210	0.250	0.838	0.402	0.210	0.284
	.RightndWrng.3n	0.882	1.635	0.539	0.590	0.882	0.151
	0 0						
Sca	ales y*:						
500	1200 y .	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
	Hlthy_Rl_Bfr.3	0.374	Dod.HII	Z varuo	1 (2)	0.374	1.000
	Communication Co	0.644				0.644	1.000
	-	0.482				0.482	1.000
	CnflctMngm_B.3						1.000
	Healthy_Rel.3n	0.499				0.499	
	Communicate.3n	3.157				3.157	1.000
	CnflctMngmnt.3	1.326				1.326	1.000
	RghtPrtnr_Bf.3	0.496				0.496	1.000
	LrnPrtnr_Bfr.3	0.283				0.283	1.000
	PcRltnshp_Bf.3	0.387				0.387	1.000
	WrnngSgns_Bf.3	0.479				0.479	1.000
	RightPartnr.3n	0.408				0.408	1.000
	LearnPartnr.3n	0.277				0.277	1.000
	PaceRltnshp.3n	0.460				0.460	1.000
	WarningSgns.3n	0.598				0.598	1.000
	LrndGrwngU_B.3	0.442				0.442	1.000
	PstRltnshp_B.3	0.627				0.627	1.000
	GtAlngPrnt_B.3	0.504				0.504	1.000
	FrndshpsAL_B.3	0.415				0.415	1.000
	${\tt LrndGrwngUp.3n}$	0.507				0.507	1.000
	PstRltnshps.3n	2.480				2.480	1.000
	GtAlngPrnts.3n	12.420				12.420	1.000
	FrndshpsArLk.3	11.474				11.474	1.000
	Fights_Befr.3n	0.651				0.651	1.000
	FlngsHrt_Bfr.3	0.567				0.567	1.000

RghtndWrng_B.3	0.583	0.583	1.000
Fights.3n	0.667	0.667	1.000
FeelingsHrt.3n	1.163	1.163	1.000
RightndWrng.3n	0.414	0.414	1.000

6.4 Measurement Invariance

6.4.1 Configural Invariant

Warning in law_object_post_check(object): lavaan WARNING: covariance matrix of latent variable is not positive definite;
use inspect(fit,"cov.lv") to investigate.

lavaan (0.6-1) converged normally after 191 iterations

Number of observations		Used 111	Total 134	
Estimator Model Fit Test Statistic Degrees of freedom	2	DWLS 17.455 294	Robust 339.559 294	
P-value (Chi-square) Scaling correction factor Shift parameter for simple second-order correction	(Mplus va	1.000 riant)	0.035 1.407 185.053	
Model test baseline model:	-			
Minimum Function Test Statistic Degrees of freedom P-value	186	02.907 378 0.000	378	
User model versus baseline model:				
Comparative Fit Index (CFI) Tucker-Lewis Index (TLI)		1.000 1.005	0.989 0.986	
Robust Comparative Fit Index (CFI) Robust Tucker-Lewis Index (TLI)			NA NA	
Root Mean Square Error of Approximation	ı:			
RMSEA 90 Percent Confidence Interval P-value RMSEA <= 0.05	0.000	0.000 0.000 1.000	0.038 0.011 0.881	0.054
Robust RMSEA 90 Percent Confidence Interval			NA NA	NA
Standardized Root Mean Square Residual:				
SRMR		0.079	0.079	

Parameter Estimates:

Information	Expected
Information saturated (h1) model	Unstructured
Standard Errors	Robust.sem

Latent Variables:

racent variables.						
	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
HRS.rpre =~						
<pre>Hlthy_Rl_Bfr.3</pre>	1.000				2.481	0.927
Commnct_Bfr.3n	0.479	0.203	2.357	0.018	1.187	0.765
CnflctMngm_B.3	0.733	0.312	2.348	0.019	1.818	0.876
HRS.post =~						
Healthy_Rel.3n	1.000				1.751	0.873
Communicate.3n	0.165	0.138	1.191	0.234	0.288	0.911
CnflctMngmnt.3	0.346	0.202	1.711	0.087	0.606	0.804
PS.rpre =~						
RghtPrtnr_Bf.3	1.000				0.911	0.868
LrnPrtnr_Bfr.3	1.914	0.298	6.429	0.000	1.744	0.959
PcRltnshp_Bf.3	1.731	0.463	3.738	0.000	1.577	0.922
WrnngSgns_Bf.3	1.870	0.279	6.708	0.000	1.703	0.878
PS.post =~						
RightPartnr.3n	1.000				1.026	0.805
LearnPartnr.3n	2.026	0.284	7.146	0.000	2.078	0.944
${\tt PaceRltnshp.3n}$	2.244	0.390	5.758	0.000	2.301	0.922
WarningSgns.3n	2.045	0.326	6.265	0.000	2.097	0.985
PRB.rpre =~						
LrndGrwngU_B.3	1.000				0.968	0.897
PstRltnshp_B.3	1.481	0.256	5.793	0.000	1.434	0.779
<pre>GtAlngPrnt_B.3</pre>	1.494	0.274	5.463	0.000	1.447	0.863
FrndshpsAL_B.3	1.622	0.325	4.997	0.000	1.571	0.910
PRB.post =~						
${\tt LrndGrwngUp.3n}$	1.000				0.771	0.820
PstRltnshps.3n	1.773	0.347	5.105	0.000	1.366	0.911
GtAlngPrnts.3n	2.127	0.280	7.604	0.000	1.639	0.863
FrndshpsArLk.3	2.373	0.279	8.499	0.000	1.829	0.914
RBA.rpre =~						
Fights_Befr.3n	1.000				0.789	0.759
FlngsHrt_Bfr.3	1.969	0.261	7.558	0.000	1.553	0.824
RghtndWrng_B.3	1.703	0.271	6.273	0.000	1.343	0.813
RBA.post =~						
Fights.3n	1.000				0.850	0.837
FeelingsHrt.3n	1.503	0.285	5.268	0.000	1.278	0.846
RightndWrng.3n	1.938	0.348	5.576	0.000	1.648	0.921

Covariances:

Estimate Std.Err z-value P(>|z|)

HRS.rpre ~~

HRS.post	0.639	0.669	0.955	0.340
PS.rpre	1.787	0.622	2.872	0.004
PS.post	0.172	0.291	0.593	0.553
PRB.rpre	1.433	0.498	2.878	0.004
PRB.post	-0.214	0.234	-0.911	0.362
RBA.rpre	1.259	0.427	2.952	0.003
RBA.post	0.201	0.270	0.744	0.457
HRS.post ~~				
PS.rpre	-0.047	0.182	-0.257	0.798
PS.post	1.829	0.677	2.701	0.007
PRB.rpre	0.391	0.232	1.686	0.092
PRB.post	0.941	0.416	2.259	0.024
RBA.rpre	0.294	0.193	1.523	0.128
RBA.post	1.271	0.500	2.543	0.011
PS.rpre ~~				
PS.post	0.008	0.110	0.072	0.942
PRB.rpre	0.486	0.141	3.455	0.001
PRB.post	-0.060	0.085	-0.713	0.476
RBA.rpre	0.401	0.143	2.805	0.005
RBA.post	0.018	0.104	0.176	0.861
PS.post ~~				
PRB.rpre	0.222	0.123	1.802	0.072
PRB.post	0.555	0.145	3.828	0.000
RBA.rpre	0.109	0.099	1.107	0.268
RBA.post	0.716	0.172	4.171	0.000
PRB.rpre ~~				
PRB.post	0.300	0.090	3.321	0.001
RBA.rpre	0.716	0.164	4.355	0.000
RBA.post	0.283	0.104	2.728	0.006
PRB.post ~~				
RBA.rpre	0.122	0.073	1.674	0.094
RBA.post	0.615	0.141	4.366	0.000
RBA.rpre ~~				
RBA.post	0.214	0.081	2.629	0.009
.Healthy_Rel_Before.3n ~~				
.Healthy_Rel.3n	0.747	0.608	1.230	0.219
.Communicate_Before.3n ~~				
.Communicate.3n	0.096	0.089	1.080	0.280
.ConflictManagement_Before.3n ~~				
.CnflctMngmnt.3	0.206	0.167	1.236	0.217
.RightPartner_Before.3n ~~				
.RightPartnr.3n	0.045	0.139	0.325	0.745
.LearnPartner_Before.3n ~~				
.LearnPartnr.3n	0.525	0.320	1.642	0.101
.PaceRelationship_Before.3n ~~				
.PaceRltnshp.3n	0.668	0.402	1.664	0.096
.WarningSigns_Before.3n ~~				
.WarningSgns.3n	0.344	0.349	0.987	0.324

LoomodC	rouingUn Poforo 2n				
	rowingUp_Before.3n ~~ wngUp.3n	0.048	0.103	0.462	0.644
	tionships_Before.3n ~~	0.040	0.105	0.402	0.044
	nshps.3n	0.771	0.294	2.619	0.009
	Parents_Before.3n ~~	0.111	0.234	2.013	0.003
_	Prnts.3n	0.358	0.246	1.454	0.146
_	ipsAreLike_Before.3n ~~	0.550	0.240	1.404	0.140
	psArLk.3	0.815	0.272	3.000	0.003
	efore.3n ~~	0.010	0.212	3.000	0.005
.Fights		0.232	0.105	2.214	0.027
•	Hurt_Before.3n ~~	0.202	0.100	2.211	0.021
_	gsHrt.3n	0.498	0.285	1.747	0.081
	Wrong_Before.3n ~~	0.100	0.200	1.7.17	0.001
_	dWrng.3n	0.628	0.253	2.480	0.013
_	Std.all	0.020	0.200	2.100	0.010
504.10					
0.147	0.147				
0.791	0.791				
0.068	0.068				
0.597	0.597				
-0.112	-0.112				
0.644	0.644				
0.095	0.095				
-0.029	-0.029				
1.019	1.019				
0.231	0.231				
0.697	0.697				
0.213	0.213				
0.854	0.854				
0.009	0.009				
0.551	0.551				
-0.086	-0.086				
0.558	0.558				
0.024	0.024				
0.223	0.223				
0.702	0.702				
0.135	0.135				
0.821	0.821				
0.402	0.402				
0.937	0.937				
0.343	0.343				
0.201	0.201				
0.938	0.938				

0.319	0.319
0.747	0.764
0.096	0.736
0.206	0.459
0.045	0.115
0.525	1.403
0.668	1.044
0.344	1.017
0.048	0.185
0.771	1.080
0.358	0.443
0.815	1.403
0.232	0.618
0.498	0.578
0.628	0.938

	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
HRS.rpre	0.000				0.000	0.000
HRS.post	4.692	1.601	2.931	0.003	2.680	2.680
PS.rpre	-1.364	0.229	-5.965	0.000	-1.497	-1.497
PS.post	1.075	0.180	5.956	0.000	1.048	1.048
PRB.rpre	-0.793	0.157	-5.053	0.000	-0.819	-0.819
PRB.post	0.755	0.116	6.522	0.000	0.980	0.980
RBA.rpre	-0.621	0.119	-5.204	0.000	-0.787	-0.787
RBA.post	0.693	0.141	4.906	0.000	0.815	0.815
.Hlthy_Rl_Bfr.3	0.000				0.000	0.000
.Commnct_Bfr.3n	0.000				0.000	0.000
.CnflctMngm_B.3	0.000				0.000	0.000
.Healthy_Rel.3n	0.000				0.000	0.000
.Communicate.3n	0.000				0.000	0.000
.CnflctMngmnt.3	0.000				0.000	0.000
.RghtPrtnr_Bf.3	0.000				0.000	0.000

	D.C. 0	0.000				0.000	0 000
	r_Bfr.3	0.000				0.000	0.000
	shp_Bf.3	0.000				0.000	0.000
	gns_Bf.3	0.000				0.000	0.000
•	rtnr.3n	0.000				0.000	0.000
	rtnr.3n	0.000				0.000	0.000
	nshp.3n	0.000				0.000	0.000
-	Sgns.3n	0.000				0.000	0.000
	mgU_B.3	0.000				0.000	0.000
	shp_B.3	0.000				0.000	0.000
_	Prnt_B.3	0.000				0.000	0.000
_	sAL_B.3	0.000				0.000	0.000
	ngUp.3n	0.000				0.000	0.000
	shps.3n	0.000				0.000	0.000
•	rnts.3n	0.000				0.000	0.000
-	sArLk.3	0.000				0.000	0.000
_	Befr.3n	0.000				0.000	0.000
_	t_Bfr.3	0.000				0.000	0.000
_	lrng_B.3	0.000				0.000	0.000
.Fights.		0.000				0.000	0.000
-	gsHrt.3n	0.000				0.000	0.000
.kightho	lWrng.3n	0.000				0.000	0.000
Therealder							
Thresholds:		Patimata	C+ -1 E		D(> -)	C+ 1 1	C+3 -11
ם מנו	(111+1)	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
H_R_B.	(V1t1)	0.828	0.439	1.886	0.059	0.828	0.310
H_R_B.	(V1t2)	4.533	1.493	3.036	0.002	4.533	1.695
H_R.3	(V1t1)	0.828	0.439	1.886	0.059	0.828	0.413
H_R.3	(V1t2)	4.533	1.493	3.036	0.002	4.533	2.260
C_B.3	(V2t1)	0.264	0.192	1.377	0.168	0.264	0.170
C_B.3	(V2T1)	2.494	0.369	6.767	0.000	2.494	1.607
Cm.3 1 Cm.3 2	(V2t1) (V2T2)	0.264 0.770	0.192 0.592	1.377 1.299	0.168 0.194	0.264 0.770	0.834 2.429
-	(V3t1)						
CM_B.3	(V3T1)		0.676	5.199 2.402	0.000	3.516	1.695
CM.3 1	(V3t1)	1.753	0.288		0.016	0.692	0.917 2.324
CM.3 2	(V3T2) (V4t1)		0.788	2.225	0.026	1.753 -0.634	
RP_B.3	(V4t1) (V4t2)	-0.634	0.132	-4.809 6.218	0.000		-0.604
RP_B.3 RP.3 1		1.118 -0.634	0.180		0.000	1.118	1.065
	(V4t1)		0.132 0.180	-4.809	0.000	-0.634	-0.497
RP.3 2		1.118		6.218	0.000	1.118	
LP_B.3			0.130	-13.690	0.000	-1.782	-0.980
LP_B.3	(V5T1)	1.201	0.618	1.942	0.052	1.201	0.661
LP.3 1	(V5t1)	-1.782 1.406	0.130	-13.690	0.000	-1.782 1.406	-0.809
LP.3 2	(V5T2)	1.496	0.317	4.718	0.000	1.496	0.679
PR_B.3	(V6t1)	-1.406	0.197	-7.120	0.000	-1.406	-0.822
PR_B.3	(V6T1)	0.934	0.715	1.307	0.191	0.934	0.546
PR.3 1	(V6t1)	-1.406	0.197	-7.120	0.000	-1.406	
PR.3 2	(V6T2)	1.987	0.461	4.310	0.000	1.987	0.796

	WS_B.3 (V7t1)	-1.903	0.132	-14.371	0.000	-1.903	-0.981
	WS_B.3 (V7T1)	1.188	0.651	1.825	0.068	1.188	0.612
	WS.3 1 (V7t1)	-1.903	0.132	-14.371	0.000	-1.903	-0.894
	WS.3 2 (V7T2)	1.689	0.408	4.142	0.000	1.689	0.793
	LGU_B. (V8t1)	-0.683	0.120	-5.677	0.000	-0.683	-0.633
	LGU_B. (V8t2)	0.595	0.093	6.378	0.000	0.595	0.552
	LGU.3 (V8t1)	-0.683	0.120	-5.677	0.000	-0.683	-0.726
	LGU.3 (V8t2)	0.595	0.093	6.378	0.000	0.595	0.633
	PR_B.3 (V9t1)	-1.071	0.171	-6.271	0.000	-1.071	-0.582
	PR_B.3 (V9T1)	0.855	0.322	2.652	0.008	0.855	0.464
	PR.3 1 (V9t1)	-1.071	0.171	-6.271	0.000	-1.071	-0.714
	PR.3 2 (V9T2)	0.693	0.188	3.685	0.000	0.693	0.462
	GAP_B. (V101)	-1.166	0.136	-8.563	0.000	-1.166	-0.696
	GAP_B. (V10T1)	0.130	0.248	0.525	0.600	0.130	0.078
	GAP.3 (V101)	-1.166	0.136	-8.563	0.000	-1.166	-0.614
	GAP.3 (V10T2)	1.152	0.204	5.652	0.000	1.152	0.607
	FAL_B. (V111)	-1.267	0.116	-10.932	0.000	-1.267	-0.734
	FAL_B. (V11T1)	0.234	0.250	0.936	0.349	0.234	0.136
	FAL.3 (V111)	-1.267	0.116	-10.932	0.000	-1.267	-0.634
	FAL.3 (V11T2)	1.220	0.200	6.098	0.000	1.220	0.610
	F_B.3 (V121)	-0.726	0.103	-7.022	0.000	-0.726	-0.699
	F_B.3 (V122)	0.330	0.103	3.195	0.001	0.330	0.318
	Fg.3 1 (V121)	-0.726	0.103	-7.022	0.000	-0.726	-0.715
	Fg.3 2 (V122)	0.330	0.103	3.195	0.001	0.330	0.325
	FH_B.3 (V131)	-1.674	0.103	-16.204	0.000	-1.674	-0.887
	FH_B.3 (V13T1)	0.707	0.223	3.173	0.002	0.707	0.375
	FH.3 1 (V131)	-1.674	0.103	-16.204	0.000	-1.674	-1.109
	FH.3 2 (V13T2)	0.316	0.168	1.877	0.060	0.316	0.209
	RW_B.3 (V141)	-1.688	0.112	-15.110	0.000	-1.688	-1.021
	RW_B.3 (V14T1)	0.345	0.220	1.570	0.116	0.345	0.209
	RW.3 1 (V141)	-1.688	0.112	-15.110	0.000	-1.688	-0.944
	RW.3 2 (V14T2)	0.345	0.207	1.668	0.095	0.345	0.193
Vai	riances:						
		Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
	HRS.rpre	6.153	4.373	1.407	0.159	1.000	1.000
	HRS.post	3.065	2.254	1.360	0.174	1.000	1.000
	PS.rpre	0.830	0.297	2.799	0.005	1.000	1.000
	PS.post	1.052	0.287	3.664	0.000	1.000	1.000
	PRB.rpre	0.937	0.223	4.196	0.000	1.000	1.000
	PRB.post	0.594	0.158	3.771	0.000	1.000	1.000
	RBA.rpre	0.622	0.184	3.379	0.001	1.000	1.000
	RBA.post	0.723	0.197	3.671	0.000	1.000	1.000
	.Hlthy_Rl_Bfr.3	1.000				1.000	0.140
	.Commnct_Bfr.3n	1.000				1.000	0.415
	.CnflctMngm_B.3	1.000				1.000	0.232
	.RghtPrtnr_Bf.3	0.271	0.114	2.377	0.017	0.271	0.246
	.LrnPrtnr_Bfr.3	0.265	0.242	1.096	0.273	0.265	0.080

.PcRltnshp_Bf.3	0.439	0.350	1.252	0.211	0.439	0.150
.WrnngSgns_Bf.3	0.864	0.451	1.915	0.055	0.864	0.230
$. LrndGrwngU_B.3$	0.227	0.070	3.228	0.001	0.227	0.195
$. {\tt PstRltnshp_B.3}$	1.332	0.261	5.114	0.000	1.332	0.393
.GtAlngPrnt_B.3	0.714	0.308	2.316	0.021	0.714	0.254
.FrndshpsAL_B.3	0.514	0.191	2.687	0.007	0.514	0.173
.Fights_Befr.3n	0.459	0.162	2.831	0.005	0.459	0.424
.FlngsHrt_Bfr.3	1.145	0.224	5.104	0.000	1.145	0.322
.RghtndWrng_B.3	0.928	0.260	3.571	0.000	0.928	0.340
.Healthy_Rel.3n	0.957	0.644	1.486	0.137	0.957	0.238
.Communicate.3n	0.017	0.028	0.617	0.538	0.017	0.171
.CnflctMngmnt.3	0.201	0.209	0.964	0.335	0.201	0.354
.RightPartnr.3n	0.573	0.163	3.519	0.000	0.573	0.353
.LearnPartnr.3n	0.528	0.222	2.377	0.017	0.528	0.109
.PaceRltnshp.3n	0.935	0.339	2.756	0.006	0.935	0.150
.WarningSgns.3n	0.132	0.185	0.718	0.473	0.132	0.029
.LrndGrwngUp.3n	0.291	0.092	3.164	0.002	0.291	0.328
.PstRltnshps.3n	0.383	0.148	2.587	0.010	0.383	0.170
.GtAlngPrnts.3n	0.917	0.225	4.078	0.000	0.917	0.254
.FrndshpsArLk.3	0.656	0.137	4.776	0.000	0.656	0.164
.Fights.3n	0.309	0.084	3.668	0.000	0.309	0.299
.FeelingsHrt.3n	0.646	0.239	2.708	0.007	0.646	0.284
.RightndWrng.3n	0.483	0.178	2.708	0.007	0.483	0.151
0 0						
Scales v*:						
Scales y*:	Fstimate	Std Frr	7-W2] 11A	P(>)	Std lv	Std all
•	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
Hlthy_Rl_Bfr.3	0.374	Std.Err	z-value	P(> z)	0.374	1.000
Hlthy_Rl_Bfr.3 Commnct_Bfr.3n	0.374 0.644	Std.Err	z-value	P(> z)	0.374 0.644	1.000 1.000
Hlthy_Rl_Bfr.3 Commnct_Bfr.3n CnflctMngm_B.3	0.374 0.644 0.482	Std.Err	z-value	P(> z)	0.374 0.644 0.482	1.000 1.000 1.000
Hlthy_Rl_Bfr.3 Commnct_Bfr.3n CnflctMngm_B.3 Healthy_Rel.3n	0.374 0.644 0.482 0.499	Std.Err	z-value	P(> z)	0.374 0.644 0.482 0.499	1.000 1.000 1.000 1.000
Hlthy_Rl_Bfr.3 Commnct_Bfr.3n CnflctMngm_B.3 Healthy_Rel.3n Communicate.3n	0.374 0.644 0.482 0.499 3.157	Std.Err	z-value	P(> z)	0.374 0.644 0.482 0.499 3.157	1.000 1.000 1.000 1.000
Hlthy_Rl_Bfr.3 Commnct_Bfr.3n CnflctMngm_B.3 Healthy_Rel.3n Communicate.3n CnflctMngmnt.3	0.374 0.644 0.482 0.499 3.157 1.326	Std.Err	z-value	P(> z)	0.374 0.644 0.482 0.499 3.157 1.326	1.000 1.000 1.000 1.000 1.000
Hlthy_Rl_Bfr.3 Commnct_Bfr.3n CnflctMngm_B.3 Healthy_Rel.3n Communicate.3n CnflctMngmnt.3 RghtPrtnr_Bf.3	0.374 0.644 0.482 0.499 3.157 1.326 0.953	Std.Err	z-value	P(> z)	0.374 0.644 0.482 0.499 3.157 1.326 0.953	1.000 1.000 1.000 1.000 1.000 1.000
Hlthy_Rl_Bfr.3 Commnct_Bfr.3n CnflctMngm_B.3 Healthy_Rel.3n Communicate.3n CnflctMngmnt.3 RghtPrtnr_Bf.3 LrnPrtnr_Bfr.3	0.374 0.644 0.482 0.499 3.157 1.326 0.953 0.550	Std.Err	z-value	P(> z)	0.374 0.644 0.482 0.499 3.157 1.326 0.953 0.550	1.000 1.000 1.000 1.000 1.000 1.000 1.000
Hlthy_Rl_Bfr.3 Commnct_Bfr.3n CnflctMngm_B.3 Healthy_Rel.3n Communicate.3n CnflctMngmnt.3 RghtPrtnr_Bf.3 LrnPrtnr_Bfr.3 PcRltnshp_Bf.3	0.374 0.644 0.482 0.499 3.157 1.326 0.953 0.550 0.585	Std.Err	z-value	P(> z)	0.374 0.644 0.482 0.499 3.157 1.326 0.953 0.550 0.585	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
Hlthy_Rl_Bfr.3 Commnct_Bfr.3n CnflctMngm_B.3 Healthy_Rel.3n Communicate.3n CnflctMngmnt.3 RghtPrtnr_Bf.3 LrnPrtnr_Bfr.3 PcRltnshp_Bf.3 WrnngSgns_Bf.3	0.374 0.644 0.482 0.499 3.157 1.326 0.953 0.550 0.585 0.515	Std.Err	z-value	P(> z)	0.374 0.644 0.482 0.499 3.157 1.326 0.953 0.550 0.585	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
Hlthy_Rl_Bfr.3 Commnct_Bfr.3n CnflctMngm_B.3 Healthy_Rel.3n Communicate.3n CnflctMngmnt.3 RghtPrtnr_Bf.3 LrnPrtnr_Bfr.3 PcRltnshp_Bf.3 WrnngSgns_Bf.3 RightPartnr.3n	0.374 0.644 0.482 0.499 3.157 1.326 0.953 0.550 0.585 0.515	Std.Err	z-value	P(> z)	0.374 0.644 0.482 0.499 3.157 1.326 0.953 0.550 0.585 0.515	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
Hlthy_Rl_Bfr.3 Commnct_Bfr.3n CnflctMngm_B.3 Healthy_Rel.3n Communicate.3n CnflctMngmnt.3 RghtPrtnr_Bf.3 LrnPrtnr_Bfr.3 PcRltnshp_Bf.3 WrnngSgns_Bf.3 RightPartnr.3n LearnPartnr.3n	0.374 0.644 0.482 0.499 3.157 1.326 0.953 0.550 0.585 0.515 0.784 0.454	Std.Err	z-value	P(> z)	0.374 0.644 0.482 0.499 3.157 1.326 0.953 0.550 0.585 0.515 0.784 0.454	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
Hlthy_Rl_Bfr.3 Commnct_Bfr.3n CnflctMngm_B.3 Healthy_Rel.3n Communicate.3n CnflctMngmnt.3 RghtPrtnr_Bf.3 LrnPrtnr_Bfr.3 PcRltnshp_Bf.3 WrnngSgns_Bf.3 RightPartnr.3n LearnPartnr.3n PaceRltnshp.3n	0.374 0.644 0.482 0.499 3.157 1.326 0.953 0.550 0.585 0.515 0.784 0.454 0.401	Std.Err	z-value	P(> z)	0.374 0.644 0.482 0.499 3.157 1.326 0.953 0.550 0.585 0.515 0.784 0.454 0.401	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
Hlthy_Rl_Bfr.3 Commnct_Bfr.3n CnflctMngm_B.3 Healthy_Rel.3n Communicate.3n CnflctMngmnt.3 RghtPrtnr_Bf.3 LrnPrtnr_Bfr.3 PcRltnshp_Bf.3 WrnngSgns_Bf.3 RightPartnr.3n LearnPartnr.3n PaceRltnshp.3n WarningSgns.3n	0.374 0.644 0.482 0.499 3.157 1.326 0.953 0.550 0.585 0.515 0.784 0.454 0.401 0.470	Std.Err	z-value	P(> z)	0.374 0.644 0.482 0.499 3.157 1.326 0.953 0.550 0.585 0.515 0.784 0.454 0.401 0.470	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
Hlthy_Rl_Bfr.3 Commnct_Bfr.3n CnflctMngm_B.3 Healthy_Rel.3n Communicate.3n CnflctMngmnt.3 RghtPrtnr_Bf.3 LrnPrtnr_Bfr.3 PcRltnshp_Bf.3 WrnngSgns_Bf.3 RightPartnr.3n LearnPartnr.3n PaceRltnshp.3n WarningSgns.3n LrndGrwngU_B.3	0.374 0.644 0.482 0.499 3.157 1.326 0.953 0.550 0.585 0.515 0.784 0.454 0.401 0.470 0.927	Std.Err	z-value	P(> z)	0.374 0.644 0.482 0.499 3.157 1.326 0.953 0.550 0.585 0.515 0.784 0.454 0.401 0.470 0.927	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
Hlthy_Rl_Bfr.3 Commnct_Bfr.3n CnflctMngm_B.3 Healthy_Rel.3n Communicate.3n CnflctMngmnt.3 RghtPrtnr_Bf.3 LrnPrtnr_Bfr.3 PcRltnshp_Bf.3 WrnngSgns_Bf.3 RightPartnr.3n LearnPartnr.3n PaceRltnshp.3n WarningSgns.3n LrndGrwngU_B.3 PstRltnshp_B.3	0.374 0.644 0.482 0.499 3.157 1.326 0.953 0.550 0.585 0.515 0.784 0.454 0.401 0.470 0.927 0.543	Std.Err	z-value	P(> z)	0.374 0.644 0.482 0.499 3.157 1.326 0.953 0.550 0.585 0.515 0.784 0.454 0.401 0.470 0.927 0.543	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
Hlthy_Rl_Bfr.3 Commnct_Bfr.3n CnflctMngm_B.3 Healthy_Rel.3n Communicate.3n CnflctMngmnt.3 RghtPrtnr_Bf.3 LrnPrtnr_Bfr.3 PcRltnshp_Bf.3 WrnngSgns_Bf.3 RightPartnr.3n LearnPartnr.3n PaceRltnshp.3n WarningSgns.3n LrndGrwngU_B.3 PstRltnshp_B.3 GtAlngPrnt_B.3	0.374 0.644 0.482 0.499 3.157 1.326 0.953 0.550 0.585 0.515 0.784 0.454 0.401 0.470 0.927 0.543 0.597	Std.Err	z-value	P(> z)	0.374 0.644 0.482 0.499 3.157 1.326 0.953 0.550 0.585 0.515 0.784 0.401 0.470 0.927 0.543 0.597	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
Hlthy_Rl_Bfr.3 Commnct_Bfr.3n CnflctMngm_B.3 Healthy_Rel.3n Communicate.3n CnflctMngmnt.3 RghtPrtnr_Bf.3 LrnPrtnr_Bfr.3 PcRltnshp_Bf.3 WrnngSgns_Bf.3 RightPartnr.3n LearnPartnr.3n PaceRltnshp.3n WarningSgns.3n LrndGrwngU_B.3 PstRltnshp_B.3 GtAlngPrnt_B.3 FrndshpsAL_B.3	0.374 0.644 0.482 0.499 3.157 1.326 0.953 0.550 0.585 0.515 0.784 0.454 0.401 0.470 0.927 0.543 0.597 0.579	Std.Err	z-value	P(> z)	0.374 0.644 0.482 0.499 3.157 1.326 0.953 0.550 0.585 0.515 0.784 0.454 0.401 0.470 0.927 0.543 0.579	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
Hlthy_Rl_Bfr.3 Commnct_Bfr.3n CnflctMngm_B.3 Healthy_Rel.3n Communicate.3n CnflctMngmnt.3 RghtPrtnr_Bf.3 LrnPrtnr_Bfr.3 PcRltnshp_Bf.3 WrnngSgns_Bf.3 RightPartnr.3n LearnPartnr.3n PaceRltnshp.3n WarningSgns.3n LrndGrwngU_B.3 PstRltnshp_B.3 GtAlngPrnt_B.3 FrndshpsAL_B.3 LrndGrwngUp.3n	0.374 0.644 0.482 0.499 3.157 1.326 0.953 0.550 0.585 0.515 0.784 0.454 0.401 0.470 0.927 0.543 0.597 0.579 1.063	Std.Err	z-value	P(> z)	0.374 0.644 0.482 0.499 3.157 1.326 0.953 0.550 0.585 0.515 0.784 0.454 0.401 0.470 0.927 0.543 0.597 0.579 1.063	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
Hlthy_Rl_Bfr.3 Commnct_Bfr.3n CnflctMngm_B.3 Healthy_Rel.3n Communicate.3n CnflctMngmnt.3 RghtPrtnr_Bf.3 LrnPrtnr_Bfr.3 PcRltnshp_Bf.3 WrnngSgns_Bf.3 RightPartnr.3n LearnPartnr.3n PaceRltnshp.3n WarningSgns.3n LrndGrwngU_B.3 PstRltnshp_B.3 GtAlngPrnt_B.3 FrndshpsAL_B.3 LrndGrwngUp.3n PstRltnshps.3n	0.374 0.644 0.482 0.499 3.157 1.326 0.953 0.550 0.585 0.515 0.784 0.401 0.470 0.927 0.543 0.597 0.579 1.063 0.667	Std.Err	z-value	P(> z)	0.374 0.644 0.482 0.499 3.157 1.326 0.953 0.550 0.585 0.515 0.784 0.401 0.470 0.927 0.543 0.597 0.579 1.063 0.667	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
Hlthy_Rl_Bfr.3 Commnct_Bfr.3n CnflctMngm_B.3 Healthy_Rel.3n Communicate.3n CnflctMngmnt.3 RghtPrtnr_Bf.3 LrnPrtnr_Bfr.3 PcRltnshp_Bf.3 WrnngSgns_Bf.3 RightPartnr.3n LearnPartnr.3n PaceRltnshp.3n WarningSgns.3n LrndGrwngU_B.3 PstRltnshp_B.3 GtAlngPrnt_B.3 FrndshpsAL_B.3 LrndGrwngUp.3n	0.374 0.644 0.482 0.499 3.157 1.326 0.953 0.550 0.585 0.515 0.784 0.454 0.401 0.470 0.927 0.543 0.597 0.579 1.063	Std.Err	z-value	P(> z)	0.374 0.644 0.482 0.499 3.157 1.326 0.953 0.550 0.585 0.515 0.784 0.454 0.401 0.470 0.927 0.543 0.597 0.579 1.063	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

${ t Fights_Befr.3n}$	0.962	0.96	1.000
FlngsHrt_Bfr.3	0.530	0.53	30 1.000
RghtndWrng_B.3	0.605	0.60	1.000
Fights.3n	0.985	0.98	1.000
FeelingsHrt.3n	0.662	0.66	1.000
RightndWrng.3n	0.559	0.5	59 1.000

6.4.2 Modification Indices

```
Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star variables involved are: HRS.post PS.post
```

Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: starture variables involved are: LearnPartner_Before.3n LearnPartner.3n

Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: start variables involved are: PaceRelationship_Before.3n PaceRelationship.3n

Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: start variables involved are: WarningSigns_Before.3n WarningSigns.3n

Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: start variables involved are: PastRelationships_Before.3n PastRelationships.3n

Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: start variables involved are: FriendshipsAreLike_Before.3n FriendshipsAreLike.3n

```
rhs
               RBA.post =~
                                      LearnPartner.3n 128.60732
1
2
  ConflictManagement.3n ~~
                                      RightPartner.3n 38.47565
3
         Healthy_Rel.3n ~~
                                  PaceRelationship.3n
                                                       21.36243
4
         Communicate.3n ~~
                                      WarningSigns.3n 16.69375
5
               PRB.post =~
                                ConflictManagement.3n 15.25028
6
         Healthy_Rel.3n ~~
                                      WarningSigns.3n
                                                       14.48046
7
               PRB.rpre =~
                                 PastRelationships.3n
                                                      13.36491
8
               RBA.post =~
                                  PaceRelationship.3n
                                                       12.32753
9
               RBA.rpre =~
                                 PastRelationships.3n
                                                       11.53314
10
               PRB.post =~ PaceRelationship_Before.3n
                                                       10.30036
11
               RBA.post =~ PaceRelationship_Before.3n
                                                       10.13581
                sepc.lv
                          sepc.all
                                     sepc.nox
         ерс
1 12.2734741 10.4369327 4.7411251 4.7411251
2
   0.4037191 0.4037191 1.1885515 1.1885515
3
   1.9049583 1.9049583 2.0143716 2.0143716
4
   0.3023812  0.3023812  6.3522242  6.3522242
5
  0.7159293 0.5518786 0.7317951 0.7317951
6
   1.5269484 1.5269484 4.2893335 4.2893335
7
 -0.3525530 -0.3413244 -0.2275727 -0.2275727
8
   1.8261872 1.5529256 0.6220974 0.6220974
9 -0.3857497 -0.3042325 -0.2028422 -0.2028422
10 0.3955436 0.3049073 0.1782226 0.1782226
11 0.3432434 0.2918821 0.1706092 0.1706092
```

6.4.3 Loading Invariant

Warning in law_object_post_check(object): lavaan WARNING: covariance matrix of latent variable is not positive definite;
use inspect(fit, "cov.lv") to investigate.

lavaan (0.6-1) converged normally after 168 iterations

		Used	Total	
Number of observations		111	134	
Estimator		DWLS	Robust	
Model Fit Test Statistic	2	22.321	349.465	
Degrees of freedom		304	304	
P-value (Chi-square)		1.000	0.037	
Scaling correction factor			1.415	
Shift parameter			192.343	
for simple second-order correction (Mplus va	riant)		
Model test baseline model:				
Minimum Function Test Statistic	186	02.907	4580.137	
Degrees of freedom		378	378	
P-value		0.000	0.000	
User model versus baseline model:				
Comparative Fit Index (CFI)		1.000	0.989	
Tucker-Lewis Index (TLI)		1.006	0.987	
Robust Comparative Fit Index (CFI)			NA	
Robust Tucker-Lewis Index (TLI)			NA	
Root Mean Square Error of Approximation:				
RMSEA		0.000	0.037	
90 Percent Confidence Interval	0.000	0.000	0.010	0.054
P-value RMSEA <= 0.05		1.000	0.896	
Robust RMSEA			NA	
90 Percent Confidence Interval			NA	NA
Standardized Root Mean Square Residual:				

Parameter Estimates:

SRMR

0.079

0.079

Information Expected
Information saturated (h1) model Unstructured
Standard Errors Robust.sem

Latent Variables:

Laveiro Variab	100.	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
HRS.rpre =~							
H_R_B.3		1.000				2.552	0.931
Cmm_B.3	(V2L)	0.464	0.205	2.262	0.024	1.184	0.764
$CnM_B.3$	(V3L)	0.704	0.312	2.259	0.024	1.796	0.874
HRS.post =~							
Hlt_R.3		1.000				2.211	0.878
Cmmnc.3	(V2L)	0.464	0.205	2.262	0.024	1.026	0.909
CnflM.3	(A3T)	0.704	0.312	2.259	0.024	1.556	0.801
PS.rpre =~							
RgP_B.3	(V4L)	1.000				0.917	0.869
LrP_B.3	(V5L)	1.921	0.152	12.607	0.000	1.761	0.959
PcR_B.3	(V6L)	1.924	0.140	13.779	0.000	1.764	0.921
WrS_B.3	(V7L)	1.871	0.185	10.111	0.000	1.715	0.878
PS.post =~							
RghtP.3	(V4L)	1.000				1.080	0.806
LrnPr.3	(V5L)	1.921	0.152	12.607	0.000	2.074	0.944
PcRlt.3	(V6L)	1.924	0.140	13.779	0.000	2.078	0.921
WrnnS.3	(V7L)	1.871	0.185	10.111	0.000	2.020	0.985
PRB.rpre =~							
LGU_B.3	(V8L)	1.000				0.866	0.897
PsR_B.3	(V9L)	1.417	0.123	11.539	0.000	1.226	0.779
GAP_B.3 (V10L)	1.777	0.102	17.424	0.000	1.538	0.863
FAL_B.3 (V11L)	2.022	0.100	20.257	0.000	1.751	0.910
PRB.post =~							
LrnGU.3	(A8L)	1.000				0.781	0.823
PstR1.3	(V9L)	1.417	0.123	11.539	0.000	1.107	0.912
GtAlP.3 (V10L)	1.777	0.102	17.424	0.000	1.388	0.862
FrnAL.3 (V11L)	2.022	0.100	20.257	0.000	1.579	0.913
RBA.rpre =~							
Fgh_B.3 (V12L)	1.000				0.834	0.759
F1H_B.3 (V13L)	1.733	0.144	12.023	0.000	1.445	0.822
RgW_B.3 (1.711	0.145	11.794	0.000	1.427	0.814
RBA.post =~							
Fghts.3 (1.000				0.877	0.836
FlngH.3 (1.733	0.144	12.023	0.000	1.520	0.851
RghtW.3 (V14L)	1.711	0.145	11.794	0.000	1.501	0.918

Covariances:

	Estimate	Std.Err	z-value	P(> z)
HRS.rpre ~~				
HRS.post	0.830	0.891	0.931	0.352
PS.rpre	1.850	0.634	2.918	0.004

PS.post	0.187	0.313	0.596	0.551
PRB.rpre	1.318	0.465	2.832	0.005
PRB.post	-0.222	0.244	-0.908	0.364
RBA.rpre	1.369	0.470	2.911	0.004
RBA.post	0.213	0.284	0.752	0.452
HRS.post ~~				
PS.rpre	-0.059	0.232	-0.253	0.801
PS.post	2.431	0.860	2.828	0.005
PRB.rpre	0.442	0.262	1.689	0.091
PRB.post	1.203	0.512	2.350	0.019
RBA.rpre	0.393	0.253	1.553	0.120
RBA.post	1.655	0.622	2.661	0.008
PS.rpre ~~				
PS.post	0.008	0.116	0.072	0.943
PRB.rpre	0.438	0.131	3.343	0.001
PRB.post	-0.062	0.086	-0.715	0.474
RBA.rpre	0.427	0.152	2.809	0.005
RBA.post	0.019	0.108	0.174	0.862
PS.post ~~				
PRB.rpre	0.209	0.114	1.825	0.068
PRB.post	0.592	0.143	4.152	0.000
RBA.rpre	0.121	0.110	1.102	0.271
RBA.post	0.777	0.173	4.481	0.000
PRB.rpre ~~				
PRB.post	0.272	0.082	3.310	0.001
RBA.rpre	0.676	0.158	4.290	0.000
RBA.post	0.260	0.093	2.814	0.005
PRB.post ~~				
RBA.rpre	0.131	0.075	1.747	0.081
RBA.post	0.643	0.140	4.581	0.000
RBA.rpre ~~				
RBA.post	0.233	0.090	2.583	0.010
.Healthy_Rel_Before.3n ~~				
$. {\tt Healthy_Rel.3n}$	0.955	0.819	1.166	0.244
.Communicate_Before.3n ~~				
.Communicate.3n	0.343	0.183	1.872	0.061
.ConflictManagement_Before.3n ~~				
.CnflctMngmnt.3	0.529	0.364	1.450	0.147
.RightPartner_Before.3n ~~				
.RightPartnr.3n	0.048	0.147	0.324	0.746
.LearnPartner_Before.3n ~~				
.LearnPartnr.3n	0.529	0.320	1.657	0.098
.PaceRelationship_Before.3n ~~				
.PaceRltnshp.3n	0.677	0.400	1.692	0.091
.WarningSigns_Before.3n ~~				
.WarningSgns.3n	0.334	0.334	0.999	0.318
.LearnedGrowingUp_Before.3n ~~				
.LrndGrwngUp.3n	0.042	0.093	0.446	0.656

PagtRolat	tionships_Before.3n ~~				
	nshps.3n	0.533	0.205	2.601	0.009
	Parents_Before.3n ~~		5.200	2.001	2.000
_	Prnts.3n	0.326	0.227	1.437	0.151
_	ipsAreLike_Before.3n ~~				
	psArLk.3	0.788	0.261	3.017	0.003
.Fights_B	efore.3n ~~				
.Fights	.3n	0.254	0.115	2.201	0.028
•	Hurt_Before.3n ~~				
	gsHrt.3n	0.545	0.321	1.701	0.089
•	Wrong_Before.3n ~~				
_	dWrng.3n	0.610	0.242	2.522	0.012
Std.lv	Std.all				
0 447	0.447				
0.147	0.147				
0.791	0.791				
0.068	0.068				
0.597	0.597				
-0.111	-0.111				
0.643	0.643				
0.095	0.095				
-0.029	-0.029				
1.018	1.018				
0.231	0.231				
0.697	0.697				
0.213	0.213				
0.854	0.854				
0.008	0.008				
0.551	0.551				
-0.086	-0.086				
0.558	0.558				
0.023	0.023				
0.223	0.223				
0.702	0.702				
0.135	0.135				
0.821	0.821				
0.402	0.402				
0.937	0.937				
0.343	0.343				
0.201	0.201				
0.939	0.939				
0.319	0.319				

0.955	0.790
0.343	0.731
0.529	0.454
0.048	0.115
0.529	1.412
0.677	1.027
0.334	1.020
0.042	0.182
0.533	1.083
0.326	0.443
0.788	1.394
0.254	0.616
0.545	0.581
0.610	0.925

rtercepts:						
	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
HRS.rpre	0.000				0.000	0.000
HRS.post	4.779	1.733	2.757	0.006	2.162	2.162
PS.rpre	-1.326	0.205	-6.460	0.000	-1.446	-1.446
PS.post	1.127	0.203	5.556	0.000	1.044	1.044
PRB.rpre	-0.701	0.102	-6.888	0.000	-0.810	-0.810
PRB.post	0.704	0.118	5.977	0.000	0.901	0.901
RBA.rpre	-0.576	0.101	-5.692	0.000	-0.691	-0.691
RBA.post	0.805	0.141	5.710	0.000	0.918	0.918
.Hlthy_Rl_Bfr.3	0.000				0.000	0.000
.Commnct_Bfr.3n	0.000				0.000	0.000
$.CnflctMngm_B.3$	0.000				0.000	0.000
.Healthy_Rel.3n	0.000				0.000	0.000
.Communicate.3n	0.000				0.000	0.000
$. {\tt CnflctMngmnt.3}$	0.000				0.000	0.000
.RghtPrtnr_Bf.3	0.000				0.000	0.000
.LrnPrtnr_Bfr.3	0.000				0.000	0.000
.PcRltnshp_Bf.3	0.000				0.000	0.000

Nernggggs_Bf.3 0.000 0.0								
LearnPartnr 3n 0.000 0			0.000				0.000	0.000
PaceRltmshp.3n	_							
NamningSgns.3n								
LrndGrungU_B.3		-						
PstRltnshp_B.3	$. exttt{Warning}$	Sgns.3n	0.000				0.000	0.000
GtAlngPrnt_B.3		-	0.000				0.000	0.000
FrndshpsAL_B.3 0.000 0.	.PstRltn	shp_B.3	0.000				0.000	0.000
LrndGrwngUp.3n	$.{ t GtAlngP}$	rnt_B.3	0.000				0.000	0.000
.PstRltnshps.3n 0.000 0.000 0.000 0.000 0.000 0.000 .GtAlngPrnts.3n 0.000 0.000 0.000 0.000 0.000 .FindshpsArlk.3 0.000 0.000 0.000 0.000 0.000 .Fights_Befr.3n 0.000 0.000 0.000 0.000 0.000 .Fights.3n 0.000 0.000 0.000 0.000 0.000 .Fights.3n 0.000 0.000 0.000 0.000 0.000 .RightndWrng.3n 0.000 0.000 0.000 0.000 .RightndWrng.3n 0.000 0.408 1.581 0.114 0.644 0.235 H_R_B. (Vit1) 0.644 0.408 1.581 0.114 0.644 0.235 H_R_B. (Vit2) 4.594 1.596 2.879 0.004 4.594 1.676 H_R.3l (Vit1) 0.644 0.408 1.581 0.114 0.644 0.256 H_R.B. (Vit2) 4.594	.Frndshp	sAL_B.3	0.000				0.000	0.000
GtAlngPrnts.3n 0.000 0.	.LrndGrw	ngUp.3n	0.000				0.000	0.000
FrndshpsArlk.3 0.000 0.000	.PstRltn	shps.3n	0.000				0.000	0.000
Fights_Befr.3n 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.	.GtAlngP	rnts.3n	0.000				0.000	0.000
FligsHrt_Bfr.3	.Frndshp	sArLk.3	0.000				0.000	0.000
FligsHrt_Bfr.3	_		0.000				0.000	0.000
RghtndWrng_B.3	_		0.000				0.000	0.000
Fights.3n	_							
NeelingsHrt.3n 0.000 0.	_	_						
Rightndwrng.3n 0.000 Std.Err Z-value P(> z) Std.lv Std.all	_							
Thresholds: Estimate Std.Err z-value P(> z) Std.lv Std.all	_							
Estimate Std.Err z-value P(> z) Std.lv Std.all H_R_B.	.1128110110		0.000				0.000	0.000
Estimate Std.Err z-value P(> z) Std.lv Std.all H_R_B.	Thresholds:							
H_R_B. (V1t1) 0.644 0.408 1.581 0.114 0.644 0.235 H_R_B. (V1t2) 4.594 1.596 2.879 0.004 4.594 1.676 H_R.3 (V1t1) 0.644 0.408 1.581 0.114 0.644 0.256 H_R.3 (V1t2) 4.594 1.596 2.879 0.004 4.594 1.824 C_B.3 (V2t1) 0.322 0.176 1.829 0.067 0.322 0.208 C_B.3 (V2T1) 2.490 0.367 6.778 0.000 2.490 1.607 Cm.3 1 (V2t1) 0.322 0.176 1.829 0.067 0.322 0.286 Cm.3 2 (V2T2) 2.204 0.436 5.053 0.000 2.204 1.955 CM_B.3 (V3t1) 0.795 0.294 2.706 0.007 0.795 0.387 CM_B.3 (V3t1) 0.795 0.294 2.706 0.007 0.795 0.409	ini obnorab.		Estimate	Std Err	7-value	P(> z)	Std lv	Std all
H_R_B. (V1t2) 4.594 1.596 2.879 0.004 4.594 1.676 H_R.3 (V1t1) 0.644 0.408 1.581 0.114 0.644 0.256 H_R.3 (V1t2) 4.594 1.596 2.879 0.004 4.594 1.824 C_B.3 (V2t1) 0.322 0.176 1.829 0.067 0.322 0.208 C_B.3 (V2t1) 0.322 0.176 1.829 0.067 0.322 0.286 Cm.3 1 (V2t1) 0.322 0.176 1.829 0.067 0.322 0.286 Cm.3 2 (V2T2) 2.204 0.436 5.053 0.000 2.204 1.955 CM_B.3 (V3t1) 0.795 0.294 2.706 0.007 0.795 0.387 CM_B.3 (V3t1) 0.795 0.294 2.706 0.007 0.795 0.409 CM.3 1 (V3t1) 0.795 0.294 2.706 0.007 0.795 0.409	нвв	(V1+1)						
H_R.3 (V1t1) 0.644 0.408 1.581 0.114 0.644 0.256 H_R.3 (V1t2) 4.594 1.596 2.879 0.004 4.594 1.824 C_B.3 (V2t1) 0.322 0.176 1.829 0.067 0.322 0.208 C_B.3 (V2t1) 2.490 0.367 6.778 0.000 2.490 1.607 Cm.3 1 (V2t1) 0.322 0.176 1.829 0.067 0.322 0.286 Cm.3 2 (V2T2) 2.204 0.436 5.053 0.000 2.204 1.955 CM_B.3 (V3t1) 0.795 0.294 2.706 0.007 0.795 0.387 CM_B.3 (V3t1) 0.795 0.294 2.706 0.007 0.795 0.387 CM_B.3 (V3t1) 0.795 0.294 2.706 0.007 0.795 0.409 CM.3 2 (V3t2) 3.694 0.893 4.136 0.000 3.694 1.902								
H_R.3 (V1t2) 4.594 1.596 2.879 0.004 4.594 1.824 C_B.3 (V2t1) 0.322 0.176 1.829 0.067 0.322 0.208 C_B.3 (V2T1) 2.490 0.367 6.778 0.000 2.490 1.607 Cm.3 1 (V2t1) 0.322 0.176 1.829 0.067 0.322 0.286 Cm.3 2 (V2T2) 2.204 0.436 5.053 0.000 2.204 1.955 CM_B.3 (V3t1) 0.795 0.294 2.706 0.007 0.795 0.387 CM_B.3 (V3t1) 0.795 0.294 2.706 0.007 0.795 0.387 CM_B.3 (V3t1) 0.795 0.294 2.706 0.007 0.795 0.409 CM.3 1 (V3t1) 0.795 0.294 2.706 0.007 0.795 0.409 CM.3 2 (V3T2) 3.694 0.893 4.136 0.000 3.694 1.902								
C_B.3 (V2t1) 0.322 0.176 1.829 0.067 0.322 0.208 C_B.3 (V2T1) 2.490 0.367 6.778 0.000 2.490 1.607 Cm.3 1 (V2t1) 0.322 0.176 1.829 0.067 0.322 0.286 Cm.3 2 (V2T2) 2.204 0.436 5.053 0.000 2.204 1.955 CM_B.3 (V3t1) 0.795 0.294 2.706 0.007 0.795 0.387 CM_B.3 (V3t1) 0.795 0.294 2.706 0.007 0.795 0.387 CM_B.3 (V3t1) 0.795 0.294 2.706 0.007 0.795 0.387 CM_3 1 (V3t1) 0.795 0.294 2.706 0.007 0.795 0.409 CM.3 2 (V3T2) 3.694 0.893 4.136 0.000 3.694 1.902 RP_B.3 (V4t1) -0.613 0.106 -5.802 0.000 -0.613 -0.581								
C_B.3 (V2T1) 2.490 0.367 6.778 0.000 2.490 1.607 Cm.3 1 (V2t1) 0.322 0.176 1.829 0.067 0.322 0.286 Cm.3 2 (V2T2) 2.204 0.436 5.053 0.000 2.204 1.955 CM_B.3 (V3t1) 0.795 0.294 2.706 0.007 0.795 0.387 CM_B.3 (V3T1) 3.485 0.659 5.292 0.000 3.485 1.695 CM.3 1 (V3t1) 0.795 0.294 2.706 0.007 0.795 0.409 CM.3 2 (V3T2) 3.694 0.893 4.136 0.000 3.694 1.902 RP_B.3 (V4t1) -0.613 0.106 -5.802 0.000 -0.613 -0.581 RP_B.3 1 (V4t1) -0.613 0.106 -5.802 0.000 -0.613 -0.457 RP.3 2 (V4t2) 1.172 0.207 5.666 0.000 1.172 0.875	-							
Cm.3 1 (V2t1) 0.322 0.176 1.829 0.067 0.322 0.286 Cm.3 2 (V2T2) 2.204 0.436 5.053 0.000 2.204 1.955 CM_B.3 (V3t1) 0.795 0.294 2.706 0.007 0.795 0.387 CM_B.3 (V3T1) 3.485 0.659 5.292 0.000 3.485 1.695 CM.3 1 (V3t1) 0.795 0.294 2.706 0.007 0.795 0.409 CM.3 2 (V3T2) 3.694 0.893 4.136 0.000 3.694 1.902 RP_B.3 (V4t1) -0.613 0.106 -5.802 0.000 -0.613 -0.581 RP_B.3 1 (V4t1) -0.613 0.106 -5.802 0.000 -0.613 -0.457 RP.3 2 (V4t2) 1.172 0.207 5.666 0.000 1.172 0.875 LP_B.3 (V5t1) -1.724 0.112 -15.357 0.000 -1.724 -	-							
Cm.3 2 (V2T2) 2.204 0.436 5.053 0.000 2.204 1.955 CM_B.3 (V3t1) 0.795 0.294 2.706 0.007 0.795 0.387 CM_B.3 (V3T1) 3.485 0.659 5.292 0.000 3.485 1.695 CM.3 1 (V3t1) 0.795 0.294 2.706 0.007 0.795 0.409 CM.3 2 (V3T2) 3.694 0.893 4.136 0.000 3.694 1.902 RP_B.3 (V4t1) -0.613 0.106 -5.802 0.000 -0.613 -0.581 RP_B.3 1 (V4t1) -0.613 0.106 -5.802 0.000 -0.613 -0.457 RP.3 2 (V4t2) 1.172 0.207 5.666 0.000 1.172 0.875 LP_B.3 (V5t1) -1.724 0.112 -15.357 0.000 -1.724 -0.939 LP.3 1 (V5t1) -1.724 0.112 -15.357 0.000 -1.724								
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CM_B.3 (V3T1) 3.485 0.659 5.292 0.000 3.485 1.695 CM.3 1 (V3t1) 0.795 0.294 2.706 0.007 0.795 0.409 CM.3 2 (V3T2) 3.694 0.893 4.136 0.000 3.694 1.902 RP_B.3 (V4t1) -0.613 0.106 -5.802 0.000 -0.613 -0.581 RP_B.3 1 (V4t1) -0.613 0.106 -5.802 0.000 -0.613 -0.457 RP.3 2 (V4t2) 1.172 0.207 5.666 0.000 1.172 0.375 LP_B.3 (V5t1) -1.724 0.112 -15.357 0.000 -1.724 -0.939 LP_B.3 (V5t1) -1.724 0.112 -15.357 0.000 -1.724 -0.785 LP.3 1 (V5t1) -1.724 0.112 -15.357 0.000 -1.724 -0.785 LP.3 2 (V5T2) 1.485 0.331 4.488 0.000 -1.432								
CM.3 1 (V3t1) 0.795 0.294 2.706 0.007 0.795 0.409 CM.3 2 (V3T2) 3.694 0.893 4.136 0.000 3.694 1.902 RP_B.3 (V4t1) -0.613 0.106 -5.802 0.000 -0.613 -0.581 RP_B.3 (V4t2) 1.172 0.207 5.666 0.000 1.172 1.112 RP.3 1 (V4t1) -0.613 0.106 -5.802 0.000 -0.613 -0.457 RP.3 2 (V4t2) 1.172 0.207 5.666 0.000 1.172 0.875 LP_B.3 (V5t1) -1.724 0.112 -15.357 0.000 -1.724 -0.939 LP_B.3 (V5T1) 1.302 0.541 2.408 0.016 1.302 0.709 LP.3 1 (V5t1) -1.724 0.112 -15.357 0.000 -1.724 -0.785 LP.3 2 (V5T2) 1.485 0.331 4.488 0.000 1.485 0.676 PR_B.3 (V6t1) -1.432 0.143 -10.046 0.000 -1.432 -0.748 PR_B.3 (V6T1) 1.140 0.573 1.989 0.047 1.140 0.595 PR.3 1 (V6t1) -1.432 0.143 -10.046 0.000 -1.432 -0.635 PR.3 2 (V6T2) 1.786 0.355 5.035 0.000 1.786 0.791 WS_B.3 (V7t1) -1.831 0.129 -14.162 0.000 -1.831 -0.937	-							
CM.3 2 (V3T2) 3.694 0.893 4.136 0.000 3.694 1.902 RP_B.3 (V4t1) -0.613 0.106 -5.802 0.000 -0.613 -0.581 RP_B.3 (V4t2) 1.172 0.207 5.666 0.000 1.172 1.112 RP.3 1 (V4t1) -0.613 0.106 -5.802 0.000 -0.613 -0.457 RP.3 2 (V4t2) 1.172 0.207 5.666 0.000 1.172 0.875 LP_B.3 (V5t1) -1.724 0.112 -15.357 0.000 -1.724 -0.939 LP_B.3 (V5t1) -1.724 0.112 -15.357 0.000 -1.724 -0.785 LP.3 1 (V5t1) -1.724 0.112 -15.357 0.000 -1.724 -0.785 LP.3 2 (V5T2) 1.485 0.331 4.488 0.000 1.485 0.676 PR_B.3 (V6t1) -1.432 0.143 -10.046 0.000 -1.432 -0.748 PR.3 1 (V6t1) -1.432 0.143 -10.046 <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	_							
RP_B.3 (V4t1) -0.613 0.106 -5.802 0.000 -0.613 -0.581 RP_B.3 (V4t2) 1.172 0.207 5.666 0.000 1.172 1.112 RP.3 1 (V4t1) -0.613 0.106 -5.802 0.000 -0.613 -0.457 RP.3 2 (V4t2) 1.172 0.207 5.666 0.000 1.172 0.875 LP_B.3 (V5t1) -1.724 0.112 -15.357 0.000 -1.724 -0.939 LP_B.3 (V5t1) 1.302 0.541 2.408 0.016 1.302 0.709 LP.3 1 (V5t1) -1.724 0.112 -15.357 0.000 -1.724 -0.785 LP.3 2 (V5T2) 1.485 0.331 4.488 0.000 1.485 0.676 PR_B.3 (V6t1) -1.432 0.143 -10.046 0.000 -1.432 -0.748 PR_B.3 (V6t1) 1.140 0.573 1.989 0.047 1.140 0.595 PR.3 1 (V6t1) -1.432 0.143 -10.046 0.000 -1.432 -0.635 PR.3 2 (V6T2) 1.786 0.355 5.035 0.000 1.786 0.791 WS_B.3 (V7t1) -1.831 0.129 -14.162 0.000 -1.831 -0.937								
RP_B.3 (V4t2) 1.172 0.207 5.666 0.000 1.172 1.112 RP.3 1 (V4t1) -0.613 0.106 -5.802 0.000 -0.613 -0.457 RP.3 2 (V4t2) 1.172 0.207 5.666 0.000 1.172 0.875 LP_B.3 (V5t1) -1.724 0.112 -15.357 0.000 -1.724 -0.939 LP_B.3 (V5T1) 1.302 0.541 2.408 0.016 1.302 0.709 LP.3 1 (V5t1) -1.724 0.112 -15.357 0.000 -1.724 -0.785 LP.3 2 (V5T2) 1.485 0.331 4.488 0.000 1.485 0.676 PR_B.3 (V6t1) -1.432 0.143 -10.046 0.000 -1.432 -0.748 PR_B.3 (V6t1) 1.140 0.573 1.989 0.047 1.140 0.595 PR.3 1 (V6t1) -1.432 0.143 -10.046 0.000 -1.432 -0.635 PR.3 2 (V6T2) 1.786 0.355 5.035 0.000 1.786 0.791 WS_B.3 (V7t1) -1.831 0.129 -14.162 0.000 -1.831 -0.937								
RP.3 1 (V4t1) -0.613 0.106 -5.802 0.000 -0.613 -0.457 RP.3 2 (V4t2) 1.172 0.207 5.666 0.000 1.172 0.875 LP_B.3 (V5t1) -1.724 0.112 -15.357 0.000 -1.724 -0.939 LP_B.3 (V5T1) 1.302 0.541 2.408 0.016 1.302 0.709 LP.3 1 (V5t1) -1.724 0.112 -15.357 0.000 -1.724 -0.785 LP.3 2 (V5T2) 1.485 0.331 4.488 0.000 1.485 0.676 PR_B.3 (V6t1) -1.432 0.143 -10.046 0.000 -1.432 -0.748 PR_B.3 (V6T1) 1.140 0.573 1.989 0.047 1.140 0.595 PR.3 1 (V6t1) -1.432 0.143 -10.046 0.000 -1.432 -0.635 PR.3 2 (V6T2) 1.786 0.355 5.035 0.000 1.786 0.791 WS_B.3 (V7t1) -1.831 0.129 -14.162 0.000 -1.831 -0.937	-							
RP.3 2 (V4t2) 1.172 0.207 5.666 0.000 1.172 0.875 LP_B.3 (V5t1) -1.724 0.112 -15.357 0.000 -1.724 -0.939 LP_B.3 (V5T1) 1.302 0.541 2.408 0.016 1.302 0.709 LP.3 1 (V5t1) -1.724 0.112 -15.357 0.000 -1.724 -0.785 LP.3 2 (V5T2) 1.485 0.331 4.488 0.000 1.485 0.676 PR_B.3 (V6t1) -1.432 0.143 -10.046 0.000 -1.432 -0.748 PR_B.3 (V6T1) 1.140 0.573 1.989 0.047 1.140 0.595 PR.3 1 (V6t1) -1.432 0.143 -10.046 0.000 -1.432 -0.635 PR.3 2 (V6T2) 1.786 0.355 5.035 0.000 1.786 0.791 WS_B.3 (V7t1) -1.831 0.129 -14.162 0.000 -1.831 -0.937	_							
LP_B.3 (V5t1) -1.724 0.112 -15.357 0.000 -1.724 -0.939 LP_B.3 (V5T1) 1.302 0.541 2.408 0.016 1.302 0.709 LP.3 1 (V5t1) -1.724 0.112 -15.357 0.000 -1.724 -0.785 LP.3 2 (V5T2) 1.485 0.331 4.488 0.000 1.485 0.676 PR_B.3 (V6t1) -1.432 0.143 -10.046 0.000 -1.432 -0.748 PR_B.3 (V6T1) 1.140 0.573 1.989 0.047 1.140 0.595 PR.3 1 (V6t1) -1.432 0.143 -10.046 0.000 -1.432 -0.635 PR.3 2 (V6T2) 1.786 0.355 5.035 0.000 1.786 0.791 WS_B.3 (V7t1) -1.831 0.129 -14.162 0.000 -1.831 -0.937								
LP_B.3 (V5T1) 1.302 0.541 2.408 0.016 1.302 0.709 LP.3 1 (V5t1) -1.724 0.112 -15.357 0.000 -1.724 -0.785 LP.3 2 (V5T2) 1.485 0.331 4.488 0.000 1.485 0.676 PR_B.3 (V6t1) -1.432 0.143 -10.046 0.000 -1.432 -0.748 PR_B.3 (V6T1) 1.140 0.573 1.989 0.047 1.140 0.595 PR.3 1 (V6t1) -1.432 0.143 -10.046 0.000 -1.432 -0.635 PR.3 2 (V6T2) 1.786 0.355 5.035 0.000 1.786 0.791 WS_B.3 (V7t1) -1.831 0.129 -14.162 0.000 -1.831 -0.937	RP.3 2		1.172				1.172	
LP.3 1 (V5t1) -1.724 0.112 -15.357 0.000 -1.724 -0.785 LP.3 2 (V5T2) 1.485 0.331 4.488 0.000 1.485 0.676 PR_B.3 (V6t1) -1.432 0.143 -10.046 0.000 -1.432 -0.748 PR_B.3 (V6T1) 1.140 0.573 1.989 0.047 1.140 0.595 PR.3 1 (V6t1) -1.432 0.143 -10.046 0.000 -1.432 -0.635 PR.3 2 (V6T2) 1.786 0.355 5.035 0.000 1.786 0.791 WS_B.3 (V7t1) -1.831 0.129 -14.162 0.000 -1.831 -0.937	LP_B.3	(V5t1)	-1.724		-15.357	0.000	-1.724	-0.939
LP.3 2 (V5T2) 1.485 0.331 4.488 0.000 1.485 0.676 PR_B.3 (V6t1) -1.432 0.143 -10.046 0.000 -1.432 -0.748 PR_B.3 (V6T1) 1.140 0.573 1.989 0.047 1.140 0.595 PR.3 1 (V6t1) -1.432 0.143 -10.046 0.000 -1.432 -0.635 PR.3 2 (V6T2) 1.786 0.355 5.035 0.000 1.786 0.791 WS_B.3 (V7t1) -1.831 0.129 -14.162 0.000 -1.831 -0.937	LP_B.3	(V5T1)	1.302	0.541	2.408	0.016	1.302	0.709
PR_B.3 (V6t1) -1.432 0.143 -10.046 0.000 -1.432 -0.748 PR_B.3 (V6T1) 1.140 0.573 1.989 0.047 1.140 0.595 PR.3 1 (V6t1) -1.432 0.143 -10.046 0.000 -1.432 -0.635 PR.3 2 (V6T2) 1.786 0.355 5.035 0.000 1.786 0.791 WS_B.3 (V7t1) -1.831 0.129 -14.162 0.000 -1.831 -0.937	LP.3 1	(V5t1)	-1.724	0.112	-15.357	0.000	-1.724	-0.785
PR_B.3 (V6T1) 1.140 0.573 1.989 0.047 1.140 0.595 PR.3 1 (V6t1) -1.432 0.143 -10.046 0.000 -1.432 -0.635 PR.3 2 (V6T2) 1.786 0.355 5.035 0.000 1.786 0.791 WS_B.3 (V7t1) -1.831 0.129 -14.162 0.000 -1.831 -0.937	LP.3 2	(V5T2)	1.485	0.331	4.488	0.000	1.485	0.676
PR.3 1 (V6t1) -1.432 0.143 -10.046 0.000 -1.432 -0.635 PR.3 2 (V6T2) 1.786 0.355 5.035 0.000 1.786 0.791 WS_B.3 (V7t1) -1.831 0.129 -14.162 0.000 -1.831 -0.937	PR_B.3	(V6t1)	-1.432	0.143	-10.046	0.000	-1.432	-0.748
PR.3 2 (V6T2) 1.786 0.355 5.035 0.000 1.786 0.791 WS_B.3 (V7t1) -1.831 0.129 -14.162 0.000 -1.831 -0.937	PR_B.3	(V6T1)	1.140	0.573	1.989	0.047	1.140	0.595
WS_B.3 (V7t1) -1.831 0.129 -14.162 0.000 -1.831 -0.937	PR.3 1	(V6t1)	-1.432	0.143	-10.046	0.000	-1.432	-0.635
WS_B.3 (V7t1) -1.831 0.129 -14.162 0.000 -1.831 -0.937	PR.3 2	(V6T2)	1.786	0.355	5.035	0.000	1.786	0.791
_	WS_B.3					0.000		
	WS_B.3	(V7T1)	1.284	0.552	2.325	0.020	1.284	0.657

	WS.3 1 (V7t1)	-1.831	0.129	-14.162	0.000	-1.831	-0.893
	WS.3 2 (V7T2)	1.619	0.391	4.138	0.000	1.619	0.789
	LGU_B. (V8t1)	-0.646	0.084	-7.712	0.000	-0.646	-0.669
	LGU_B. (V8t2)	0.542	0.088	6.173	0.000	0.542	0.561
	LGU.3 (V8t1)	-0.646	0.084	-7.712	0.000	-0.646	-0.681
	LGU.3 (V8t2)	0.542	0.088	6.173	0.000	0.542	0.571
	PR_B.3 (V9t1)	0.923	0.125	-7.383	0.000	-0.923	-0.586
	PR_B.3 (V9T1)	0.742	0.227	3.267	0.001	0.742	0.471
	PR.3 1 (V9t1)	0.923	0.125	-7.383	0.000	-0.923	-0.761
	PR.3 2 (V9T2)		0.135	3.508	0.000	0.474	0.391
	GAP_B. (V101)		0.100	-11.788	0.000	-1.183	-0.664
	GAP_B. (V10T1)		0.184	0.828	0.408	0.153	0.086
	GAP.3 (V101)		0.100	-11.788	0.000	-1.183	-0.734
	GAP.3 (V10T2)		0.169	5.103	0.000	0.865	0.537
	FAL_B. (V111)		0.106	-12.626	0.000	-1.338	-0.695
	FAL_B. (V11T1)		0.192	1.443	0.149	0.277	0.144
	FAL.3 (V111)		0.106	-12.626	0.000	-1.338	-0.773
	FAL.3 (V11T2)		0.185	5.026	0.000	0.928	0.536
	F_B.3 (V121)		0.104	-6.492	0.000	-0.678	-0.617
	F_B.3 (V122)		0.108	3.988	0.000	0.430	0.391
	Fg.3 1 (V121)		0.104	-6.492	0.000	-0.678	-0.647
	Fg.3 2 (V122)		0.108	3.988	0.000	0.430	0.410
	FH_B.3 (V131)		0.101	-14.964	0.000	-1.506	-0.857
	FH_B.3 (V13T1)		0.229	3.495	0.000	0.799	0.455
	FH.3 1 (V131)		0.101	-14.964	0.000	-1.506	-0.843
	FH.3 2 (V13T2)		0.170	3.154	0.002	0.537	0.301
	RW_B.3 (V141)		0.105	-15.023	0.000	-1.580	-0.901
	RW_B.3 (V14T1)		0.220	2.280	0.023	0.501	0.286
	RW.3 1 (V141)		0.105	-15.023	0.000	-1.580	-0.967
	RW.3 2 (V14T2)		0.174	2.673	0.008	0.465	0.285
Var	iances:						
		Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
	HRS.rpre	6.514	4.876	1.336	0.182	1.000	1.000
	HRS.post	4.887	3.767	1.298	0.194	1.000	1.000
	PS.rpre	0.840	0.302	2.780	0.005	1.000	1.000
	PS.post	1.166	0.284	4.107	0.000	1.000	1.000
	PRB.rpre	0.750	0.170	4.408	0.000	1.000	1.000
	PRB.post	0.610	0.146	4.171	0.000	1.000	1.000
	RBA.rpre	0.695	0.189	3.670	0.000	1.000	1.000
	RBA.post	0.769	0.179	4.307	0.000	1.000	1.000
	.Hlthy_Rl_Bfr.:					1.000	0.133
	.Commnct_Bfr.3					1.000	0.416
	.CnflctMngm_B.					1.000	0.237
	.RghtPrtnr_Bf.:		0.111	2.445	0.014	0.271	0.244
	.LrnPrtnr_Bfr.:		0.245	1.100	0.271	0.270	0.080
	.PcRltnshp_Bf.:		0.326	1.718	0.086	0.560	0.153
	.WrnngSgns_Bf.:		0.409	2.143	0.032	0.877	0.230
	J						

.LrndGrwngU_B.3	0.181	0.056	3.262	0.001	0.181	0.195
.PstRltnshp_B.3	0.974	0.198	4.932	0.000	0.974	0.393
.GtAlngPrnt_B.3	0.808	0.225	3.591	0.000	0.808	0.255
.FrndshpsAL_B.3	0.640	0.211	3.034	0.002	0.640	0.173
.Fights_Befr.3n	0.512	0.170	3.019	0.003	0.512	0.424
.FlngsHrt_Bfr.3	1.000	0.225	4.437	0.000	1.000	0.324
.RghtndWrng_B.3	1.037	0.255	4.076	0.000	1.037	0.338
.Healthy_Rel.3n	1.460	1.060	1.377	0.168	1.460	0.230
.Communicate.3n	0.220	0.101	2.186	0.029	0.220	0.173
.CnflctMngmnt.3	1.353	0.648	2.087	0.037	1.353	0.359
.RightPartnr.3n	0.629	0.193	3.264	0.001	0.629	0.350
.LearnPartnr.3n	0.521	0.220	2.365	0.018	0.521	0.108
.PaceRltnshp.3n	0.777	0.250	3.107	0.002	0.777	0.152
.WarningSgns.3n	0.122	0.169	0.724	0.469	0.122	0.029
.LrndGrwngUp.3n	0.290	0.096	3.008	0.003	0.290	0.322
.PstRltnshps.3n	0.249	0.091	2.747	0.006	0.249	0.169
.GtAlngPrnts.3n	0.668	0.168	3.975	0.000	0.668	0.258
.FrndshpsArLk.3	0.500	0.109	4.581	0.000	0.500	0.167
.Fights.3n	0.330	0.099	3.334	0.001	0.330	0.300
.FeelingsHrt.3n	0.880	0.267	3.290	0.001	0.880	0.276
.RightndWrng.3n	0.419	0.145	2.901	0.001	0.419	0.157
. Wighthawing. On	0.113	0.110	2.001	0.001	0.113	0.101
Scales y*:						
204 <u>2</u> 02 j .	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
Hlthy_Rl_Bfr.3	0.365			- (1-1)	0.365	1.000
Communit_Bfr.3n	0.645				0.645	1.000
CnflctMngm_B.3	0.486				0.486	1.000
Healthy_Rel.3n	0.397				0.397	1.000
Communicate.3n	0.887				0.887	1.000
CnflctMngmnt.3	0.515				0.515	1.000
RghtPrtnr_Bf.3	0.948				0.948	1.000
LrnPrtnr_Bfr.3	0.545				0.545	1.000
PcRltnshp_Bf.3	0.522				0.522	1.000
WrnngSgns_Bf.3	0.512				0.512	1.000
RightPartnr.3n	0.746				0.746	1.000
LearnPartnr.3n	0.455				0.455	1.000
PaceRltnshp.3n	0.443				0.443	1.000
WarningSgns.3n	0.488				0.488	1.000
LrndGrwngU_B.3	1.036				1.036	1.000
PstRltnshp_B.3	0.635				0.635	1.000
GtAlngPrnt_B.3	0.561				0.561	1.000
FrndshpsAL_B.3	0.520				0.520	1.000
LrndGrwngUp.3n	1.054				1.054	1.000
PstRltnshps.3n	0.824				0.824	1.000
GtAlngPrnts.3n	0.621				0.621	1.000
FrndshpsArLk.3	0.578				0.578	1.000
Fights_Befr.3n	0.910				0.910	1.000
FlngsHrt_Bfr.3	0.569				0.569	1.000
1 THE PITT (DIT 1.0	0.000				0.000	1.000

RghtndWrng_B.3	0.570	0.570	1.000
Fights.3n	0.954	0.954	1.000
FeelingsHrt.3n	0.560	0.560	1.000
RightndWrng.3n	0.612	0.612	1.000

6.4.4 Modification Indices

```
Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star
                  variables involved are: HRS.post PS.post
Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star
                  variables involved are: LearnPartner_Before.3n LearnPartner.3n
Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star
                  variables involved are: PaceRelationship_Before.3n PaceRelationship.3n
Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star
                  variables involved are: WarningSigns_Before.3n WarningSigns.3n
Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star
                  variables involved are: PastRelationships_Before.3n PastRelationships.3n
Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star
                  variables involved are: FriendshipsAreLike_Before.3n FriendshipsAreLike.3n
                                                   rhs
1
                PRB.post =~
                                       Communicate.3n 148.52071
2
                                        Healthy_Rel.3n 39.44290
                PRB.post =~
3
  ConflictManagement.3n ~~
                                       RightPartner.3n 34.33031
4
                                       LearnPartner.3n 27.42245
                RBA.post =~
5
          Healthy_Rel.3n ~~
                                   PaceRelationship.3n 15.85012
6
                PRB.rpre =~
                                  PastRelationships.3n 12.40635
7
                PRB.post =~
                                 ConflictManagement.3n 11.24136
8
                RBA.rpre =~
                                  PastRelationships.3n 11.08685
9
                PRB.post =~ PaceRelationship_Before.3n
                                                        10.52150
10
                RBA.post =~ PaceRelationship_Before.3n
                                                        10.34822
11
          Communicate.3n ~~
                                       WarningSigns.3n 10.03554
```

```
sepc.lv sepc.all sepc.nox
         ерс
1
   6.8424102 5.3445237 4.7392204 4.7392204
2
   4.3610714 3.4063801 1.3521133 1.3521133
3
   0.9705650 0.9705650 1.0519978 1.0519978
4
   2.5808605 2.2632656 1.0304741 1.0304741
5
   1.6378052 1.6378052 1.5382716 1.5382716
 -0.2915152 -0.2523811 -0.2079260 -0.2079260
7
  1.2345516 0.9642933 0.4963618 0.4963618
8 -0.2802347 -0.2335929 -0.1924472 -0.1924472
9
   0.4363698  0.3408432  0.1778721  0.1778721
10 0.3711352 0.3254641 0.1698464 0.1698464
11 0.6144012 0.6144012 3.7487331 3.7487331
```

6.4.5 Model Comparison

```
lavaan::anova(Fit.Rcomb.model.c.con, Fit.Rcomb.model.c.load)
```

Scaled Chi Square Difference Test (method = "satorra.2000")

Df AIC BIC Chisq Chisq diff Df diff Pr(>Chisq)

Fit.Rcomb.model.c.con 294 217.46

Fit.Rcomb.model.c.load 304 222.32 10.428 10 0.4038

6.4.6 Threshold Invariant

Warning in law_object_post_check(object): lavaan WARNING: covariance matrix of latent variables is not positive definite;
use inspect(fit, "cov.lv") to investigate.

lavaan (0.6-1) converged normally after 160 iterations

Ç ,				
		Used	Total	
Number of observations		111	134	
Estimator		DWLS	Robust	
Model Fit Test Statistic	2	30.747	361.349	
Degrees of freedom		314	314	
P-value (Chi-square)		1.000	0.034	
Scaling correction factor			1.423	
Shift parameter			199.163	
for simple second-order correction	(Mplus va	riant)		
Model test baseline model:				
Minimum Function Test Statistic	186	02.907	4580.137	
Degrees of freedom		378	378	
P-value		0.000	0.000	
User model versus baseline model:				
Comparative Fit Index (CFI)		1.000	0.989	
Tucker-Lewis Index (TLI)		1.005	0.986	
Robust Comparative Fit Index (CFI)			NA	
Robust Tucker-Lewis Index (TLI)			NA	
Root Mean Square Error of Approximation	:			
RMSEA		0.000	0.037	
90 Percent Confidence Interval	0.000	0.000	0.011	0.053
P-value RMSEA <= 0.05		1.000	0.897	
Robust RMSEA			NA	
90 Percent Confidence Interval			NA	NA
Standardized Root Mean Square Residual:				

Parameter Estimates:

SRMR

0.079

0.079

Information	Expected
Information saturated (h1) mo	del Unstructured
Standard Errors	Robust.sem

Latent	Variables:	

racent varia	mres.						
		Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
HRS.rpre =	-~						
$H_R_B.3$		1.000				2.527	0.930
Cmm_B.3	(V2L)	0.483	0.198	2.437	0.015	1.220	0.773
$CnM_B.3$	(V3L)	0.688	0.273	2.516	0.012	1.738	0.867
HRS.post =	-~						
Hlt_R.3		1.000				2.231	0.877
Cmmnc.3	(V2L)	0.483	0.198	2.437	0.015	1.077	0.909
CnflM.3	(V3L)	0.688	0.273	2.516	0.012	1.534	0.801
PS.rpre =~	•						
RgP_B.3	(V4L)	1.000				0.859	0.874
LrP_B.3	(V5L)	3.090	0.188	16.481	0.000	2.654	0.960
PcR_B.3	(V6L)	2.053	0.110	18.748	0.000	1.763	0.914
WrS_B.3	(V7L)	1.809	0.115	15.665	0.000	1.554	0.877
PS.post =~	•						
RghtP.3	(V4L)	1.000				0.911	0.806
LrnPr.3	(V5L)	3.090	0.188	16.481	0.000	2.814	0.944
PcRlt.3	(V6L)	2.053	0.110	18.748	0.000	1.869	0.921
WrnnS.3	(V7L)	1.809	0.115	15.665	0.000	1.647	0.985
PRB.rpre =	-~						
LGU_B.3	(V8L)	1.000				0.857	0.904
PsR_B.3	(V9L)	1.611	0.120	13.373	0.000	1.380	0.791
GAP_B.3	(V10L)	1.493	0.071	20.925	0.000	1.279	0.856
FAL_B.3	(V11L)	2.593	0.122	21.224	0.000	2.222	0.905
PRB.post =	-~						
LrnGU.3	(V8L)	1.000				0.669	0.824
PstRl.3	(V9L)	1.611	0.120	13.373	0.000	1.077	0.913
GtAlP.3	(V10L)	1.493	0.071	20.925	0.000	0.998	0.860
FrnAL.3	(V11L)	2.593	0.122	21.224	0.000	1.734	0.912
RBA.rpre =	:~						
Fgh_B.3	(V12L)	1.000				0.696	0.756
F1H_B.3	(V13L)	1.905	0.123	15.495	0.000	1.326	0.825
RgW_B.3	(V14L)	2.043	0.131	15.629	0.000	1.422	0.813
RBA.post =	:~						
Fghts.3		1.000				0.769	0.836
FlngH.3	(V13L)	1.905	0.123	15.495	0.000	1.465	0.852
RghtW.3	(V14L)	2.043	0.131	15.629	0.000	1.571	0.918

Covariances:

	Estimate	Std.Err	z-value	P(> z)
HRS.rpre ~~				
HRS.post	0.831	0.883	0.941	0.347
PS.rpre	1.717	0.551	3.118	0.002

PS.post	0.157	0.263	0.598	0.550
PRB.rpre	1.289	0.431	2.991	0.003
PRB.post	-0.188	0.207	-0.912	0.362
RBA.rpre	1.132	0.360	3.142	0.002
RBA.post	0.187	0.245	0.762	0.446
HRS.post ~~				
PS.rpre	-0.056	0.220	-0.253	0.800
PS.post	2.069	0.788	2.626	0.009
PRB.rpre	0.440	0.270	1.633	0.103
PRB.post	1.039	0.452	2.300	0.021
RBA.rpre	0.331	0.216	1.536	0.125
RBA.post	1.465	0.572	2.561	0.010
PS.rpre ~~				
PS.post	0.006	0.092	0.070	0.944
PRB.rpre	0.405	0.101	3.996	0.000
PRB.post	-0.050	0.069	-0.716	0.474
RBA.rpre	0.334	0.107	3.107	0.002
RBA.post	0.015	0.089	0.170	0.865
PS.post ~~				
PRB.rpre	0.174	0.097	1.788	0.074
PRB.post	0.427	0.105	4.051	0.000
RBA.rpre	0.085	0.078	1.097	0.273
RBA.post	0.575	0.125	4.600	0.000
PRB.rpre ~~				
PRB.post	0.230	0.073	3.165	0.002
RBA.rpre	0.558	0.118	4.732	0.000
RBA.post	0.226	0.080	2.809	0.005
PRB.post ~~				
RBA.rpre	0.094	0.055	1.706	0.088
RBA.post	0.483	0.103	4.671	0.000
RBA.rpre ~~				
RBA.post	0.171	0.067	2.528	0.011
.Healthy_Rel_Before.3n ~~				
.Healthy_Rel.3n	0.955	0.813	1.175	0.240
.Communicate_Before.3n ~~				
.Communicate.3n	0.364	0.191	1.903	0.057
.ConflictManagement_Before.3n ~~				
.CnflctMngmnt.3	0.511	0.348	1.466	0.143
.RightPartner_Before.3n ~~				
.RightPartnr.3n	0.038	0.115	0.326	0.744
.LearnPartner_Before.3n ~~				
.LearnPartnr.3n	1.082	0.606	1.784	0.074
.PaceRelationship_Before.3n ~~				
.PaceRltnshp.3n	0.614	0.370	1.658	0.097
.WarningSigns_Before.3n ~~	J. U.L.			
.WarningSgns.3n	0.247	0.250	0.990	0.322
.LearnedGrowingUp_Before.3n ~~				
.LrndGrwngUp.3n	0.033	0.079	0.423	0.672

	tionships_Before.3n ~~	0.504	0.045	0.500	
	nshps.3n	0.564	0.217	2.596	0.009
_	Parents_Before.3n ~~	0.000	0 110	1 445	0 140
_	Prnts.3n ipsAreLike_Before.3n ~~	0.202	0.140	1.445	0.148
	osArLk.3	1.115	0.337	3.306	0.001
_	efore.3n ~~	1.115	0.557	3.300	0.001
.Fights		0.187	0.084	2.220	0.026
_	Hurt_Before.3n ~~	0.101	0.001	2.220	0.020
_	gsHrt.3n	0.477	0.286	1.671	0.095
-	Vrong_Before.3n ~~				
_	dWrng.3n	0.639	0.252	2.537	0.011
Std.lv	Std.all				
0.147	0.147				
0.791	0.791				
0.068	0.068				
0.595	0.595				
-0.112	-0.112				
0.644	0.644				
0.096	0.096				
-0.029	-0.029				
1.018	1.018				
0.230	0.230				
0.696	0.696				
0.213	0.213				
0.854	0.854				
0.008	0.008				
0.550	0.550				
-0.086	-0.086				
0.558	0.558				
0.023	0.023				
0.020	0.020				
0.223	0.223				
0.701	0.701				
0.135	0.135				
0.821	0.821				
0.402	0.402				
0.936	0.936				
0.343	0.343				
0.201	0.201				
0.939	0.939				
0.319	0.319				

0.955	0.783
0.364	0.738
0.511	0.445
0.038	0.118
1.082	1.437
0.614	0.992
0.247	1.014
0.033	0.179
0.564	1.101
0.202	0.442
1.115	1.367
0.187	0.615
0.477	0.584
0.639	0.923

rtercepts:						
	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
HRS.rpre	0.000				0.000	0.000
HRS.post	4.813	1.762	2.732	0.006	2.157	2.157
PS.rpre	-1.065	0.149	-7.171	0.000	-1.240	-1.240
PS.post	1.050	0.104	10.086	0.000	1.153	1.153
PRB.rpre	-0.610	0.098	-6.221	0.000	-0.711	-0.711
PRB.post	0.590	0.087	6.796	0.000	0.883	0.883
RBA.rpre	-0.498	0.083	-5.990	0.000	-0.716	-0.716
RBA.post	0.723	0.099	7.283	0.000	0.940	0.940
.Hlthy_Rl_Bfr.3	0.000				0.000	0.000
.Commnct_Bfr.3n	0.000				0.000	0.000
$. {\tt CnflctMngm_B.3}$	0.000				0.000	0.000
.Healthy_Rel.3n	0.000				0.000	0.000
.Communicate.3n	0.000				0.000	0.000
$. {\tt CnflctMngmnt.3}$	0.000				0.000	0.000
.RghtPrtnr_Bf.3	0.000				0.000	0.000
.LrnPrtnr_Bfr.3	0.000				0.000	0.000
.PcRltnshp_Bf.3	0.000				0.000	0.000

.WrnngSgns_Bf.3	0.000				0.000	0.000
.RightPartnr.3n	0.000				0.000	0.000
.LearnPartnr.3n	0.000				0.000	0.000
.PaceRltnshp.3n	0.000				0.000	0.000
.WarningSgns.3n	0.000				0.000	0.000
.LrndGrwngU_B.3	0.000				0.000	0.000
.PstRltnshp_B.3	0.000				0.000	0.000
.GtAlngPrnt_B.3	0.000				0.000	0.000
.FrndshpsAL_B.3	0.000				0.000	0.000
$. {\tt LrndGrwngUp.3n}$	0.000				0.000	0.000
$. {\tt PstRltnshps.3n}$	0.000				0.000	0.000
$. {\tt GtAlngPrnts.3n}$	0.000				0.000	0.000
.FrndshpsArLk.3	0.000				0.000	0.000
.Fights_Befr.3n	0.000				0.000	0.000
.FlngsHrt_Bfr.3	0.000				0.000	0.000
.RghtndWrng_B.3	0.000				0.000	0.000
.Fights.3n	0.000				0.000	0.000
.FeelingsHrt.3n	0.000				0.000	0.000
.RightndWrng.3n	0.000				0.000	0.000
Thresholds:						
	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
H_R_B.3 (V1t1)	0.642	0.390	1.646	0.100	0.642	0.236
H_R_B.3 (V1t2)	4.610	1.589	2.902	0.004	4.610	1.696
H_R.3 1 (V1t1)	0.642	0.390	1.646	0.100	0.642	0.252
H_R.3 2 (V1t2)	4.610	1.589	2.902	0.004	4.610	1.813
C_B.3 1 (V2t1)	0.329	0.181	1.821	0.069	0.329	0.209
C_B.3 2 (V2t2)	2.348	0.387	6.063	0.000	2.348	1.489
Cmm.3 1 (V2t1)	0.329	0.181	1.821	0.069	0.329	0.278
Cmm.3 2 (V2t2)	2.348	0.387	6.063	0.000	2.348	1.983
CM_B.3 (V3t1)	0.775	0.280	2.772	0.006	0.775	0.387
CM_B.3 (V3t2)	3.580	0.661	5.415	0.000	3.580	1.786
CnM.3 1 (V3t1)		0.280	2.772	0.006	0.775	0.405
CnM.3 2 (V3t2)	3.580	0.661	5.415	0.000	3.580	1.869
RP_B.3 (V4t1)		0.090	-4.512	0.000	-0.407	-0.414
RP B.3 (V4t2)	1.109	0.115	9.626	0.000	1.109	1.129
RgP.3 1 (V4t1)	-0.407	0.090	-4.512	0.000	-0.407	-0.361
RgP.3 2 (V4t2)	1.109	0.115	9.626	0.000	1.109	0.982
LP_B.3 (V5t1)	-2.050	0.169	-12.121	0.000	-2.050	-0.742
LP_B.3 (V5t2)	2.353	0.160	14.722	0.000	2.353	0.852
LrP.3 1 (V5t1)	-2.050	0.169	-12.121	0.000	-2.050	-0.688
LrP.3 2 (V5t2)	2.353	0.160	14.722	0.000	2.353	0.790
PR_B.3 (V6t1)	-1.063	0.143	-7.448	0.000	-1.063	-0.552
PR_B.3 (V6t2)	1.752	0.117	15.036	0.000	1.752	0.909
PcR.3 1 (V6t1)	-1.063	0.143	-7.448	0.000	-1.063	-0.524
PcR.3 2 (V6t2)	1.752	0.117	15.036	0.000	1.752	0.863
WS_B.3 (V7t1)	-1.333	0.117	-11.944	0.000	-1.333	-0.752
WS_B.3 (V7t1)	1.497	0.090	16.556	0.000	1.497	0.732
WD_D.O (V102)	1.431	0.090	10.000	0.000	1.431	0.040

WrS.3 1 (V7t1	-1.333	0.112	-11.944	0.000	-1.333	-0.797
WrS.3 2 (V7t2	1.497	0.090	16.556	0.000	1.497	0.895
LGU_B.3 (V8t1	-0.562	0.075	-7.469	0.000	-0.562	-0.593
LGU_B.3 (V8t2	0.497	0.075	6.648	0.000	0.497	0.524
LGU.3 1 (V8t1	0.562	0.075	-7.469	0.000	-0.562	-0.693
LGU.3 2 (V8t2		0.075	6.648	0.000	0.497	0.613
PR_B.3 (V9t1		0.128	-7.135	0.000	-0.910	-0.522
PR_B.3 (V9t2		0.104	5.383	0.000	0.561	0.322
PsR.3 1 (V9t1		0.128	-7.135	0.000	-0.910	-0.772
PsR.3 2 (V9t2		0.104	5.383	0.000	0.561	0.476
GAP_B.3 (V101		0.089	-9.615	0.000	-0.859	-0.575
GAP_B.3 (V102		0.089	5.534	0.000	0.491	0.329
GAP.3 1 (V101		0.089	-9.615	0.000	-0.859	-0.740
GAP.3 2 (V102		0.089	5.534	0.000	0.491	0.424
FAL_B.3 (V111		0.127	-11.633	0.000	-1.482	-0.603
FAL_B.3 (V112		0.119	7.206	0.000	0.859	0.350
FAL.3 1 (V111		0.113	-11.633	0.000	-1.482	-0.779
FAL.3 2 (V112		0.127	7.206	0.000	0.859	0.452
F_B.3 1 (V121		0.119	-6.597	0.000	-0.583	-0.633
F_B.3 2 (V121 F_B.3 2 (V122		0.088	4.232	0.000	0.372	0.404
-		0.088	-6.597	0.000	-0.583	
Fgh.3 1 (V121						-0.633
Fgh.3 2 (V122		0.088	4.232	0.000	0.372	0.405
FH_B.3 (V131		0.095	-14.824	0.000	-1.411	-0.878
FH_B.3 (V132		0.115	5.338	0.000	0.616	0.383
F1H.3 1 (V131		0.095	-14.824	0.000	-1.411	-0.821
FlH.3 2 (V132		0.115	5.338	0.000	0.616	0.358
RW_B.3 (V141		0.102	-15.882	0.000	-1.616	-0.924
RW_B.3 (V142		0.106	4.688	0.000	0.496	0.284
RgW.3 1 (V141		0.102	-15.882	0.000	-1.616	-0.945
RgW.3 2 (V142	0.496	0.106	4.688	0.000	0.496	0.290
Variances:						
	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
HRS.rpre	6.386	4.448	1.436	0.151	1.000	1.000
HRS.post	4.978	3.926	1.268	0.205	1.000	1.000
PS.rpre	0.738	0.190	3.888	0.000	1.000	1.000
PS.post	0.829	0.184	4.517	0.000	1.000	1.000
PRB.rpre	0.734	0.152	4.830	0.000	1.000	1.000
PRB.post	0.447	0.111	4.033	0.000	1.000	1.000
RBA.rpre	0.485	0.125	3.882	0.000	1.000	1.000
RBA.post	0.591	0.129	4.598	0.000	1.000	1.000
.Hlthy_Rl_Bfr.					1.000	0.135
.Commnct_Bfr.3					1.000	0.402
.CnflctMngm_B.					1.000	0.249
.RghtPrtnr_Bf.		0.096	2.375	0.018	0.228	0.249
.LrnPrtnr_Bfr.		0.521	1.134	0.257	0.591	0.230
.PcRltnshp_Bf		0.242	2.520	0.012	0.609	0.164
.WrnngSgns_Bf		0.242	2.707	0.012	0.725	0.231
· wrimgogno_br.	0.120	0.200	2.101	0.007	0.120	0.201

.LrndGrwngU_B.3	0.165	0.056	2.928	0.003	0.165	0.183
.PstRltnshp_B.3	1.137	0.204	5.572	0.000	1.137	0.374
.GtAlngPrnt_B.3	0.595	0.136	4.375	0.000	0.595	0.267
.FrndshpsAL_B.3	1.095	0.261	4.197	0.000	1.095	0.182
.Fights_Befr.3n	0.364	0.127	2.869	0.004	0.364	0.429
.FlngsHrt_Bfr.3	0.823	0.173	4.756	0.000	0.823	0.319
.RghtndWrng_B.3	1.040	0.231	4.502	0.000	1.040	0.340
.Healthy_Rel.3n	1.487	1.101	1.351	0.177	1.487	0.230
.Communicate.3n	0.243	0.100	2.417	0.016	0.243	0.173
.CnflctMngmnt.3	1.315	0.487	2.699	0.007	1.315	0.358
.RightPartnr.3n	0.447	0.113	3.963	0.000	0.447	0.350
.LearnPartnr.3n	0.958	0.335	2.864	0.004	0.958	0.108
.PaceRltnshp.3n	0.628	0.171	3.667	0.000	0.628	0.152
.WarningSgns.3n	0.082	0.112	0.736	0.462	0.082	0.029
.LrndGrwngUp.3n	0.211	0.068	3.086	0.002	0.211	0.321
.PstRltnshps.3n	0.231	0.077	3.005	0.003	0.231	0.166
.GtAlngPrnts.3n	0.350	0.091	3.856	0.000	0.350	0.260
.FrndshpsArLk.3	0.607	0.126	4.807	0.000	0.607	0.168
.Fights.3n	0.255	0.070	3.620	0.000	0.255	0.301
.FeelingsHrt.3n	0.810	0.232	3.488	0.000	0.810	0.274
.RightndWrng.3n	0.461	0.142	3.237	0.001	0.461	0.157
0 0						
Scales y*:						
J. Company	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
Hlthy_Rl_Bfr.3	0.368			,	0.368	1.000
Commnct_Bfr.3n	0.634				0.634	1.000
CnflctMngm_B.3	0.499				0.499	1.000
Healthy_Rel.3n	0.393				0.393	1.000
Communicate.3n	0.844				0.844	1.000
CnflctMngmnt.3	0.522				0.522	1.000
RghtPrtnr_Bf.3	1.018				1.018	1.000
LrnPrtnr_Bfr.3	0.362				0.362	1.000
PcRltnshp_Bf.3	0.519				0.519	1.000
WrnngSgns_Bf.3	0.564				0.564	1.000
RightPartnr.3n	0.885				0.885	1.000
LearnPartnr.3n	0.336				0.336	1.000
PaceRltnshp.3n	0.493				0.493	1.000
WarningSgns.3n	0.598				0.598	1.000
LrndGrwngU_B.3	1.055				1.055	1.000
PstRltnshp_B.3	0.573				0.573	1.000
GtAlngPrnt_B.3	0.670				0.670	1.000
FrndshpsAL_B.3	0.407				0.407	1.000
LrndGrwngUp.3n	1.232				1.232	1.000
PstRltnshps.3n	0.848				0.848	1.000
GtAlngPrnts.3n	0.862				0.862	1.000
FrndshpsArLk.3	0.526				0.526	1.000
Fights_Befr.3n	1.086				1.086	1.000
FlngsHrt_Bfr.3	0.622				0.622	1.000

RghtndWrng_B.3	0.571	0.571	1.000
Fights.3n	1.087	1.087	1.000
FeelingsHrt.3n	0.582	0.582	1.000
RightndWrng.3n	0.584	0.584	1.000

6.4.7 Modification Indices

```
Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star
                  variables involved are: HRS.post PS.post
Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star
                  variables involved are: LearnPartner_Before.3n LearnPartner.3n
Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star
                  variables involved are: WarningSigns_Before.3n WarningSigns.3n
Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star
                  variables involved are: PastRelationships_Before.3n PastRelationships.3n
Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star
                  variables involved are: FriendshipsAreLike_Before.3n FriendshipsAreLike.3n
                     lhs op
                                                   rhs
1
                HRS.post =~
                                       RightPartner.3n 437.03786
2
                HRS.post =~
                                   PaceRelationship.3n 238.08580
3
                                        Communicate.3n 106.27067
                PRB.post =~
4
                HRS.post =~
                                       WarningSigns.3n 72.63602
5
  ConflictManagement.3n ~~
                                       RightPartner.3n 34.06210
6
                RBA.post =~
                                       LearnPartner.3n 31.75921
7
                PRB.post =~
                                        Healthy_Rel.3n 21.40648
8
          Healthy_Rel.3n ~~
                                   PaceRelationship.3n 15.58734
9
                PRB.rpre =~
                                  PastRelationships.3n 14.62649
10
                RBA.rpre =~
                                  PastRelationships.3n
                                                        12.90703
11
                PRB.post =~ PaceRelationship_Before.3n
                                                        10.50616
12
                RBA.post =~ PaceRelationship_Before.3n
                                                        10.33824
                 sepc.lv
                           sepc.all
                                      sepc.nox
          epc
   6.7503465 15.0606264 13.3342869 13.3342869
1
2
  13.8014539 30.7922771 15.1662039 15.1662039
3
   5.6154533 3.7550226 3.1711073 3.1711073
   2.9105510 6.4936994 3.8834064 3.8834064
4
```

6.4.8 Model Comparison

11 0.5071125 0.3391033 0.1758807

5

6 7

8

```
lavaan::anova(Fit.Rcomb.model.c.load, Fit.Rcomb.model.c.thresh)
```

0.1758807

Scaled Chi Square Difference Test (method = "satorra.2000")

0.8013386 0.8013386 1.0458605 1.0458605

4.5279453 3.4811468 1.1683782 1.1683782

2.8340401 1.8951070 0.7453525 0.7453525

1.4624994 1.4624994 1.5136636 1.5136636 9 -0.3100978 -0.2657171 -0.2253190 -0.2253190 10 -0.3484428 -0.2425532 -0.2056768 -0.2056768

12 0.4176330 0.3210820 0.1665337 0.1665337

	Df	AIC BIC	Chisq	${\tt Chisq}$	${\tt diff}$	Df	diff	Pr(>Chisq)	
Fit.Rcomb.model.c.load	304		222.32						
Fit.Rcomb.model.c.thresh	314		230.75	14	1.671		10	0.1445	

6.4.9 Unique Factor Invariant

Warning in law_object_post_check(object): lavaan WARNING: covariance matrix of latent variable is not positive definite;
use inspect(fit, "cov.lv") to investigate.

lavaan (0.6-1) converged normally after 131 iterations

ě ,			
	Used	Total	
Number of observations	111	134	
Estimator	DWLS	Robust	
Model Fit Test Statistic	267.407	400.756	
Degrees of freedom	338	338	
P-value (Chi-square)	0.998	0.011	
Scaling correction factor		1.454	
Shift parameter		216.881	
for simple second-order correction	(Mplus variant)		
Model test baseline model:			
Minimum Function Test Statistic	18602.907	4580.137	
Degrees of freedom	378	378	
P-value	0.000	0.000	
User model versus baseline model:			
Comparative Fit Index (CFI)	1.000	0.985	
Tucker-Lewis Index (TLI)	1.004	0.983	
		37.4	
Robust Comparative Fit Index (CFI)		NA	
Robust Tucker-Lewis Index (TLI)		NA	
Root Mean Square Error of Approximation	:		
RMSEA	0.000	0.041	
90 Percent Confidence Interval	0.000 0.000	0.021	0.056
P-value RMSEA <= 0.05	1.000	0.824	
Robust RMSEA		NA	
90 Percent Confidence Interval		NA NA	NA
30 lercent confidence interval		IVA	IVA
Standardized Root Mean Square Residual:			

Parameter Estimates:

SRMR

0.082

Information	Expected
Information saturated (h1) m	nodel Unstructured
Standard Errors	Robust.sem

Latent	Var	·isl	1700	
Latent	vai	าสเ) $+5$	

Latent variable	s:						
		Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
HRS.rpre =~							
H_R_B.3 (V	1L)	1.035	0.192	5.378	0.000	2.031	0.897
Cmm_B.3		1.000				1.963	0.891
CnM_B.3 (V	3L)	0.754	0.123	6.156	0.000	1.480	0.829
HRS.post =~							
Hlt_R.3 (V	1L)	1.035	0.192	5.378	0.000	1.880	0.883
Cmmnc.3		1.000				1.817	0.876
CnflM.3 (V	3L)	0.754	0.123	6.156	0.000	1.370	0.808
PS.rpre =~							
RgP_B.3 (V	4L)	1.000				1.565	0.843
LrP_B.3 (V	5L)	2.091	0.473	4.419	0.000	3.273	0.956
PcR_B.3 (V	6L)	1.617	0.287	5.640	0.000	2.532	0.930
WrS_B.3 (V	7L)	1.217	0.299	4.072	0.000	1.906	0.885
PS.post =~							
RghtP.3 (V	4L)	1.000				1.434	0.820
LrnPr.3 (V	5L)	2.091	0.473	4.419	0.000	2.997	0.949
PcRlt.3 (V	6L)	1.617	0.287	5.640	0.000	2.319	0.918
WrnnS.3 (V	7L)	1.217	0.299	4.072	0.000	1.745	0.983
PRB.rpre =~							
LGU_B.3 (V	(18	1.000				1.716	0.864
PsR_B.3 (V	9L)	1.054	0.155	6.795	0.000	1.810	0.875
GAP_B.3 (V1	OL)	0.990	0.164	6.043	0.000	1.700	0.862
FAL_B.3 (V1	1L)	1.306	0.194	6.734	0.000	2.242	0.913
PRB.post =~							
LrnGU.3 (V	(18	1.000				1.654	0.856
PstRl.3 (V	9L)	1.054	0.155	6.795	0.000	1.744	0.868
GtAlP.3 (V1	OL)	0.990	0.164	6.043	0.000	1.638	0.854
FrnAL.3 (V1	1L)	1.306	0.194	6.734	0.000	2.160	0.907
RBA.rpre =~							
Fgh_B.3 (V1	2L)	1.000				1.197	0.768
F1H_B.3 (V1	3L)	1.155	0.164	7.043	0.000	1.383	0.810
RgW_B.3 (V1	4L)	1.329	0.183	7.272	0.000	1.592	0.847
RBA.post =~							
Fghts.3 (V1	2L)	1.000				1.466	0.826
FlngH.3 (V1	3L)	1.155	0.164	7.043	0.000	1.694	0.861
RghtW.3 (V1	4L)	1.329	0.183	7.272	0.000	1.949	0.890

Covariances:

	Estimate	Std.Err	z-value	P(> z)
HRS.rpre ~~				
HRS.post	0.526	0.426	1.235	0.217
PS.rpre	2.406	0.679	3.545	0.000

PS.post	0.210	0.314	0.668	0.504
PRB.rpre	1.933	0.555	3.481	0.000
PRB.post	-0.358	0.396	-0.906	0.365
RBA.rpre	1.465	0.461	3.178	0.001
RBA.post	0.291	0.352	0.825	0.410
HRS.post ~~				
PS.rpre	-0.084	0.327	-0.258	0.796
PS.post	2.682	0.606	4.427	0.000
PRB.rpre	0.714	0.418	1.709	0.087
PRB.post	2.136	0.590	3.619	0.000
RBA.rpre	0.463	0.308	1.504	0.133
RBA.post	2.328	0.572	4.069	0.000
PS.rpre ~~				
PS.post	0.018	0.265	0.067	0.947
PRB.rpre	1.452	0.370	3.919	0.000
PRB.post	-0.221	0.313	-0.707	0.480
RBA.rpre	1.036	0.312	3.325	0.001
RBA.post	0.059	0.313	0.189	0.850
PS.post ~~				
PRB.rpre	0.544	0.315	1.730	0.084
PRB.post	1.679	0.489	3.431	0.001
RBA.rpre	0.229	0.206	1.111	0.267
RBA.post	1.742	0.453	3.848	0.000
PRB.rpre ~~				
PRB.post	1.146	0.449	2.554	0.011
RBA.rpre	1.877	0.445	4.221	0.000
RBA.post	0.861	0.359	2.400	0.016
PRB.post ~~				
RBA.rpre	0.405	0.253	1.600	0.109
RBA.post	2.345	0.572	4.102	0.000
RBA.rpre ~~				
RBA.post	0.561	0.264	2.125	0.034
.Healthy_Rel_Before.3n ~~				
$. \verb Healthy_Rel.3n \\$	0.683	0.396	1.728	0.084
.Communicate_Before.3n ~~				
.Communicate.3n	0.838	0.415	2.017	0.044
.ConflictManagement_Before.3n ~~				
.CnflctMngmnt.3	0.414	0.282	1.468	0.142
.RightPartner_Before.3n ~~				
$.\mathtt{RightPartnr.3n}$	0.111	0.333	0.334	0.738
.LearnPartner_Before.3n ~~				
.LearnPartnr.3n	1.425	0.884	1.612	0.107
.PaceRelationship_Before.3n ~~				
$. {\tt PaceRltnshp.3n}$	1.079	0.743	1.453	0.146
.WarningSigns_Before.3n ~~				
.WarningSgns.3n	0.320	0.359	0.892	0.372
.LearnedGrowingUp_Before.3n ~~				
.LrndGrwngUp.3n	0.170	0.402	0.422	0.673

Dag+Rola	tionshing Refore 3n ~~				
	.PastRelationships_Before.3n ~~ .PstRltnshps.3n		0.480	2.237	0.025
	Parents_Before.3n ~~	1.073	3.100	2.20.	0.020
_	Prnts.3n	0.438	0.296	1.479	0.139
_	ipsAreLike_Before.3n ~~				
	psArLk.3	1.379	0.459	3.003	0.003
.Fights_B	efore.3n ~~				
.Fights	.3n	0.609	0.261	2.334	0.020
•	Hurt_Before.3n ~~				
	gsHrt.3n	0.584	0.376	1.551	0.121
_	Wrong_Before.3n ~~				
_	dWrng.3n	0.866	0.381	2.274	0.023
Std.lv	Std.all				
0 447	0.147				
0.147	0.147				
0.783	0.783				
0.075	0.075				
0.574	0.574				
-0.110	-0.110				
0.623	0.623				
0.101	0.101				
-0.030	-0.030				
1.030	1.030				
0.229	0.229				
0.711	0.711				
0.213	0.213				
0.874	0.874				
0.008	0.008				
0.540	0.540				
-0.085	-0.085				
0.553	0.553				
0.026	0.026				
0.221	0.221				
0.708	0.708				
0.133	0.133				
0.829	0.829				
0.404	0.404				
0.913	0.913				
0.342	0.342				
0.205	0.205				
0.967	0.967				
0.320	0.320				

0.683	0.683
0.838	0.838
0.414	0.414
0.111	0.111
1.425	1.425
1.079	1.079
0.320	0.991
0.170	0.170
1.073	1.073
0.438	0.438
1.379	1.379
0.609	0.609
0.584	0.584
0.866	0.866

Intercepts:

rtercepts:						
	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
HRS.rpre	0.000				0.000	0.000
HRS.post	3.794	0.544	6.979	0.000	2.088	2.088
PS.rpre	-1.973	0.297	-6.653	0.000	-1.261	-1.261
PS.post	1.603	0.210	7.621	0.000	1.118	1.118
PRB.rpre	-1.203	0.223	-5.402	0.000	-0.701	-0.701
PRB.post	1.492	0.237	6.287	0.000	0.902	0.902
RBA.rpre	-0.834	0.154	-5.435	0.000	-0.697	-0.697
RBA.post	1.424	0.223	6.396	0.000	0.971	0.971
.Hlthy_Rl_Bfr.3	0.000				0.000	0.000
.Commnct_Bfr.3n	0.000				0.000	0.000
$. {\tt CnflctMngm_B.3}$	0.000				0.000	0.000
.Healthy_Rel.3n	0.000				0.000	0.000
.Communicate.3n	0.000				0.000	0.000
$. {\tt CnflctMngmnt.3}$	0.000				0.000	0.000
.RghtPrtnr_Bf.3	0.000				0.000	0.000
.LrnPrtnr_Bfr.3	0.000				0.000	0.000
.PcRltnshp_Bf.3	0.000				0.000	0.000

.WrnngSgns_Bf.3	0.000				0.000	0.000
.RightPartnr.3n	0.000				0.000	0.000
.LearnPartnr.3n	0.000				0.000	0.000
.PaceRltnshp.3n	0.000				0.000	0.000
.WarningSgns.3n	0.000				0.000	0.000
$. LrndGrwngU_B.3$	0.000				0.000	0.000
$. PstRltnshp_B.3$	0.000				0.000	0.000
.GtAlngPrnt_B.3	0.000				0.000	0.000
$. {\tt FrndshpsAL_B.3}$	0.000				0.000	0.000
. LrndGrwngUp.3n	0.000				0.000	0.000
.PstRltnshps.3n	0.000				0.000	0.000
.GtAlngPrnts.3n	0.000				0.000	0.000
.FrndshpsArLk.3	0.000				0.000	0.000
.Fights_Befr.3n	0.000				0.000	0.000
.FlngsHrt_Bfr.3	0.000				0.000	0.000
.RghtndWrng_B.3	0.000				0.000	0.000
.Fights.3n	0.000				0.000	0.000
.FeelingsHrt.3n	0.000				0.000	0.000
.RightndWrng.3n	0.000				0.000	0.000
***************************************	0.000				0.000	0.000
Thresholds:						
iniconorab.	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
H_R_B.3 (V1t1)	0.513	0.283	1.815	0.070	0.513	0.227
H_R_B.3 (V1t1)	3.775	0.580	6.507	0.000	3.775	1.668
H_R.3 1 (V1t1)	0.513	0.283	1.815	0.000	0.513	0.241
-						
H_R.3 2 (V1t2)	3.775	0.580	6.507	0.000	3.775	1.773
C_B.3 1 (V2t1)	0.401	0.264	1.516	0.130	0.401	0.182
C_B.3 2 (V2t2)	3.713	0.521	7.133	0.000	3.713	1.686
Cmm.3 1 (V2t1)	0.401	0.264	1.516	0.130	0.401	0.193
Cmm.3 2 (V2t2)	3.713	0.521	7.133	0.000	3.713	1.790
CM_B.3 (V3t1)	0.662	0.228	2.901	0.004	0.662	0.370
CM_B.3 (V3t2)	3.122	0.322	9.691	0.000	3.122	1.747
CnM.3 1 (V3t1)		0.228		0.004		0.390
CnM.3 2 (V3t2)	3.122	0.322	9.691	0.000	3.122	1.840
RP_B.3 (V4t1)		0.158	-4.464	0.000	-0.705	-0.379
RP_B.3 (V4t2)	1.726	0.193	8.929	0.000	1.726	0.929
RgP.3 1 (V4t1)	-0.705	0.158	-4.464	0.000	-0.705	-0.403
RgP.3 2 (V4t2)	1.726	0.193	8.929	0.000	1.726	0.988
LP_B.3 (V5t1)	-2.504	0.526	-4.758	0.000	-2.504	-0.732
LP_B.3 (V5t2)	2.463	0.469	5.247	0.000	2.463	0.720
LrP.3 1 (V5t1)	-2.504	0.526	-4.758	0.000	-2.504	-0.793
LrP.3 2 (V5t2)	2.463	0.469	5.247	0.000	2.463	0.779
PR_B.3 (V6t1)	-1.532	0.268	-5.719	0.000	-1.532	-0.563
PR_B.3 (V6t2)	2.144	0.310	6.911	0.000	2.144	0.788
PcR.3 1 (V6t1)	-1.532	0.268	-5.719	0.000	-1.532	-0.607
PcR.3 2 (V6t2)	2.144	0.310	6.911	0.000	2.144	0.849
WS_B.3 (V7t1)	-1.628	0.387	-4.210	0.000	-1.628	-0.756
WS_B.3 (V7t2)	1.557	0.365	4.269	0.000	1.557	0.723

WrS.3 1 (V7t1)	-1.628	0.387	-4.210	0.000	-1.628	-0.917
WrS.3 2 (V7t2)	1.557	0.365	4.269	0.000	1.557	0.877
LGU_B.3 (V8t1)	-1.140	0.155	-7.355	0.000	-1.140	-0.574
LGU_B.3 (V8t2)	1.227	0.161	7.622	0.000	1.227	0.618
LGU.3 1 (V8t1)	-1.140	0.155	-7.355	0.000	-1.140	-0.590
LGU.3 2 (V8t2)	1.227	0.161	7.622	0.000	1.227	0.635
PR_B.3 (V9t1)	-1.294	0.195	-6.622	0.000	-1.294	-0.626
PR_B.3 (V9t2)		0.156	5.303	0.000	0.826	0.399
PsR.3 1 (V9t1)		0.195	-6.622	0.000	-1.294	-0.643
PsR.3 2 (V9t2)		0.156	5.303	0.000	0.826	0.411
GAP_B.3 (V101)		0.155	-7.886	0.000	-1.219	-0.618
GAP_B.3 (V102)		0.141	5.196	0.000	0.730	0.370
GAP.3 1 (V101)		0.155	-7.886	0.000	-1.219	-0.635
GAP.3 2 (V102)		0.141	5.196	0.000	0.730	0.381
FAL_B.3 (V111)		0.179	-8.871	0.000	-1.588	-0.647
FAL_B.3 (V112)		0.161	6.098	0.000	0.983	0.400
FAL.3 1 (V111)		0.179	-8.871	0.000	-1.588	-0.667
FAL.3 2 (V112)		0.161	6.098	0.000	0.983	0.413
F_B.3 1 (V121)		0.132	-7.657	0.000	-1.010	-0.648
F_B.3 2 (V122)		0.127	5.425	0.000	0.691	0.443
Fgh.3 1 (V121)		0.132	-7.657	0.000	-1.010	-0.569
Fgh.3 2 (V122)		0.127	5.425	0.000	0.691	0.389
FH_B.3 (V131)		0.145	-10.140	0.000	-1.466	-0.859
FH_B.3 (V132)		0.142	5.229	0.000	0.740	0.434
F1H.3 1 (V131)		0.145	-10.140	0.000	-1.466	-0.745
F1H.3 2 (V132)		0.142	5.229	0.000	0.740	0.376
RW_B.3 (V141)		0.167	-10.928	0.000	-1.826	-0.971
RW_B.3 (V142)		0.128	4.462	0.000	0.570	0.303
RgW.3 1 (V141)		0.167	-10.928	0.000	-1.826	-0.833
RgW.3 2 (V142)		0.128	4.462	0.000	0.570	0.260
.0						
Variances:						
	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
HRS.rpre	3.853	1.465	2.629	0.009	1.000	1.000
HRS.post	3.301	0.905	3.646	0.000	1.000	1.000
PS.rpre	2.451	0.663	3.696	0.000	1.000	1.000
PS.post	2.055	0.618	3.328	0.001	1.000	1.000
PRB.rpre	2.946	0.836	3.522	0.000	1.000	1.000
PRB.post	2.736	0.878	3.116	0.002	1.000	1.000
RBA.rpre	1.434	0.430	3.334	0.001	1.000	1.000
RBA.post	2.150	0.627	3.430	0.001	1.000	1.000
.Hlthy_Rl_Bfr.3					1.000	0.195
.Commnct_Bfr.3r					1.000	0.206
.CnflctMngm_B.3					1.000	0.313
.RghtPrtnr_Bf.3					1.000	0.290
.LrnPrtnr_Bfr.3					1.000	0.085
.PcRltnshp_Bf.3					1.000	0.135
.WrnngSgns_Bf.3					1.000	0.216
3 G -						

$. LrndGrwngU_B.3$	1.000				1.000	0.253
$. {\tt PstRltnshp_B.3}$	1.000				1.000	0.234
$. {\tt GtAlngPrnt_B.3}$	1.000				1.000	0.257
.FrndshpsAL_B.3	1.000				1.000	0.166
.Fights_Befr.3n	1.000				1.000	0.411
.FlngsHrt_Bfr.3	1.000				1.000	0.343
.RghtndWrng_B.3	1.000				1.000	0.283
.Healthy_Rel.3n	1.000				1.000	0.220
.Communicate.3n	1.000				1.000	0.232
.CnflctMngmnt.3	1.000				1.000	0.348
.RightPartnr.3n	1.000				1.000	0.327
.LearnPartnr.3n	1.000				1.000	0.100
.PaceRltnshp.3n	1.000				1.000	0.157
.WarningSgns.3n	0.104	0.137	0.763	0.446	0.104	0.033
.LrndGrwngUp.3n	1.000				1.000	0.268
.PstRltnshps.3n	1.000				1.000	0.247
.GtAlngPrnts.3n	1.000				1.000	0.272
.FrndshpsArLk.3	1.000				1.000	0.176
.Fights.3n	1.000				1.000	0.317
.FeelingsHrt.3n	1.000				1.000	0.258
.RightndWrng.3n	1.000				1.000	0.208
· ivigironawing · on	1.000				1.000	0.200
Scales y*:						
beares y	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
Hlthy_Rl_Bfr.3	0.442	Dua.hii	Z varuc	1 (7 2)	0.442	1.000
Community_RI.3n	0.454				0.454	1.000
CnflctMngm_B.3	0.560				0.560	1.000
-	0.470				0.470	1.000
Healthy_Rel.3n Communicate.3n	0.470				0.470	1.000
					0.462	
CnflctMngmnt.3	0.590					1.000
RghtPrtnr_Bf.3	0.538				0.538	
LrnPrtnr_Bfr.3	0.292				0.292	1.000
PcRltnshp_Bf.3	0.367				0.367	1.000
WrnngSgns_Bf.3	0.465				0.465	1.000
RightPartnr.3n	0.572				0.572	1.000
LearnPartnr.3n	0.316				0.316	1.000
PaceRltnshp.3n	0.396				0.396	1.000
WarningSgns.3n	0.563				0.563	1.000
LrndGrwngU_B.3	0.503				0.503	1.000
PstRltnshp_B.3	0.484				0.484	1.000
GtAlngPrnt_B.3	0.507				0.507	1.000
FrndshpsAL_B.3	0.407				0.407	1.000
LrndGrwngUp.3n	0.517				0.517	1.000
PstRltnshps.3n	0.497				0.497	1.000
GtAlngPrnts.3n	0.521				0.521	1.000
FrndshpsArLk.3	0.420				0.420	1.000
Fights_Befr.3n	0.641				0.641	1.000
FlngsHrt_Bfr.3	0.586				0.586	1.000

RghtndWrng_B.3	0.532	0.532	1.000
Fights.3n	0.563	0.563	1.000
FeelingsHrt.3n	0.508	0.508	1.000
RightndWrng.3n	0.456	0.456	1.000

```
6.4.10 Model Comparison
lavaan::anova(Fit.Rcomb.model.c.thresh, Fit.Rcomb.model.c.uniq)
Scaled Chi Square Difference Test (method = "satorra.2000")
                          Df AIC BIC Chisq Chisq diff Df diff Pr(>Chisq)
Fit.Rcomb.model.c.thresh 314
                                     230.75
                                     267.41
                                                            24 0.0007267
Fit.Rcomb.model.c.uniq
                         338
                                                52.246
Fit.Rcomb.model.c.thresh
Fit.Rcomb.model.c.uniq
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
6.4.11 Modification Indices
Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star
                  variables involved are: HRS.post PS.post
Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star
                  variables involved are: LearnPartner_Before.3n LearnPartner.3n
Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star
```

variables involved are: PaceRelationship_Before.3n PaceRelationship.3n
Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: start

variables involved are: PastRelationships_Before.3n PastRelationships.3n

Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star variables involved are: FriendshipsAreLike_Before.3n FriendshipsAreLike.3n

	lhs o	р	rhs	mi
1	PRB.post =	-~	Communicate.3n	149.30042
2	$\mathtt{HRS.post} =$	-~	RightPartner.3n	98.21402
3	Communicate.3n ~	~~	LearnPartner.3n	62.11416
4	$\mathtt{HRS.post} =$	-~	LearnPartner.3n	40.25923
5	Healthy_Rel.3n ~	~~	Healthy_Rel.3n	32.60546
6	PS.post =	-~	Healthy_Rel.3n	31.00037
7	LearnPartner.3n ~	~~	LearnPartner.3n	28.57890
8	PS.post =	-~	RightPartner.3n	28.07451
9	PS.post =	-~	${\tt ConflictManagement.3n}$	23.94081
10	ConflictManagement.3n ~	~~	RightPartner.3n	23.71559
11	ConflictManagement.3n ~	~~	${\tt ConflictManagement.3n}$	18.20641
12	HRS.post =	-~	WarningSigns.3n	15.32872
13	PaceRelationship.3n ~	~~	PaceRelationship.3n	15.29772
14	HRS.rpre =	-~	PastRelationships_Before.3n	14.76746
15	PastRelationships.3n ~	~~	PastRelationships.3n	13.57652
16	Communicate_Before.3n ~	~~	Communicate_Before.3n	13.37594

```
17
                      RBA.rpre =~
                                        Communicate_Before.3n
                                                               12.63158
18
                      RBA.rpre =~ PastRelationships_Before.3n
                                                               12.55824
                                                               12.55201
19
  PastRelationships_Before.3n ~~ PastRelationships_Before.3n
20
                      PRB.rpre =~
                                         PastRelationships.3n
                                                               11.95017
                                        Healthy Rel Before.3n
21
                      RBA.rpre =~
                                                               11.71889
22
                      PRB.rpre =~
                                        Healthy Rel Before.3n
                                                               11.64073
23
                      RBA.post =~
                                              LearnPartner.3n
                                                               11.37479
24
                      PRB.rpre =~
                                        Communicate Before.3n 11.03232
25
                      PRB.post =~
                                   PaceRelationship Before.3n
                                                               10.85531
26
                      PS.post =~
                                         PastRelationships.3n
                                                               10.65765
27
                      HRS.post =~
                                         PastRelationships.3n
                                                               10.63262
28
                       PS.rpre =~
                                        Communicate_Before.3n
                                                               10.60403
29
                                   PaceRelationship_Before.3n
                      RBA.post =~
                                                               10.46838
                 sepc.lv
                           sepc.all
                                      sepc.nox
          ерс
1
    3.1821249
               5.2634360
                          2.5378332
                                     2.5378332
2
    3.8253309
               6.9505611
                          3.9763100
                                     3.9763100
3
    2.7620198
               2.7620198
                          2.7620198
                                     2.7620198
4
    1.8505102
               3.3623454
                          1.0641679
                                     1.0641679
5
  -3.4294311 -1.0000000 -0.2204907 -0.2204907
6
    1.3008613
               1.8650372
                         0.8757549
                                     0.8757549
7
  -5.4702474 -1.0000000 -0.1001695 -0.1001695
8
    3.4502148 4.9465525
                          2.8298472
                                     2.8298472
   0.7846461 1.1249425
                          0.6631706
                                     0.6631706
   0.8225917
               0.8225917
                          0.8225917
                                     0.8225917
11 -1.7242269 -1.0000000 -0.3475280 -0.3475280
   0.6349425
               1.1536798
                         0.6500134
                                     0.6500134
13 -2.5176131 -1.0000000 -0.1568085 -0.1568085
14 -0.3190732 -0.6262927 -0.3028914 -0.3028914
15 -1.5867942 -1.0000000 -0.2474132 -0.2474132
   1.8369050
              1.0000000 0.2060675
                                    0.2060675
17 -0.5349128 -0.6405578 -0.2907790 -0.2907790
18 -0.8350080 -0.9999217 -0.4835881 -0.4835881
   1.5163580
              1.0000000 0.2338941
                                     0.2338941
20 -0.2323085 -0.3987357 -0.1983337 -0.1983337
                         0.2714322
                                     0.2714322
   0.5131743
              0.6145260
22
   0.3196986
               0.5487326
                          0.2423717
                                     0.2423717
   0.7815224 1.1459094
                         0.3626754
                                     0.3626754
24 -0.3112144 -0.5341703 -0.2424848 -0.2424848
   0.1777075
                         0.2457871
26
   0.3446601
              0.4941372
                                     0.2457871
   0.2484861 0.4514950
                         0.2245766
                                     0.2245766
28 -0.4788475 -0.7496311 -0.3402925 -0.3402925
29 0.3073757 0.4506904 0.1655510
                                    0.1655510
```

6.4.12 Unique Factor Invariant 2

Warning in law_object_post_check(object): lawaan WARNING: covariance matrix of latent variable is not positive definite;
use inspect(fit, "cov.lv") to investigate.

lavaan (0.6-1) converged normally after 221 iterations

Ç ,				
		Used	Total	
Number of observations		111	134	
Estimator		DWLS	Robust	
Model Fit Test Statistic	2	72.748	404.011	
Degrees of freedom		338	338	
P-value (Chi-square)		0.996	0.008	
Scaling correction factor			1.458	
Shift parameter			216.959	
for simple second-order correction	(Mplus va	riant)		
Model test baseline model:				
Minimum Function Test Statistic	186	02.907	4580.137	
Degrees of freedom		378	378	
P-value		0.000	0.000	
User model versus baseline model:				
Comparative Fit Index (CFI)		1.000	0.984	
Tucker-Lewis Index (TLI)		1.004	0.982	
Robust Comparative Fit Index (CFI)			NA	
Robust Tucker-Lewis Index (TLI)			NA	
Root Mean Square Error of Approximation	:			
RMSEA		0.000	0.042	
90 Percent Confidence Interval	0.000	0.000	0.023	0.057
P-value RMSEA <= 0.05		1.000	0.795	
Robust RMSEA			NA	
90 Percent Confidence Interval			NA	NA
Standardized Root Mean Square Residual:				

Parameter Estimates:

 ${\tt SRMR}$

0.082

Information	Expected
Information saturated (h1) m	nodel Unstructured
Standard Errors	Robust.sem

Latent	Variables:	

Latent Valla	mres.						
		Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
HRS.rpre =	-~						
$H_R_B.3$		1.000				2.567	0.932
Cmm_B.3	(V2L)	0.735	0.306	2.407	0.016	1.888	0.884
$CnM_B.3$	(V3L)	0.562	0.218	2.575	0.010	1.442	0.822
HRS.post =	-~						
Hlt_R.3		1.000				2.450	0.871
Cmmnc.3	(V2L)	0.735	0.306	2.407	0.016	1.802	0.874
CnflM.3	(V3L)	0.562	0.218	2.575	0.010	1.377	0.809
PS.rpre =~	•						
RgP_B.3	(V4L)	1.000				1.514	0.834
LrP_B.3	(V5L)	2.078	0.464	4.480	0.000	3.147	0.953
PcR_B.3	(V6L)	1.646	0.298	5.531	0.000	2.493	0.928
WrS_B.3	(V7L)	2.503	0.719	3.481	0.001	3.790	0.967
PS.post =~	•						
RghtP.3	(V4L)	1.000				1.446	0.822
LrnPr.3	(V5L)	2.078	0.464	4.480	0.000	3.004	0.949
PcRlt.3	(V6L)	1.646	0.298	5.531	0.000	2.381	0.922
WrnnS.3	(V7L)	2.503	0.719	3.481	0.001	3.619	0.964
PRB.rpre =	-~						
LGU_B.3	(V8L)	1.000				1.716	0.864
PsR_B.3	(V9L)	1.055	0.155	6.791	0.000	1.811	0.875
GAP_B.3	(V10L)	0.990	0.164	6.050	0.000	1.699	0.862
FAL_B.3	(V11L)	1.307	0.194	6.735	0.000	2.242	0.913
PRB.post =	-~						
LrnGU.3	(V8L)	1.000				1.654	0.856
PstRl.3	(V9L)	1.055	0.155	6.791	0.000	1.745	0.868
GtAlP.3	(V10L)	0.990	0.164	6.050	0.000	1.637	0.853
FrnAL.3	(V11L)	1.307	0.194	6.735	0.000	2.161	0.908
RBA.rpre =	-~						
Fgh_B.3	(V12L)	1.000				1.196	0.767
FlH_B.3	(V13L)	1.157	0.164	7.048	0.000	1.384	0.811
RgW_B.3	(V14L)	1.331	0.183	7.286	0.000	1.593	0.847
RBA.post =	-~						
Fghts.3	(V12L)	1.000				1.465	0.826
FlngH.3	(V13L)	1.157	0.164	7.048	0.000	1.695	0.861
RghtW.3	(V14L)	1.331	0.183	7.286	0.000	1.950	0.890

Covariances:

	Estimate	Std.Err	z-value	P(> z)
HRS.rpre ~~				
HRS.post	0.926	1.003	0.923	0.356
PS.rpre	2.962	1.159	2.555	0.011

PS.post	0.269	0.420	0.639	0.523
PRB.rpre	2.506	1.004	2.495	0.013
PRB.post	-0.458	0.517	-0.885	0.376
RBA.rpre	1.898	0.768	2.471	0.013
RBA.post	0.381	0.485	0.786	0.432
HRS.post ~~				
PS.rpre	-0.116	0.426	-0.272	0.786
PS.post	3.683	1.660	2.219	0.026
PRB.rpre	0.967	0.646	1.497	0.134
PRB.post	2.894	1.412	2.050	0.040
RBA.rpre	0.627	0.439	1.429	0.153
RBA.post	3.152	1.503	2.098	0.036
PS.rpre ~~				
PS.post	0.012	0.254	0.048	0.962
PRB.rpre	1.379	0.354	3.899	0.000
PRB.post	-0.208	0.296	-0.702	0.482
RBA.rpre	0.982	0.293	3.349	0.001
RBA.post	0.058	0.296	0.197	0.844
PS.post ~~				
PRB.rpre	0.551	0.319	1.729	0.084
PRB.post	1.701	0.495	3.436	0.001
RBA.rpre	0.230	0.208	1.106	0.269
RBA.post	1.766	0.458	3.853	0.000
PRB.rpre ~~				
PRB.post	1.145	0.448	2.555	0.011
RBA.rpre	1.875	0.444	4.224	0.000
RBA.post	0.860	0.358	2.401	0.016
PRB.post ~~				
RBA.rpre	0.405	0.253	1.601	0.109
RBA.post	2.341	0.570	4.106	0.000
RBA.rpre ~~				
RBA.post	0.560	0.263	2.127	0.033
.Healthy_Rel_Before.3n ~~				
.Healthy_Rel.3n	1.079	0.938	1.150	0.250
.Communicate_Before.3n ~~				
.Communicate.3n	0.813	0.402	2.022	0.043
.ConflictManagement_Before.3n ~~				
.CnflctMngmnt.3	0.410	0.278	1.474	0.140
.RightPartner_Before.3n ~~				
.RightPartnr.3n	0.114	0.328	0.349	0.727
.LearnPartner_Before.3n ~~	****	0.020	0.010	01121
.LearnPartnr.3n	1.400	0.855	1.637	0.102
.PaceRelationship_Before.3n ~~		0.000	_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	01101
.PaceRltnshp.3n	1.102	0.753	1.463	0.143
.WarningSigns_Before.3n ~~	1.102	0.700	1.100	0.110
.WarningSgns.3n	1.258	1.376	0.914	0.361
.LearnedGrowingUp_Before.3n ~~	1.200			
.LrndGrwngUp.3n	0.170	0.402	0.422	0.673
	0.110	0.102	V. 122	0.010

Pag+Rola:	tionships_Before.3n ~~				
	nshps.3n	1.074	0.480	2.237	0.025
	Parents_Before.3n ~~	1.011	3.100	2.201	3.020
_	Prnts.3n	0.438	0.296	1.479	0.139
_	ipsAreLike_Before.3n ~~				
.FrndshpsArLk.3		1.379	0.459	3.002	0.003
.Fights_Before.3n ~~					
.Fights	.3n	0.608	0.260	2.335	0.020
.FeelingsHurt_Before.3n ~~					
.Feeling	gsHrt.3n	0.584	0.377	1.550	0.121
.Rightand	Wrong_Before.3n ~~				
_	dWrng.3n	0.867	0.381	2.273	0.023
Std.lv	Std.all				
0.147	0.147				
0.762	0.762				
0.072	0.072				
0.569	0.569				
-0.108	-0.108				
0.618	0.618				
0.101	0.101				
-0.031	-0.031				
1.040	1.040				
0.230	0.230				
0.714	0.714				
0.214	0.214				
0.878	0.878				
0.006	0.006				
0.531	0.531				
-0.083	-0.083				
0.542	0.542				
0.026	0.026				
0.222	0.222				
0.711	0.711				
0.133	0.133				
0.834	0.834				
0.404	0.404				
0.913	0.913				
0.342	0.342				
0.205	0.205				
0.967	0.967				
0.320	0.320				

1.079	0.779
0.813	0.813
0.410	0.410
0.114	0.114
1.400	1.400
1.102	1.102
1.258	1.258
0.170	0.170
1.074	1.074
0.438	0.438
1.379	1.379
0.608	0.608
0.584	0.584
0.867	0.867

Intercepts:

-						
	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
HRS.rpre	0.000				0.000	0.000
HRS.post	5.018	1.902	2.638	0.008	2.048	2.048
PS.rpre	-1.854	0.274	-6.778	0.000	-1.224	-1.224
PS.post	1.651	0.218	7.586	0.000	1.142	1.142
PRB.rpre	-1.194	0.222	-5.376	0.000	-0.696	-0.696
PRB.post	1.500	0.237	6.320	0.000	0.907	0.907
RBA.rpre	-0.815	0.152	-5.346	0.000	-0.681	-0.681
RBA.post	1.441	0.223	6.472	0.000	0.984	0.984
.Hlthy_Rl_Bfr.3	0.000				0.000	0.000
.Commnct_Bfr.3n	0.000				0.000	0.000
.CnflctMngm_B.3	0.000				0.000	0.000
.Healthy_Rel.3n	0.000				0.000	0.000
.Communicate.3n	0.000				0.000	0.000
.CnflctMngmnt.3	0.000				0.000	0.000
.RghtPrtnr_Bf.3	0.000				0.000	0.000
.LrnPrtnr_Bfr.3	0.000				0.000	0.000
.PcRltnshp_Bf.3	0.000				0.000	0.000

.WrnngSgns_Bf.3 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
LearnPartnr.3n
.PaceRltnshp.3n 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
WarningSgns.3n 0.000 0.0
LrndGrwngU_B.3
PstRltnsnpB.3
GtAlngPrnt_B.3
FrindshpsAL_B.3
LrndGrwngUp.3n 0.000 0.0
PstRltnshps.3n 0.000 0.0
O.000 O.00
.FrndshpsArLk.3 0.000 0.000 0.000 0.000 .Fights_Befr.3n 0.000 0.000 0.000 0.000 .FlngsHrt_Bfr.3 0.000 0.000 0.000 0.000 .RghtndWrng_B.3 0.000 0.000 0.000 0.000 .Fights.3n 0.000 0.000 0.000 0.000 .FeelingsHrt.3n 0.000 0.000 0.000 0.000 .RightndWrng.3n 0.000 0.000 0.000 0.000 .RightndWrng.3n 0.000 0.000 0.000 0.000 Estimate Std.Err z-value P(> z) Std.lv Std.all H_R.B.3 (V1t1) 0.618 0.387 1.595 0.111 0.618 0.224 H_R.B.3 (V1t2) 4.763 1.688 2.822 0.005 4.763 1.729 H_R.3 (V1t1) 0.618 0.387 1.595 0.111 0.618 0.219 H_R.3 (V1t2) 4.763 1.688 2.822 0.005 4.763 1.692 C_B.3 (V1t2) 0.368 0.261 1.410
.Fights_Befr.3n 0.000
Stime
Stime
.RghtndWrng_B.3 0.000 0.001
.Fights.3n 0.000 0.000 .FeelingsHrt.3n 0.000 0.000 .RightndWrng.3n 0.000 0.000 Thresholds: Estimate Std.Err z-value P(> z) Std.lv Std.all H_R_B.3 (V1t1) 0.618 0.387 1.595 0.111 0.618 0.224 H_R_B.3 (V1t2) 4.763 1.688 2.822 0.005 4.763 1.729 H_R.3 1 (V1t1) 0.618 0.387 1.595 0.111 0.618 0.219 H_R.3 2 (V1t2) 4.763 1.688 2.822 0.005 4.763 1.692 C_B.3 1 (V2t1) 0.368 0.261 1.410 0.159 0.368 0.172 C_B.3 2 (V2t2) 3.607 0.517 6.979 0.000 3.607 1.688 Cmm.3 1 (V2t1) 0.368 0.261 1.410 0.159 0.368 0.179 Cmm.3 2 (V2t2) 3.607 0.517 6.979 0.000 3.607 1.750 CM_B.3 (V3t1) 0.635 0.225 2.820 0.005
RightndWrng.3n 0.000 0.000 0.000 0.000 0.000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00
RightndWrng.3n 0.000 0.000 0.000 Thresholds: Estimate Std.Err z-value P(> z) Std.lv Std.all H_R_B.3 (V1t1) 0.618 0.387 1.595 0.111 0.618 0.224 H_R_B.3 (V1t2) 4.763 1.688 2.822 0.005 4.763 1.729 H_R.3 1 (V1t1) 0.618 0.387 1.595 0.111 0.618 0.219 H_R.3 2 (V1t2) 4.763 1.688 2.822 0.005 4.763 1.692 C_B.3 1 (V2t1) 0.368 0.261 1.410 0.159 0.368 0.172 C_B.3 2 (V2t2) 3.607 0.517 6.979 0.000 3.607 1.688 Cmm.3 1 (V2t1) 0.368 0.261 1.410 0.159 0.368 0.179 Cmm.3 2 (V2t2) 3.607 0.517 6.979 0.000 3.607 1.750 CM_B.3 (V3t1) 0.635 0.225 2.820 0.005 0.635
Thresholds: Estimate Std.Err z-value P(> z) Std.lv Std.all H_R_B.3 (V1t1) 0.618 0.387 1.595 0.111 0.618 0.224 H_R_B.3 (V1t2) 4.763 1.688 2.822 0.005 4.763 1.729 H_R.3 1 (V1t1) 0.618 0.387 1.595 0.111 0.618 0.219 H_R.3 2 (V1t2) 4.763 1.688 2.822 0.005 4.763 1.692 C_B.3 1 (V2t1) 0.368 0.261 1.410 0.159 0.368 0.172 C_B.3 2 (V2t2) 3.607 0.517 6.979 0.000 3.607 1.688 Cmm.3 1 (V2t1) 0.368 0.261 1.410 0.159 0.368 0.179 Cmm.3 2 (V2t2) 3.607 0.517 6.979 0.000 3.607 1.688 Cmm.3 1 (V2t1) 0.368 0.261 1.410 0.159 0.368 0.179 Cmm.3 2 (V2t2) 3.607 0.517 6.979 0.000 3.607 1.750 CM_B.3 (V3t1) 0.635 0.225 2.820 0.005 0.635 0.362 CM_B.3 (V3t2) 3.077 0.316 9.732 0.000 3.077 1.753 CnM.3 1 (V3t1) 0.635 0.225 2.820 0.005 0.635 0.373 CnM.3 2 (V3t2) 3.077 0.316 9.732 0.000 3.077 1.808
Estimate Std.Err z-value P(> z) Std.lv Std.all H_R_B.3 (V1t1) 0.618 0.387 1.595 0.111 0.618 0.224 H_R_B.3 (V1t2) 4.763 1.688 2.822 0.005 4.763 1.729 H_R.3 1 (V1t1) 0.618 0.387 1.595 0.111 0.618 0.219 H_R.3 2 (V1t2) 4.763 1.688 2.822 0.005 4.763 1.692 C_B.3 1 (V2t1) 0.368 0.261 1.410 0.159 0.368 0.172 C_B.3 2 (V2t2) 3.607 0.517 6.979 0.000 3.607 1.688 Cmm.3 1 (V2t1) 0.368 0.261 1.410 0.159 0.368 0.179 Cmm.3 2 (V2t2) 3.607 0.517 6.979 0.000 3.607 1.750 CM_B.3 (V3t1) 0.635 0.225 2.820 0.005 0.635 0.362 CM_B.3 (V3t2) 3.077 0.316 9.732 0.005 0.635 0.373<
Estimate Std.Err z-value P(> z) Std.lv Std.all H_R_B.3 (V1t1) 0.618 0.387 1.595 0.111 0.618 0.224 H_R_B.3 (V1t2) 4.763 1.688 2.822 0.005 4.763 1.729 H_R.3 1 (V1t1) 0.618 0.387 1.595 0.111 0.618 0.219 H_R.3 2 (V1t2) 4.763 1.688 2.822 0.005 4.763 1.692 C_B.3 1 (V2t1) 0.368 0.261 1.410 0.159 0.368 0.172 C_B.3 2 (V2t2) 3.607 0.517 6.979 0.000 3.607 1.688 Cmm.3 1 (V2t1) 0.368 0.261 1.410 0.159 0.368 0.179 Cmm.3 2 (V2t2) 3.607 0.517 6.979 0.000 3.607 1.750 CM_B.3 (V3t1) 0.635 0.225 2.820 0.005 0.635 0.362 CM_B.3 (V3t2) 3.077 0.316 9.732 0.005 0.635 0.373<
H_R_B.3 (V1t1) 0.618 0.387 1.595 0.111 0.618 0.224 H_R_B.3 (V1t2) 4.763 1.688 2.822 0.005 4.763 1.729 H_R.3 1 (V1t1) 0.618 0.387 1.595 0.111 0.618 0.219 H_R.3 2 (V1t2) 4.763 1.688 2.822 0.005 4.763 1.692 C_B.3 1 (V2t1) 0.368 0.261 1.410 0.159 0.368 0.172 C_B.3 2 (V2t2) 3.607 0.517 6.979 0.000 3.607 1.688 Cmm.3 1 (V2t1) 0.368 0.261 1.410 0.159 0.368 0.179 Cmm.3 2 (V2t2) 3.607 0.517 6.979 0.000 3.607 1.750 CM_B.3 (V3t1) 0.635 0.225 2.820 0.005 0.635 0.362 CM_B.3 (V3t2) 3.077 0.316 9.732 0.000 3.077 1.753 CnM.3 1 (V3t1) 0.635 0.225 2.820 0.005 0.635 0.373 CnM.3 2 (V3t2) 3.077 0.316 9.732 <
H_R_B.3 (V1t2) 4.763 1.688 2.822 0.005 4.763 1.729 H_R.3 1 (V1t1) 0.618 0.387 1.595 0.111 0.618 0.219 H_R.3 2 (V1t2) 4.763 1.688 2.822 0.005 4.763 1.692 C_B.3 1 (V2t1) 0.368 0.261 1.410 0.159 0.368 0.172 C_B.3 2 (V2t2) 3.607 0.517 6.979 0.000 3.607 1.688 Cmm.3 1 (V2t1) 0.368 0.261 1.410 0.159 0.368 0.179 Cmm.3 2 (V2t2) 3.607 0.517 6.979 0.000 3.607 1.750 CM_B.3 (V3t1) 0.635 0.225 2.820 0.005 0.635 0.362 CM_B.3 (V3t2) 3.077 0.316 9.732 0.000 3.077 1.753 CnM.3 1 (V3t1) 0.635 0.225 2.820 0.005 0.635 0.373 CnM.3 2 (V3t2) 3.077 0.316 9.732 0.000 3.077 1.808
H_R.3 1 (V1t1) 0.618 0.387 1.595 0.111 0.618 0.219 H_R.3 2 (V1t2) 4.763 1.688 2.822 0.005 4.763 1.692 C_B.3 1 (V2t1) 0.368 0.261 1.410 0.159 0.368 0.172 C_B.3 2 (V2t2) 3.607 0.517 6.979 0.000 3.607 1.688 Cmm.3 1 (V2t1) 0.368 0.261 1.410 0.159 0.368 0.179 Cmm.3 2 (V2t2) 3.607 0.517 6.979 0.000 3.607 1.750 CM_B.3 (V3t1) 0.635 0.225 2.820 0.005 0.635 0.362 CM_B.3 (V3t2) 3.077 0.316 9.732 0.000 3.077 1.753 CnM.3 1 (V3t1) 0.635 0.225 2.820 0.005 0.635 0.373 CnM.3 2 (V3t2) 3.077 0.316 9.732 0.000 3.077 1.808
H_R.3 2 (V1t2) 4.763 1.688 2.822 0.005 4.763 1.692 C_B.3 1 (V2t1) 0.368 0.261 1.410 0.159 0.368 0.172 C_B.3 2 (V2t2) 3.607 0.517 6.979 0.000 3.607 1.688 Cmm.3 1 (V2t1) 0.368 0.261 1.410 0.159 0.368 0.179 Cmm.3 2 (V2t2) 3.607 0.517 6.979 0.000 3.607 1.750 CM_B.3 (V3t1) 0.635 0.225 2.820 0.005 0.635 0.362 CM_B.3 (V3t2) 3.077 0.316 9.732 0.000 3.077 1.753 CnM.3 1 (V3t1) 0.635 0.225 2.820 0.005 0.635 0.373 CnM.3 2 (V3t2) 3.077 0.316 9.732 0.000 3.077 1.808
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C_B.3 2 (V2t2) 3.607 0.517 6.979 0.000 3.607 1.688 Cmm.3 1 (V2t1) 0.368 0.261 1.410 0.159 0.368 0.179 Cmm.3 2 (V2t2) 3.607 0.517 6.979 0.000 3.607 1.750 CM_B.3 (V3t1) 0.635 0.225 2.820 0.005 0.635 0.362 CM_B.3 (V3t2) 3.077 0.316 9.732 0.000 3.077 1.753 CnM.3 1 (V3t1) 0.635 0.225 2.820 0.005 0.635 0.373 CnM.3 2 (V3t2) 3.077 0.316 9.732 0.000 3.077 1.808
Cmm.3 1 (V2t1) 0.368 0.261 1.410 0.159 0.368 0.179 Cmm.3 2 (V2t2) 3.607 0.517 6.979 0.000 3.607 1.750 CM_B.3 (V3t1) 0.635 0.225 2.820 0.005 0.635 0.362 CM_B.3 (V3t2) 3.077 0.316 9.732 0.000 3.077 1.753 CnM.3 1 (V3t1) 0.635 0.225 2.820 0.005 0.635 0.373 CnM.3 2 (V3t2) 3.077 0.316 9.732 0.000 3.077 1.808
Cmm.3 2 (V2t2) 3.607 0.517 6.979 0.000 3.607 1.750 CM_B.3 (V3t1) 0.635 0.225 2.820 0.005 0.635 0.362 CM_B.3 (V3t2) 3.077 0.316 9.732 0.000 3.077 1.753 CnM.3 1 (V3t1) 0.635 0.225 2.820 0.005 0.635 0.373 CnM.3 2 (V3t2) 3.077 0.316 9.732 0.000 3.077 1.808
CM_B.3 (V3t1) 0.635 0.225 2.820 0.005 0.635 0.362 CM_B.3 (V3t2) 3.077 0.316 9.732 0.000 3.077 1.753 CnM.3 1 (V3t1) 0.635 0.225 2.820 0.005 0.635 0.373 CnM.3 2 (V3t2) 3.077 0.316 9.732 0.000 3.077 1.808
CM_B.3 (V3t2) 3.077 0.316 9.732 0.000 3.077 1.753 CnM.3 1 (V3t1) 0.635 0.225 2.820 0.005 0.635 0.373 CnM.3 2 (V3t2) 3.077 0.316 9.732 0.000 3.077 1.808
CnM.3 1 (V3t1) 0.635 0.225 2.820 0.005 0.635 0.373 CnM.3 2 (V3t2) 3.077 0.316 9.732 0.000 3.077 1.808
CnM.3 2 (V3t2) 3.077 0.316 9.732 0.000 3.077 1.808
RP B.3 (V4t1) -0.636 0.162 -3.915 0.000 -0.636 -0.350
RP_B.3 (V4t2) 1.776 0.201 8.836 0.000 1.776 0.978
RgP.3 1 (V4t1) -0.636 0.162 -3.915 0.000 -0.636 -0.362
RgP.3 2 (V4t2) 1.776 0.201 8.836 0.000 1.776 1.010
LP_B.3 (V5t1) -2.328 0.505 -4.611 0.000 -2.328 -0.705
LP_B.3 (V5t2) 2.538 0.468 5.428 0.000 2.538 0.769
LrP.3 1 (V5t1) -2.328 0.505 -4.611 0.000 -2.328 -0.735
LrP.3 2 (V5t2) 2.538 0.468 5.428 0.000 2.538 0.802
PR_B.3 (V6t1) -1.446 0.271 -5.338 0.000 -1.446 -0.538
PR_B.3 (V6t2) 2.251 0.331 6.799 0.000 2.251 0.838
PcR.3 1 (V6t1) -1.446 0.271 -5.338 0.000 -1.446 -0.560
PcR.3 2 (V6t2) 2.251 0.331 6.799 0.000 2.251 0.872
WS_B.3 (V7t1) -3.285 0.918 -3.577 0.000 -3.285 -0.838
WS_B.3 (V7t2) 3.176 0.897 3.539 0.000 3.176 0.810

77 0 0 4	(117.4)	0 005	0 010	0 577	0 000	0 005	0 075
WrS.3 1		-3.285	0.918	-3.577	0.000	-3.285	-0.875
WrS.3 2		3.176	0.897	3.539	0.000	3.176	0.846
LGU_B.3		-1.132	0.155	-7.323	0.000	-1.132	-0.570
LGU_B.3		1.235	0.161	7.663	0.000	1.235	0.622
LGU.3 1		-1.132	0.155	-7.323	0.000	-1.132	-0.586
LGU.3 2		1.235	0.161	7.663	0.000	1.235	0.639
PR_B.3	(V9t1)	-1.285	0.195	-6.588	0.000	-1.285	-0.621
PR_B.3	(V9t2)	0.835	0.156	5.351	0.000	0.835	0.404
PsR.3 1	(V9t1)	-1.285	0.195	-6.588	0.000	-1.285	-0.639
PsR.3 2	(V9t2)	0.835	0.156	5.351	0.000	0.835	0.415
GAP_B.3	(V101)	-1.210	0.154	-7.853	0.000	-1.210	-0.614
GAP_B.3	(V102)	0.739	0.141	5.243	0.000	0.739	0.375
GAP.3 1	(V101)	-1.210	0.154	-7.853	0.000	-1.210	-0.631
GAP.3 2	(V102)	0.739	0.141	5.243	0.000	0.739	0.385
FAL_B.3		-1.578	0.179	-8.823	0.000	-1.578	-0.643
FAL_B.3		0.994	0.162	6.150	0.000	0.994	0.405
FAL.3 1		-1.578	0.179	-8.823	0.000	-1.578	-0.663
FAL.3 2		0.994	0.162	6.150	0.000	0.994	0.418
F B.3 1		-0.991	0.131	-7.553	0.000	-0.991	-0.636
F_B.3 2		0.709	0.128	5.556	0.000	0.709	0.455
Fgh.3 1		-0.991	0.131	-7.553	0.000	-0.991	-0.559
Fgh.3 2		0.709	0.131	5.556	0.000	0.709	0.400
FH_B.3	(V122) (V131)	-1.445	0.128	-10.044	0.000	-1.445	-0.846
_							
FH_B.3		0.762	0.141	5.386	0.000	0.762	0.446
F1H.3 1		-1.445	0.144	-10.044	0.000	-1.445	-0.734
F1H.3 2		0.762	0.141	5.386	0.000	0.762	0.387
RW_B.3	(V141)	-1.802	0.167	-10.807	0.000	-1.802	-0.958
RW_B.3	(V142)	0.595	0.128	4.652	0.000	0.595	0.316
RgW.3 1		-1.802	0.167	-10.807	0.000	-1.802	-0.822
RgW.3 2	(V142)	0.595	0.128	4.652	0.000	0.595	0.271
Variances:							
		Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
HRS.rpre	į	6.590	4.726	1.394	0.163	1.000	1.000
HRS.post		6.003	4.861	1.235	0.217	1.000	1.000
PS.rpre	•	2.294	0.611	3.756	0.000	1.000	1.000
PS.post		2.091	0.628	3.327	0.001	1.000	1.000
PRB.rpre	.	2.945	0.835	3.525	0.000	1.000	1.000
PRB.post		2.734	0.877	3.117	0.002	1.000	1.000
RBA.rpre		1.431	0.429	3.339	0.002	1.000	1.000
RBA.post			0.625		0.001	1.000	
-		2.146	0.025	3.435	0.001		1.000
.Hlthy_Rl		1.000				1.000	0.132
.Commnct_	=	1.000				1.000	0.219
.CnflctMr	-	1.000				1.000	0.325
.RghtPrtr		1.000				1.000	0.304
LrnPrtnr	_	1.000				1.000	0.092
.PcRltnsh	-	1.000				1.000	0.139
.WrnngSgr	s_Bf.3	1.000				1.000	0.065

$. LrndGrwngU_B.3$	1.000				1.000	0.254
$. {\tt PstRltnshp_B.3}$	1.000				1.000	0.234
.GtAlngPrnt_B.3	1.000				1.000	0.257
.FrndshpsAL_B.3	1.000				1.000	0.166
.Fights_Befr.3n	1.000				1.000	0.411
.FlngsHrt_Bfr.3	1.000				1.000	0.343
.RghtndWrng_B.3	1.000				1.000	0.283
.Healthy_Rel.3n	1.918	1.459	1.315	0.189	1.918	0.242
.Communicate.3n	1.000				1.000	0.235
.CnflctMngmnt.3	1.000				1.000	0.345
.RightPartnr.3n	1.000				1.000	0.324
.LearnPartnr.3n	1.000				1.000	0.100
.PaceRltnshp.3n	1.000				1.000	0.150
.WarningSgns.3n	1.000				1.000	0.071
.LrndGrwngUp.3n	1.000				1.000	0.268
.PstRltnshps.3n	1.000				1.000	0.247
.GtAlngPrnts.3n	1.000				1.000	0.272
.FrndshpsArLk.3	1.000				1.000	0.176
.Fights.3n	1.000				1.000	0.318
.FeelingsHrt.3n	1.000				1.000	0.258
.RightndWrng.3n	1.000				1.000	0.208
	1.000				1.000	0.200
Scales y*:						
beares y	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
Hlthy_Rl_Bfr.3	0.363	Dua.hii	Z varuo	1 (7 2)	0.363	1.000
Communication Co	0.468				0.468	1.000
CnflctMngm_B.3	0.570				0.570	1.000
Healthy_Rel.3n	0.355				0.355	1.000
Communicate.3n	0.485				0.485	1.000
					0.588	1.000
CnflctMngmnt.3	0.588					
RghtPrtnr_Bf.3	0.551				0.551	1.000
LrnPrtnr_Bfr.3	0.303				0.303	
PcRltnshp_Bf.3	0.372				0.372	1.000
WrnngSgns_Bf.3	0.255				0.255	1.000
RightPartnr.3n	0.569				0.569	1.000
LearnPartnr.3n	0.316				0.316	1.000
PaceRltnshp.3n	0.387				0.387	1.000
WarningSgns.3n	0.266				0.266	1.000
LrndGrwngU_B.3	0.503				0.503	1.000
PstRltnshp_B.3	0.483				0.483	1.000
GtAlngPrnt_B.3	0.507				0.507	1.000
FrndshpsAL_B.3	0.407				0.407	1.000
LrndGrwngUp.3n	0.517				0.517	1.000
PstRltnshps.3n	0.497				0.497	1.000
GtAlngPrnts.3n	0.521				0.521	1.000
FrndshpsArLk.3	0.420				0.420	1.000
Fights_Befr.3n	0.641				0.641	1.000
FlngsHrt_Bfr.3	0.586				0.586	1.000

RghtndWrng_B.3	0.532	0.532	1.000
Fights.3n	0.564	0.564	1.000
FeelingsHrt.3n	0.508	0.508	1.000
RightndWrng.3n	0.456	0.456	1.000

6.4.13 Model Comparison

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12 13

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PastRelationships.3n ~~

Communicate_Before.3n ~~

RBA.post =~

PRB.rpre =~

RBA.rpre =~

```
lavaan::anova(Fit.Rcomb.model.c.thresh, Fit.Rcomb.model.c.uniq.2)
Scaled Chi Square Difference Test (method = "satorra.2000")
                          Df AIC BIC Chisq Chisq diff Df diff Pr(>Chisq)
Fit.Rcomb.model.c.thresh 314
                                     230.75
                                     272.75
                                                            24 0.0001328
Fit.Rcomb.model.c.uniq.2 338
                                                57.727
Fit.Rcomb.model.c.thresh
Fit.Rcomb.model.c.uniq.2 ***
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
6.4.14 Modification Indices
Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star
                  variables involved are: HRS.post PS.post
Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star
                  variables involved are: LearnPartner_Before.3n LearnPartner.3n
Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star
                  variables involved are: PaceRelationship_Before.3n PaceRelationship.3n
Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star
                  variables involved are: WarningSigns_Before.3n WarningSigns.3n
Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star
                  variables involved are: PastRelationships_Before.3n PastRelationships.3n
Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star
                  variables involved are: FriendshipsAreLike_Before.3n FriendshipsAreLike.3n
                           lhs op
                                                          rhs
                                              WarningSigns.3n 266.94472
                Communicate.3n ~~
1
2
                      RBA.post =~
                                              LearnPartner.3n 118.99428
3
         ConflictManagement.3n ~~
                                              RightPartner.3n 51.50514
4
                Healthy_Rel.3n ~~
                                              WarningSigns.3n 31.03620
5
                                          PaceRelationship.3n 30.59012
                Healthy_Rel.3n ~~
6
                      RBA.post =~
                                              WarningSigns.3n 23.74005
```

11 PastRelationships_Before.3n ~~ PastRelationships_Before.3n 12.50299

HRS.rpre =~ PastRelationships_Before.3n 14.66302

RBA.rpre =~ PastRelationships_Before.3n 12.65642

PastRelationships.3n 13.52649

Communicate_Before.3n 12.34265

PastRelationships.3n 11.87491

Communicate_Before.3n 11.68638

PaceRelationship.3n 13.31764

```
15
                      RBA.rpre =~
                                        Healthy_Rel_Before.3n
                                                               11.18898
16
                                   PaceRelationship_Before.3n
                      PRB.post =~
                                                               11.01930
17
                      PRB.rpre =~
                                        Healthy_Rel_Before.3n
                                                               10.93482
18
                      PS.post =~
                                        PastRelationships.3n
                                                               10.91702
19
                      RBA.post =~
                                  PaceRelationship Before.3n
                                                               10.77097
20
                      HRS.post =~
                                        PastRelationships.3n
                                                               10.69105
21
                      PRB.rpre =~
                                        Communicate Before.3n
                                                               10.11810
22
                      PS.post =~
                                  PaceRelationship_Before.3n
                                                               10.11223
                 sepc.lv
                          sepc.all
                                      sepc.nox
         ерс
1
  33.2272151 33.2272151 33.2272151 33.2272151
2
   8.1887813 11.9949261
                         3.7880791
                                     3.7880791
3
   1.8265210 1.8265210
                         1.8265210
                                     1.8265210
4
   6.7589513 6.7589513
                         4.8800621
                                     4.8800621
5
   3.9021962 3.9021962
                         2.8174430
                                     2.8174430
6
   1.8971479
              2.7789421
                         0.7401424
                                     0.7401424
  -0.2428067 -0.6233240 -0.3013125 -0.3013125
8
  -1.5848148 -1.0000000 -0.2472236 -0.2472236
9
   0.9579748 1.4032414 0.5434672
                                     0.5434672
10 -0.8404125 -1.0053560 -0.4859852 -0.4859852
   1.5142654 1.0000000
                        0.2336719
                                     0.2336719
   1.7265692
              1.0000000
                         0.2190587
                                     0.2190587
13 -0.2317857 -0.3977514 -0.1977683 -0.1977683
14 -0.5114859 -0.6118726 -0.2863791 -0.2863791
   0.7351957 0.8794888 0.3192276
15
                                     0.3192276
   0.2892181 0.4782273 0.1780245
                                     0.1780245
16
17
   0.4459192 0.7652111 0.2777482
                                     0.2777482
   0.3491061 0.5048122 0.2510006
                                     0.2510006
18
19
   0.3059203 0.4481121
                         0.1668138
                                     0.1668138
20 0.1876356
              0.4597274 0.2285838
                                     0.2285838
21 -0.2954772 -0.5070480 -0.2373173 -0.2373173
22 0.3229844 0.4670399 0.1738599
                                    0.1738599
```

6.4.15 Unique Factor Invariant 3

Warning in law_object_post_check(object): lawaan WARNING: covariance matrix of latent variable is not positive definite;
use inspect(fit, "cov.lv") to investigate.

lavaan (0.6-1) converged normally after 222 iterations

		Used	Total	
Number of observations		111	134	
Estimator		DWLS	Robust	
Model Fit Test Statistic	2	59.946	395.353	
Degrees of freedom		337	337	
P-value (Chi-square)		0.999	0.016	
Scaling correction factor			1.450	
Shift parameter			216.094	
for simple second-order correction	(Mplus va	riant)		
Model test baseline model:				
Minimum Function Test Statistic	1860	02.907	4580.137	
Degrees of freedom		378	378	
P-value		0.000	0.000	
User model versus baseline model:				
Comparative Fit Index (CFI)		1.000	0.986	
Tucker-Lewis Index (TLI)		1.005	0.984	
Robust Comparative Fit Index (CFI)			NA	
Robust Tucker-Lewis Index (TLI)			NA	
Root Mean Square Error of Approximation	1:			
RMSEA		0.000	0.040	
90 Percent Confidence Interval	0.000	0.000	0.019	0.055
P-value RMSEA <= 0.05		1.000	0.857	
Robust RMSEA			NA	
90 Percent Confidence Interval			NA	NA
Standardized Root Mean Square Residual:				
bundararzea 11000 mean byuare mesiduar.				

Parameter Estimates:

SRMR

0.081

Information Expected
Information saturated (h1) model Unstructured
Standard Errors Robust.sem

Latent Variables:

racent variable	es.						
		Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
HRS.rpre =~							
H_R_B.3		1.000				2.563	0.932
Cmm_B.3 (0.736	0.305	2.412	0.016	1.886	0.884
_	V3L)	0.563	0.218	2.581	0.010	1.443	0.822
HRS.post =~							
Hlt_R.3		1.000				2.447	0.871
Cmmnc.3 (0.736	0.305	2.412	0.016	1.800	0.874
CnflM.3 (V3L)	0.563	0.218	2.581	0.010	1.378	0.809
PS.rpre =~							
U -	V4L)	1.000				1.514	0.834
LrP_B.3 (V	V5L)	2.080	0.465	4.469	0.000	3.149	0.953
PcR_B.3 (V6L)	1.645	0.298	5.528	0.000	2.491	0.928
WrS_B.3 (V7L)	2.493	0.712	3.500	0.000	3.776	0.967
PS.post =~							
RghtP.3 (V4L)	1.000				1.447	0.823
LrnPr.3 (V5L)	2.080	0.465	4.469	0.000	3.010	0.949
PcRlt.3 (V6L)	1.645	0.298	5.528	0.000	2.381	0.922
WrnnS.3 (V	V7L)	2.493	0.712	3.500	0.000	3.608	0.964
PRB.rpre =~							
LGU_B.3 ((18V	1.000				1.818	0.876
PsR_B.3 (V9L)	0.704	0.126	5.583	0.000	1.280	0.788
GAP_B.3 (V:	10L)	1.008	0.168	6.012	0.000	1.833	0.878
FAL_B.3 (V:	11L)	1.340	0.199	6.743	0.000	2.435	0.925
PRB.post =~							
LrnGU.3 (V8L)	1.000				1.558	0.842
PstRl.3 (V9L)	0.704	0.126	5.583	0.000	1.098	0.914
GtAlP.3 (V	10L)	1.008	0.168	6.012	0.000	1.571	0.844
FrnAL.3 (V	11L)	1.340	0.199	6.743	0.000	2.088	0.902
RBA.rpre =~							
Fgh_B.3 (V	12L)	1.000				1.196	0.767
FlH_B.3 (V:	13L)	1.155	0.163	7.089	0.000	1.381	0.810
RgW_B.3 (V:	14L)	1.340	0.184	7.283	0.000	1.602	0.848
RBA.post =~							
Fghts.3 (V	12L)	1.000				1.462	0.825
FlngH.3 (V	13L)	1.155	0.163	7.089	0.000	1.688	0.860
RghtW.3 (V	14L)	1.340	0.184	7.283	0.000	1.959	0.891

Covariances:

	Estimate	Std.Err	z-value	P(> z)
HRS.rpre ~~				
HRS.post	0.923	0.999	0.924	0.355
PS.rpre	2.957	1.155	2.560	0.010

PS.post	0.268	0.420	0.639	0.523
PRB.rpre	2.686	1.073	2.503	0.012
PRB.post	-0.439	0.481	-0.913	0.361
RBA.rpre	1.893	0.765	2.475	0.013
RBA.post	0.380	0.483	0.786	0.432
HRS.post ~~				
PS.rpre	-0.116	0.426	-0.272	0.786
PS.post	3.681	1.657	2.222	0.026
PRB.rpre	1.039	0.690	1.507	0.132
PRB.post	2.700	1.322	2.043	0.041
RBA.rpre	0.626	0.437	1.431	0.153
RBA.post	3.142	1.495	2.102	0.036
PS.rpre ~~				
PS.post	0.012	0.254	0.048	0.962
PRB.rpre	1.487	0.388	3.830	0.000
PRB.post	-0.196	0.276	-0.710	0.478
RBA.rpre	0.981	0.293	3.352	0.001
RBA.post	0.058	0.296	0.197	0.844
PS.post ~~				
PRB.rpre	0.584	0.342	1.711	0.087
PRB.post	1.589	0.462	3.441	0.001
RBA.rpre	0.230	0.208	1.106	0.269
RBA.post	1.764	0.458	3.855	0.000
PRB.rpre ~~				
PRB.post	1.136	0.450	2.524	0.012
RBA.rpre	2.003	0.480	4.173	0.000
RBA.post	0.912	0.382	2.389	0.017
PRB.post ~~				
RBA.rpre	0.374	0.237	1.581	0.114
RBA.post	2.180	0.532	4.099	0.000
RBA.rpre ~~				
RBA.post	0.559	0.263	2.128	0.033
.Healthy_Rel_Before.3n ~~				
.Healthy_Rel.3n	1.076	0.933	1.153	0.249
.Communicate_Before.3n ~~				
.Communicate.3n	0.812	0.401	2.023	0.043
.ConflictManagement_Before.3n ~~				
.CnflctMngmnt.3	0.411	0.279	1.474	0.140
.RightPartner_Before.3n ~~				
.RightPartnr.3n	0.114	0.328	0.349	0.727
.LearnPartner_Before.3n ~~				
.LearnPartnr.3n	1.403	0.857	1.636	0.102
.PaceRelationship_Before.3n ~~				
.PaceRltnshp.3n	1.102	0.753	1.464	0.143
.WarningSigns_Before.3n ~~				
.WarningSgns.3n	1.250	1.366	0.915	0.360
.LearnedGrowingUp_Before.3n ~~				
.LrndGrwngUp.3n	0.180	0.403	0.448	0.654

.PastRela	tionships_Before.3n ~~				
	nshps.3n	0.538	0.241	2.230	0.026
.GetAlong	Parents_Before.3n ~~				
_	Prnts.3n	0.449	0.306	1.470	0.142
.Friendsh	ipsAreLike_Before.3n ~~				
.Frndsh	psArLk.3	1.438	0.481	2.988	0.003
	efore.3n ~~				
.Fights	.3n	0.608	0.260	2.338	0.019
.Feelings	Hurt_Before.3n ~~				
.Feelin	gsHrt.3n	0.583	0.375	1.554	0.120
.Rightand	Wrong_Before.3n ~~				
.Rightn	dWrng.3n	0.870	0.384	2.265	0.023
Std.lv	Std.all				
0.147	0.147				
0.762	0.762				
0.072	0.072				
0.577	0.577				
-0.110	-0.110				
0.618	0.618				
0.101	0.101				
-0.031	-0.031				
1.040	1.040				
0.234	0.234				
0.708	0.708				
0.214	0.214				
0.879	0.879				
0.006	0.006				
0.540	0.540				
-0.083	-0.083				
0.542	0.542				
0.026	0.026				
0.222	0.222				
0.704	0.704				
0.133	0.133				
0.834	0.834				
0.401	0.401				
0.922	0.922				
0.343	0.343				
0.004	0.004				
0.201	0.201				
0.957	0.957				
0.300	0.300				
0.320	0.320				

1.076	0.778
0.812	0.812
0.411	0.411
0.114	0.114
1.403	1.403
1.102	1.102
1.250	1.250
0.180	0.180
0.538	1.104
0.449	0.449
1.438	1.438
0.608	0.608
0.583	0.583
0.870	0.870

Intercepts:

HRS.rpre 0.000 0.000 0.000 0.000 HRS.post 5.011 1.895 2.644 0.008 2.048 2.04 PS.rpre -1.854 0.274 -6.779 0.000 -1.224 -1.22 PS.post 1.653 0.218 7.589 0.000 1.142 1.14 PRB.rpre -1.258 0.239 -5.266 0.000 -0.692 -0.69 PRB.post 1.421 0.225 6.324 0.000 0.912 0.91	11
PS.rpre -1.854 0.274 -6.779 0.000 -1.224 -1.22 PS.post 1.653 0.218 7.589 0.000 1.142 1.14 PRB.rpre -1.258 0.239 -5.266 0.000 -0.692 -0.69	00
PS.post 1.653 0.218 7.589 0.000 1.142 1.14 PRB.rpre -1.258 0.239 -5.266 0.000 -0.692 -0.69	48
PRB.rpre -1.258 0.239 -5.266 0.000 -0.692 -0.69	24
	42
PRB.post 1.421 0.225 6.324 0.000 0.912 0.91	92
	12
RBA.rpre -0.816 0.152 -5.360 0.000 -0.683 -0.68	83
RBA.post 1.436 0.222 6.469 0.000 0.982 0.98	82
.Hlthy_Rl_Bfr.3 0.000 0.000 0.00	00
.Commnct_Bfr.3n 0.000 0.000 0.00	00
.CnflctMngm_B.3 0.000 0.000 0.00	00
.Healthy_Rel.3n 0.000 0.000 0.00	00
.Communicate.3n 0.000 0.000 0.00	00
.CnflctMngmnt.3 0.000 0.000 0.00	00
.RghtPrtnr_Bf.3 0.000 0.000 0.00	00
.LrnPrtnr_Bfr.3 0.000 0.000 0.00	00
.PcRltnshp_Bf.3 0.000 0.000 0.000	00

.WrnngSgns_Bf.3	0.000				0.000	0.000
.RightPartnr.3n	0.000				0.000	0.000
.LearnPartnr.3n	0.000				0.000	0.000
.PaceRltnshp.3n	0.000				0.000	0.000
.WarningSgns.3n	0.000				0.000	0.000
$. LrndGrwngU_B.3$	0.000				0.000	0.000
$. {\tt PstRltnshp_B.3}$	0.000				0.000	0.000
$. {\tt GtAlngPrnt_B.3}$	0.000				0.000	0.000
.FrndshpsAL_B.3	0.000				0.000	0.000
$. {\tt LrndGrwngUp.3n}$	0.000				0.000	0.000
.PstRltnshps $.$ 3n	0.000				0.000	0.000
.GtAlngPrnts.3n	0.000				0.000	0.000
.FrndshpsArLk.3	0.000				0.000	0.000
.Fights_Befr.3n	0.000				0.000	0.000
.FlngsHrt_Bfr.3	0.000				0.000	0.000
.RghtndWrng_B.3	0.000				0.000	0.000
.Fights.3n	0.000				0.000	0.000
.FeelingsHrt.3n	0.000				0.000	0.000
.RightndWrng.3n	0.000				0.000	0.000
0 0						
Thresholds:						
	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
H_R_B.3 (V1t1)	0.617	0.386	1.597	0.110	0.617	0.224
H_R_B.3 (V1t2)	4.756	1.682	2.828	0.005	4.756	1.729
H_R.3 1 (V1t1)	0.617	0.386	1.597	0.110	0.617	0.219
H_R.3 2 (V1t2)	4.756	1.682	2.828	0.005	4.756	1.692
C_B.3 1 (V2t1)	0.367	0.261	1.409	0.159	0.367	0.172
C_B.3 2 (V2t2)	3.604	0.516	6.983	0.000	3.604	1.688
Cmm.3 1 (V2t1)	0.367	0.261	1.409	0.159	0.367	0.178
Cmm.3 2 (V2t2)	3.604	0.516	6.983	0.000	3.604	1.750
CM_B.3 (V3t1)	0.636	0.225	2.821	0.005	0.636	0.362
CM_B.3 (V3t1)	3.079	0.223	9.733	0.000	3.079	1.754
CnM.3 1 (V3t1)		0.225			0.636	0.373
				0.005		
CnM.3 2 (V3t2)	3.079	0.316	9.733	0.000	3.079	1.809
RP_B.3 (V4t1)		0.162	-3.914	0.000	-0.636	-0.350
RP_B.3 (V4t2)	1.777	0.201	8.841	0.000	1.777	0.979
RgP.3 1 (V4t1)	-0.636	0.162	-3.914	0.000	-0.636	-0.361
RgP.3 2 (V4t2)	1.777	0.201	8.841	0.000	1.777	1.010
LP_B.3 (V5t1)	-2.330	0.507	-4.598	0.000	-2.330	-0.705
LP_B.3 (V5t2)	2.543	0.470	5.408	0.000	2.543	0.770
LrP.3 1 (V5t1)		0.507	-4.598	0.000	-2.330	-0.735
LrP.3 2 (V5t2)	2.543	0.470	5.408	0.000	2.543	0.802
PR_B.3 (V6t1)	-1.445	0.271	-5.334	0.000	-1.445	-0.538
PR_B.3 (V6t2)	2.252	0.331	6.795	0.000	2.252	0.839
PcR.3 1 (V6t1)	-1.445	0.271	-5.334	0.000	-1.445	-0.560
PcR.3 2 (V6t2)	2.252	0.331	6.795	0.000	2.252	0.872
WS_B.3 (V7t1)	-3.273	0.911	-3.594	0.000	-3.273	-0.838
WS_B.3 (V7t2)	3.167	0.890	3.559	0.000	3.167	0.811

WrS.3 1 (V7t	1) -3.273	0.911	-3.594	0.000	-3.273	-0.874
WrS.3 2 (V7t	2) 3.167	0.890	3.559	0.000	3.167	0.846
LGU_B.3 (V8t	1) -1.170	0.154	-7.593	0.000	-1.170	-0.564
LGU_B.3 (V8t	2) 1.198	0.161	7.434	0.000	1.198	0.577
LGU.3 1 (V8t	1) -1.170	0.154	-7.593	0.000	-1.170	-0.632
LGU.3 2 (V8t	2) 1.198	0.161	7.434	0.000	1.198	0.647
PR_B.3 (V9t	1) -0.848	0.179	-4.737	0.000	-0.848	-0.522
PR_B.3 (V9t		0.127	4.698	0.000	0.598	0.368
PsR.3 1 (V9t		0.179	-4.737	0.000	-0.848	-0.706
PsR.3 2 (V9t		0.127	4.698	0.000	0.598	0.498
GAP_B.3 (V10		0.154	-8.170	0.000	-1.260	-0.603
GAP_B.3 (V10		0.141	5.281	0.000	0.745	0.357
GAP.3 1 (V10		0.154	-8.170	0.000	-1.260	-0.676
GAP.3 2 (V10		0.141	5.281	0.000	0.745	0.400
FAL_B.3 (V11		0.180	-9.185	0.000	-1.649	-0.626
FAL_B.3 (V11		0.160	6.347	0.000	1.014	0.385
FAL.3 1 (V11		0.180	-9.185	0.000	-1.649	-0.712
FAL.3 2 (V11		0.160	6.347	0.000	1.014	0.438
F_B.3 1 (V12		0.131	-7.565	0.000	-0.992	-0.637
F_B.3 2 (V12		0.128	5.541	0.000	0.706	0.453
Fgh.3 1 (V12		0.131	-7.565	0.000	-0.992	-0.560
Fgh.3 2 (V12		0.128	5.541	0.000	0.706	0.399
FH_B.3 (V13		0.143	-10.075	0.000	-1.444	-0.847
FH_B.3 (V13		0.141	5.361	0.000	0.758	0.444
FlH.3 1 (V13		0.143	-10.075	0.000	-1.444	-0.736
F1H.3 2 (V13		0.141	5.361	0.000	0.758	0.386
RW_B.3 (V14		0.167	-10.821	0.000	-1.812	-0.960
RW_B.3 (V14		0.128	4.641	0.000	0.595	0.315
RgW.3 1 (V14		0.167	-10.821	0.000	-1.812	-0.824
RgW.3 2 (V14		0.128	4.641	0.000	0.595	0.270
6	,					
Variances:						
	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
HRS.rpre	6.570	4.700	1.398	0.162	1.000	1.000
HRS.post	5.987	4.838	1.237	0.216	1.000	1.000
PS.rpre	2.293	0.610	3.760	0.000	1.000	1.000
PS.post	2.094	0.630	3.327	0.001	1.000	1.000
PRB.rpre	3.304	0.972	3.401	0.001	1.000	1.000
PRB.post	2.428	0.771	3.149	0.002	1.000	1.000
RBA.rpre	1.429	0.427	3.345	0.001	1.000	1.000
RBA.post	2.137	0.621	3.443	0.001	1.000	1.000
.Hlthy_Rl_Bfr					1.000	0.132
.Commnct_Bfr.					1.000	0.219
.CnflctMngm_B					1.000	0.324
.RghtPrtnr_Bf					1.000	0.304
.LrnPrtnr_Bfr					1.000	0.092
.PcRltnshp_Bf					1.000	0.139
.WrnngSgns_Bf					1.000	0.066
-						

.LrndGrwngU_B.3	1.000				1.000	0.232
.PstRltnshp_B.3	1.000				1.000	0.379
.GtAlngPrnt_B.3	1.000				1.000	0.229
.FrndshpsAL_B.3	1.000				1.000	0.144
$. {\tt Fights_Befr.3n}$	1.000				1.000	0.412
.FlngsHrt_Bfr.3	1.000				1.000	0.344
$. {\tt RghtndWrng_B.3}$	1.000				1.000	0.280
$. {\tt Healthy_Rel.3n}$	1.911	1.450	1.318	0.188	1.911	0.242
.Communicate.3n	1.000				1.000	0.236
$. {\tt CnflctMngmnt.3}$	1.000				1.000	0.345
.RightPartnr.3n	1.000				1.000	0.323
.LearnPartnr.3n	1.000				1.000	0.099
.PaceRltnshp.3n	1.000				1.000	0.150
.WarningSgns.3n	1.000				1.000	0.071
.LrndGrwngUp.3n	1.000				1.000	0.292
.PstRltnshps.3n	0.237	0.105	2.261	0.024	0.237	0.165
.GtAlngPrnts.3n	1.000				1.000	0.288
.FrndshpsArLk.3	1.000				1.000	0.187
.Fights.3n	1.000				1.000	0.319
.FeelingsHrt.3n	1.000				1.000	0.260
.RightndWrng.3n	1.000				1.000	0.207
8 8 8 8 8 8						
Scales y*:						
200202 j .	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
Hlthy_Rl_Bfr.3	0.363	204122		- (* 1–1)	0.363	1.000
Commnct_Bfr.3n	0.468				0.468	1.000
CnflctMngm_B.3	0.570				0.570	1.000
Healthy_Rel.3n	0.356				0.356	1.000
Communicate.3n	0.486				0.486	1.000
CnflctMngmnt.3	0.587				0.587	1.000
RghtPrtnr_Bf.3	0.551				0.551	1.000
LrnPrtnr_Bfr.3	0.303				0.303	1.000
PcRltnshp_Bf.3	0.372				0.372	1.000
					0.372	
WrnngSgns_Bf.3 RightPartnr.3n	0.256					1.000
LearnPartnr.3n	0.568				0.568	1.000
	0.315				0.315	1.000
PaceRltnshp.3n	0.387				0.387	1.000
WarningSgns.3n	0.267				0.267	1.000
LrndGrwngU_B.3	0.482				0.482	1.000
PstRltnshp_B.3	0.616				0.616	1.000
GtAlngPrnt_B.3	0.479				0.479	1.000
FrndshpsAL_B.3	0.380				0.380	1.000
LrndGrwngUp.3n	0.540				0.540	1.000
PstRltnshps.3n	0.833				0.833	1.000
GtAlngPrnts.3n	0.537				0.537	1.000
FrndshpsArLk.3	0.432				0.432	1.000
Fights_Befr.3n	0.642				0.642	1.000
FlngsHrt_Bfr.3	0.587				0.587	1.000

RghtndWrng_B.3	0.530	0.530	1.000
Fights.3n	0.565	0.565	1.000
FeelingsHrt.3n	0.510	0.510	1.000
RightndWrng.3n	0.455	0.455	1.000

```
6.4.16 Model Comparison
lavaan::anova(Fit.Rcomb.model.c.thresh, Fit.Rcomb.model.c.uniq.3)
Scaled Chi Square Difference Test (method = "satorra.2000")
                          Df AIC BIC Chisq Chisq diff Df diff Pr(>Chisq)
Fit.Rcomb.model.c.thresh 314
                                     230.75
                                     259.95
                                                            23
Fit.Rcomb.model.c.uniq.3 337
                                                44.441
                                                                 0.004651
Fit.Rcomb.model.c.thresh
Fit.Rcomb.model.c.uniq.3 **
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
6.4.17 Modification Indices
Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star
                  variables involved are: HRS.post PS.post
Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star
                  variables involved are: LearnPartner_Before.3n LearnPartner.3n
Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star
                  variables involved are: PaceRelationship_Before.3n PaceRelationship.3n
Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star
```

variables involved are: WarningSigns_Before.3n WarningSigns.3n

Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star variables involved are: PastRelationships_Before.3n PastRelationships.3n

Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star variables involved are: FriendshipsAreLike_Before.3n FriendshipsAreLike.3n

```
lhs op
                                                    rhs
1
          Communicate.3n ~~
                                        WarningSigns.3n 220.31345
2
                RBA.post =~
                                        LearnPartner.3n 106.91400
3
  ConflictManagement.3n ~~
                                        RightPartner.3n 50.98824
4
                PRB.post =~
                                  ConflictManagement.3n
                                                        32.36120
5
          Healthy_Rel.3n ~~
                                        WarningSigns.3n
                                                         30.27502
6
          Healthy_Rel.3n ~~
                                    PaceRelationship.3n
                                                         30.09610
7
                RBA.post =~
                                        WarningSigns.3n
                                                         23.53480
8
                PRB.rpre =~
                                   PastRelationships.3n
                                                         14.80870
9
                RBA.rpre =~
                                   PastRelationships.3n
                                                         13.16598
10
                RBA.post =~
                                    PaceRelationship.3n
                                                         13.09892
11 Communicate_Before.3n ~~
                                  Communicate_Before.3n
                                                         12.28379
                                  Communicate_Before.3n
                                                         11.53668
12
                RBA.rpre =~
13
                RBA.rpre =~
                                  Healthy_Rel_Before.3n
                                                         11.11505
14
                PRB.post =~ PaceRelationship_Before.3n
                                                         10.87112
```

```
15
                PRB.rpre =~
                                Healthy_Rel_Before.3n 10.80914
16
               RBA.post =~ PaceRelationship_Before.3n
                                                       10.63316
17
                PS.post =~ PaceRelationship_Before.3n
                                                       10.00020
                sepc.lv
                           sepc.all
                                      sepc.nox
          ерс
  27.2607991 27.2607991 27.2607991 27.2607991
   7.4461435 10.8846423 3.4319348 3.4319348
3
   1.8130989 1.8130989 1.8130989
                                    1.8130989
4
   2.7464008 4.2794608 2.5138288 2.5138288
5
   6.5622660 \quad 6.5622660 \quad 4.7471302 \quad 4.7471302
6
   3.8376821 \quad 3.8376821 \quad 2.7761716 \quad 2.7761716
7
  1.8802236 2.7484780 0.7340294 0.7340294
 -0.1494479 -0.2716489 -0.2262094 -0.2262094
9 -0.2088336 -0.2496728 -0.2079092 -0.2079092
10 0.9482782 1.3861765 0.5367469 0.5367469
11 1.7193036 1.0000000 0.2194246 0.2194246
12 -0.5080030 -0.6073473 -0.2844983 -0.2844983
13 0.7323226 0.8755344 0.3182239 0.3182239
14 0.3058454 0.4765704 0.1775160 0.1775160
15  0.4203750  0.7641087  0.2777248  0.2777248
16 0.3048022 0.4455546 0.1659630 0.1659630
17 0.3209620 0.4645019 0.1730207 0.1730207
```

6.4.18 Unique Factor Invariant 4

Warning in law_object_post_check(object): lawaan WARNING: covariance matrix of latent variable is not positive definite;
use inspect(fit, "cov.lv") to investigate.

lavaan (0.6-1) converged normally after 220 iterations

		Used	Total	
Number of observations		111	134	
Estimator		DWLS	Robust	
Model Fit Test Statistic	24	7.609	387.189	
Degrees of freedom		336	336	
P-value (Chi-square)		1.000	0.028	
Scaling correction factor			1.442	
Shift parameter	Shift parameter			
for simple second-order correction	(Mplus var	iant)		
Model test baseline model:				
Minimum Function Test Statistic	1860	2.907	4580.137	
Degrees of freedom		378		
P-value	0.000 0.00			
User model versus baseline model:				
Comparative Fit Index (CFI)		1.000	0.988	
Tucker-Lewis Index (TLI)		1.005	0.986	
Robust Comparative Fit Index (CFI)			NA	
Robust Tucker-Lewis Index (TLI)			NA	
Root Mean Square Error of Approximation	ı:			
RMSEA		0.000	0.037	
90 Percent Confidence Interval		0.000	0.013	0.053
P-value RMSEA <= 0.05		1.000	0.902	
1 Variat Missin : 0.00		1.000	0.002	
Robust RMSEA			NA	
90 Percent Confidence Interval			N A	NA
00 1010000 0001140000 10001 141			1411	1111
Standardized Root Mean Square Residual:	:			
~ 1 ~ 1 ~ 1 ~ 1 ~ 1 ~ 1 ~ 1 ~ 1 ~ 1 ~ 1				

Parameter Estimates:

SRMR

0.080

Information		Expected
Information saturated (1	h1) model	${\tt Unstructured}$
Standard Errors		Robust.sem

Lavoiro varia,	orob.	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
HRS.rpre =	~						
$H_R_B.3$		1.000				2.538	0.930
Cmm_B.3	(V2L)	0.483	0.201	2.408	0.016	1.227	0.775
$CnM_B.3$	(V3L)	0.637	0.244	2.613	0.009	1.618	0.851
HRS.post =	~						
Hlt_R.3		1.000				2.137	0.879
Cmmnc.3	(V2L)	0.483	0.201	2.408	0.016	1.033	0.910
CnflM.3	(V3L)	0.637	0.244	2.613	0.009	1.362	0.806
PS.rpre =~							
RgP_B.3	(V4L)	1.000				1.518	0.835
LrP_B.3	(V5L)	2.044	0.451	4.531	0.000	3.102	0.952
PcR_B.3	(V6L)	1.644	0.299	5.495	0.000	2.496	0.928
WrS_B.3	(V7L)	2.496	0.719	3.471	0.001	3.789	0.967
PS.post =~							
RghtP.3	(V4L)	1.000				1.453	0.824
LrnPr.3	(V5L)	2.044	0.451	4.531	0.000	2.969	0.948
PcRlt.3	(V6L)	1.644	0.299	5.495	0.000	2.389	0.922
WrnnS.3	(V7L)	2.496	0.719	3.471	0.001	3.626	0.964
PRB.rpre =	~						
LGU_B.3	(N8L)	1.000				1.817	0.876
PsR_B.3	(V9L)	0.705	0.126	5.584	0.000	1.281	0.788
GAP_B.3	(V10L)	1.009	0.168	6.002	0.000	1.833	0.878
FAL_B.3	(V11L)	1.340	0.199	6.729	0.000	2.435	0.925
PRB.post =	~						
LrnGU.3		1.000				1.558	0.842
	(V9L)	0.705	0.126	5.584	0.000	1.098	0.914
GtAlP.3		1.009	0.168	6.002	0.000	1.572	0.844
FrnAL.3	(V11L)	1.340	0.199	6.729	0.000	2.088	0.902
RBA.rpre =							
Fgh_B.3		1.000				1.194	0.767
FlH_B.3		1.157	0.163	7.084	0.000	1.382	0.810
RgW_B.3		1.341	0.184	7.285	0.000	1.602	0.848
RBA.post =							
Fghts.3		1.000				1.460	0.825
FlngH.3		1.157	0.163	7.084	0.000	1.690	0.861
RghtW.3	(V14L)	1.341	0.184	7.285	0.000	1.959	0.891

Covariances:

	Estimate	Std.Err	z-value	P(> z)
HRS.rpre ~~				
HRS.post	0.803	0.858	0.936	0.349
PS.rpre	3.018	1.162	2.597	0.009

PS.post	0.252	0.430	0.585	0.558
PRB.rpre	2.751	1.078	2.551	0.011
PRB.post	-0.443	0.493	-0.900	0.368
RBA.rpre	1.933	0.768	2.518	0.012
RBA.post	0.365	0.488	0.748	0.454
HRS.post ~~				
PS.rpre	-0.097	0.367	-0.264	0.792
PS.post	3.163	1.395	2.267	0.023
PRB.rpre	0.891	0.588	1.516	0.130
PRB.post	2.318	1.131	2.050	0.040
RBA.rpre	0.536	0.375	1.432	0.152
RBA.post	2.693	1.255	2.147	0.032
PS.rpre ~~				
PS.post	0.012	0.256	0.048	0.962
PRB.rpre	1.490	0.389	3.831	0.000
PRB.post	-0.196	0.277	-0.710	0.478
RBA.rpre	0.982	0.293	3.352	0.001
RBA.post	0.058	0.296	0.197	0.844
PS.post ~~				
PRB.rpre	0.586	0.343	1.711	0.087
PRB.post	1.594	0.464	3.437	0.001
RBA.rpre	0.231	0.209	1.106	0.269
RBA.post	1.768	0.460	3.847	0.000
PRB.rpre ~~				
PRB.post	1.135	0.450	2.524	0.012
RBA.rpre	2.000	0.479	4.173	0.000
RBA.post	0.911	0.381	2.389	0.017
PRB.post ~~				
RBA.rpre	0.374	0.236	1.581	0.114
RBA.post	2.178	0.531	4.099	0.000
RBA.rpre ~~				
RBA.post	0.557	0.262	2.129	0.033
.Healthy_Rel_Before.3n ~~				
$. \verb Healthy_Rel.3n \\$	0.912	0.787	1.159	0.246
.Communicate_Before.3n ~~				
.Communicate.3n	0.349	0.184	1.900	0.057
.ConflictManagement_Before.3n ~~				
.CnflctMngmnt.3	0.430	0.298	1.441	0.150
.RightPartner_Before.3n ~~				
.RightPartnr.3n	0.115	0.329	0.349	0.727
.LearnPartner_Before.3n ~~				
.LearnPartnr.3n	1.367	0.833	1.642	0.101
.PaceRelationship_Before.3n ~~				
$. \verb PaceRltnshp.3n $	1.107	0.757	1.461	0.144
.WarningSigns_Before.3n ~~				
.WarningSgns.3n	1.260	1.379	0.914	0.361
.LearnedGrowingUp_Before.3n ~~				
.LrndGrwngUp.3n	0.180	0.403	0.448	0.654

.PastRela	tionships_Before.3n ~~				
	nshps.3n	0.539	0.242	2.231	0.026
	Parents_Before.3n ~~				
_	Prnts.3n	0.449	0.306	1.469	0.142
.Friendsh	ipsAreLike_Before.3n ~~				
.Frndsh	psArLk.3	1.438	0.481	2.988	0.003
.Fights_B	efore.3n ~~				
.Fights	.3n	0.607	0.259	2.340	0.019
.Feelings	Hurt_Before.3n ~~				
.Feelin	gsHrt.3n	0.583	0.375	1.553	0.120
_	Wrong_Before.3n ~~				
_	dWrng.3n	0.870	0.384	2.266	0.023
Std.lv	Std.all				
0.148	0.148				
0.783	0.783				
0.068	0.068				
0.597	0.597				
-0.112	-0.112				
0.638	0.638				
0.098	0.098				
-0.030	-0.030				
1.019	1.019				
0.229	0.229				
0.696	0.696				
0.210	0.210				
0.863	0.863				
0.006	0.006				
0.540	0.540				
-0.083	-0.083				
0.542	0.542				
0.026	0.026				
0.222	0.222				
0.704	0.704				
0.133	0.133				
0.834	0.834				
0.401	0.401				
0.922	0.922				
0.343	0.343				
0.201	0.201				
0.957	0.957				
0.320	0.320				

0.912	0.786
0.349	0.739
0.430	0.430
0.115	0.115
1.367	1.367
1.107	1.107
1.260	1.260
0.180	0.180
0.539	1.104
0.449	0.449
1.438	1.438
0.607	0.607
0.583	0.583
0.870	0.870

<u> </u>						
	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
HRS.rpre	0.000				0.000	0.000
HRS.post	4.746	1.753	2.707	0.007	2.221	2.221
PS.rpre	-1.855	0.275	-6.751	0.000	-1.222	-1.222
PS.post	1.662	0.220	7.548	0.000	1.144	1.144
PRB.rpre	-1.260	0.239	-5.274	0.000	-0.693	-0.693
PRB.post	1.418	0.225	6.314	0.000	0.910	0.910
RBA.rpre	-0.811	0.152	-5.343	0.000	-0.679	-0.679
RBA.post	1.438	0.222	6.489	0.000	0.985	0.985
.Hlthy_Rl_Bfr.3	0.000				0.000	0.000
.Commnct_Bfr.3n	0.000				0.000	0.000
.CnflctMngm_B.3	0.000				0.000	0.000
.Healthy_Rel.3n	0.000				0.000	0.000
.Communicate.3n	0.000				0.000	0.000
.CnflctMngmnt.3	0.000				0.000	0.000
.RghtPrtnr_Bf.3	0.000				0.000	0.000
.LrnPrtnr_Bfr.3	0.000				0.000	0.000
.PcRltnshp_Bf.3	0.000				0.000	0.000

.WrnngSgns_Bf.3	0.000				0.000	0.000
.RightPartnr.3n	0.000				0.000	0.000
.LearnPartnr.3n	0.000				0.000	0.000
.PaceRltnshp.3n	0.000				0.000	0.000
.WarningSgns.3n	0.000				0.000	0.000
$. LrndGrwngU_B.3$	0.000				0.000	0.000
$.PstRltnshp_B.3$	0.000				0.000	0.000
$. {\tt GtAlngPrnt_B.3}$	0.000				0.000	0.000
$. {\tt FrndshpsAL_B.3}$	0.000				0.000	0.000
$. {\tt LrndGrwngUp.3n}$	0.000				0.000	0.000
.PstRltnshps $.$ 3n	0.000				0.000	0.000
$. {\tt GtAlngPrnts.3n}$	0.000				0.000	0.000
.FrndshpsArLk.3	0.000				0.000	0.000
.Fights_Befr.3n	0.000				0.000	0.000
.FlngsHrt_Bfr.3	0.000				0.000	0.000
.RghtndWrng_B.3	0.000				0.000	0.000
.Fights.3n	0.000				0.000	0.000
.FeelingsHrt.3n	0.000				0.000	0.000
.RightndWrng.3n	0.000				0.000	0.000
8 8 8 8 8 8						
Thresholds:						
	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
H_R_B.3 (V1t1)	0.663	0.392	1.692	0.091	0.663	0.243
H_R_B.3 (V1t2)	4.568	1.597	2.861	0.004	4.568	1.675
H_R.3 1 (V1t1)	0.663	0.392	1.692	0.091	0.663	0.272
H_R.3 2 (V1t2)	4.568	1.597	2.861	0.004	4.568	1.878
C_B.3 1 (V2t1)	0.353	0.180	1.962	0.050	0.353	0.223
C_B.3 2 (V2t2)	2.324	0.395	5.887	0.000	2.324	1.468
Cmm.3 1 (V2t1)	0.353	0.180	1.962	0.050	0.353	0.311
Cmm.3 2 (V2t2)	2.324	0.395	5.887	0.000	2.324	2.045
CM_B.3 (V3t1)	0.762	0.258	2.951	0.003	0.762	0.401
CM_B.3 (V3t1)	3.294	0.370	8.897	0.000	3.294	1.732
CnM.3 1 (V3t1)		0.258			0.762	0.451
				0.003		
CnM.3 2 (V3t2)	3.294	0.370	8.897	0.000	3.294	1.949
RP_B.3 (V4t1)		0.163	-3.889	0.000	-0.634	-0.349
RP_B.3 (V4t2)	1.786	0.203	8.804	0.000	1.786	0.983
RgP.3 1 (V4t1)	-0.634	0.163	-3.889	0.000	-0.634	-0.359
RgP.3 2 (V4t2)	1.786	0.203	8.804	0.000	1.786	1.013
LP_B.3 (V5t1)	-2.289	0.489	-4.681	0.000	-2.289	-0.702
LP_B.3 (V5t2)	2.515	0.454	5.538	0.000	2.515	0.772
LrP.3 1 (V5t1)	-2.289	0.489	-4.681	0.000	-2.289	-0.731
LrP.3 2 (V5t2)	2.515	0.454	5.538	0.000	2.515	0.803
PR_B.3 (V6t1)	-1.443	0.272	-5.304	0.000	-1.443	-0.537
PR_B.3 (V6t2)	2.264	0.334	6.773	0.000	2.264	0.842
PcR.3 1 (V6t1)	-1.443	0.272	-5.304	0.000	-1.443	-0.557
PcR.3 2 (V6t2)	2.264	0.334	6.773	0.000	2.264	0.874
WS_B.3 (V7t1)	-3.277	0.919	-3.564	0.000	-3.277	-0.836
WS_B.3 (V7t2)	3.190	0.902	3.537	0.000	3.190	0.814

WrS.3 1 (V7t1)	-3.277	0.919	-3.564	0.000	-3.277	-0.871
WrS.3 2 (V7t2)	3.190	0.902	3.537	0.000	3.190	0.848
LGU_B.3 (V8t1)	-1.173	0.154	-7.601	0.000	-1.173	-0.565
LGU_B.3 (V8t2)	1.195	0.161	7.422	0.000	1.195	0.576
LGU.3 1 (V8t1)	-1.173	0.154	-7.601	0.000	-1.173	-0.633
LGU.3 2 (V8t2)	1.195	0.161	7.422	0.000	1.195	0.646
PR_B.3 (V9t1)	-0.851	0.179	-4.745	0.000	-0.851	-0.524
PR_B.3 (V9t2)	0.596	0.127	4.689	0.000	0.596	0.367
PsR.3 1 (V9t1)	-0.851	0.179	-4.745	0.000	-0.851	-0.708
PsR.3 2 (V9t2)	0.596	0.127	4.689	0.000	0.596	0.496
GAP_B.3 (V101)	-1.263	0.154	-8.178	0.000	-1.263	-0.605
GAP_B.3 (V102)	0.742	0.141	5.266	0.000	0.742	0.356
GAP.3 1 (V101)	-1.263	0.154	-8.178	0.000	-1.263	-0.678
GAP.3 2 (V102)	0.742	0.141	5.266	0.000	0.742	0.399
FAL_B.3 (V111)	-1.652	0.180	-9.186	0.000	-1.652	-0.628
FAL_B.3 (V112)	1.011	0.160	6.323	0.000	1.011	0.384
FAL.3 1 (V111)	-1.652	0.180	-9.186	0.000	-1.652	-0.714
FAL.3 2 (V112)	1.011	0.160	6.323	0.000	1.011	0.437
F_B.3 1 (V121)	-0.988	0.131	-7.543	0.000	-0.988	-0.634
F_B.3 2 (V122)	0.710	0.131	5.570	0.000	0.710	0.456
Fgh.3 1 (V121)	-0.988	0.131	-7.543	0.000	-0.988	-0.558
Fgh.3 2 (V122)	0.710	0.131	5.570	0.000	0.710	0.401
FH_B.3 (V131)		0.143	-10.050	0.000	-1.441	-0.844
FH_B.3 (V131)	0.763	0.143	5.399	0.000	0.763	0.447
-	-1.441	0.141	-10.050	0.000	-1.441	
F1H.3 1 (V131)						-0.734
F1H.3 2 (V132)	0.763	0.141	5.399	0.000	0.763	0.388
RW_B.3 (V141)	-1.807	0.167	-10.792	0.000	-1.807	-0.957
RW_B.3 (V142)	0.600	0.128	4.681	0.000	0.600	0.318
RgW.3 1 (V141)	-1.807	0.167	-10.792	0.000	-1.807	-0.822
RgW.3 2 (V142)	0.600	0.128	4.681	0.000	0.600	0.273
Variances:						
var rancos.	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
HRS.rpre	6.442	4.562	1.412	0.158	1.000	1.000
HRS.post	4.568	3.617	1.263	0.207	1.000	1.000
PS.rpre	2.304	0.614	3.751	0.000	1.000	1.000
PS.post	2.110	0.638	3.307	0.001	1.000	1.000
PRB.rpre	3.302	0.971	3.401	0.001	1.000	1.000
PRB.post	2.428	0.772	3.147	0.001	1.000	1.000
RBA.rpre	1.426	0.426	3.346	0.002	1.000	1.000
RBA.post	2.132	0.420	3.447	0.001	1.000	1.000
<u>-</u>		0.010	3.441	0.001		
.Hlthy_Rl_Bfr.3					1.000	0.134
.Commnct_Bfr.3n					1.000	0.399
.CnflctMngm_B.3					1.000	0.276
.RghtPrtnr_Bf.3					1.000	0.303
.LrnPrtnr_Bfr.3					1.000	0.094
.PcRltnshp_Bf.3					1.000	0.138
.WrnngSgns_Bf.3	1.000				1.000	0.065

.LrndGrwngU_B.3	1.000				1.000	0.232
.PstRltnshp_B.3	1.000				1.000	0.379
.GtAlngPrnt_B.3	1.000				1.000	0.229
.FrndshpsAL_B.3	1.000				1.000	0.144
.Fights_Befr.3n	1.000				1.000	0.412
.FlngsHrt_Bfr.3	1.000				1.000	0.344
$. {\tt RghtndWrng_B.3}$	1.000				1.000	0.280
$. {\tt Healthy_Rel.3n}$	1.347	1.004	1.341	0.180	1.347	0.228
.Communicate.3n	0.223	0.097	2.294	0.022	0.223	0.173
$. {\tt CnflctMngmnt.3}$	1.000				1.000	0.350
.RightPartnr.3n	1.000				1.000	0.322
$. {\tt LearnPartnr.3n}$	1.000				1.000	0.102
.PaceRltnshp.3n	1.000				1.000	0.149
.WarningSgns.3n	1.000				1.000	0.071
.LrndGrwngUp.3n	1.000				1.000	0.292
.PstRltnshps.3n	0.238	0.105	2.262	0.024	0.238	0.165
.GtAlngPrnts.3n	1.000				1.000	0.288
.FrndshpsArLk.3	1.000				1.000	0.187
.Fights.3n	1.000				1.000	0.319
.FeelingsHrt.3n	1.000				1.000	0.259
.RightndWrng.3n	1.000				1.000	0.207
Scales y*:						
v	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
Hlthy_Rl_Bfr.3	0.367				0.367	1.000
Commnct_Bfr.3n	0.632				0.632	1.000
CnflctMngm_B.3	0.526				0.526	1.000
Healthy_Rel.3n	0.411				0.411	1.000
Communicate.3n	0.880				0.880	1.000
CnflctMngmnt.3	0.592				0.592	1.000
RghtPrtnr_Bf.3	0.550				0.550	1.000
LrnPrtnr_Bfr.3	0.307				0.307	1.000
PcRltnshp_Bf.3	0.372				0.372	1.000
WrnngSgns_Bf.3	0.255				0.255	1.000
RightPartnr.3n	0.567				0.567	1.000
LearnPartnr.3n	0.319				0.319	1.000
PaceRltnshp.3n	0.386				0.386	1.000
WarningSgns.3n	0.266				0.266	1.000
LrndGrwngU_B.3	0.482				0.482	1.000
PstRltnshp_B.3	0.615				0.615	1.000
GtAlngPrnt_B.3	0.479				0.479	1.000
FrndshpsAL_B.3	0.380				0.380	1.000
LrndGrwngUp.3n	0.540				0.540	1.000
PstRltnshps.3n	0.832				0.832	1.000
GtAlngPrnts.3n	0.537				0.537	1.000
FrndshpsArLk.3	0.432				0.432	1.000
Fights_Befr.3n	0.642				0.432	1.000
FlngsHrt_Bfr.3	0.586					
	U DOD				0.586	1.000

RghtndWrng_B.3	0.530	0.530	1.000
Fights.3n	0.565	0.565	1.000
FeelingsHrt.3n	0.509	0.509	1.000
RightndWrng.3n	0.455	0.455	1.000

6.4.19 Model Comparison

8

9

10

11

12

13

sepc.lv

PRB.post =~

RBA.rpre =~

RBA.post =~

sepc.all

```
lavaan::anova(Fit.Rcomb.model.c.thresh, Fit.Rcomb.model.c.uniq.4)
Scaled Chi Square Difference Test (method = "satorra.2000")
                          Df AIC BIC Chisq Chisq diff Df diff Pr(>Chisq)
Fit.Rcomb.model.c.thresh 314
                                     230.75
Fit.Rcomb.model.c.uniq.4 336
                                     247.61
                                                            22
                                                                  0.09617
                                                30.997
Fit.Rcomb.model.c.thresh
Fit.Rcomb.model.c.uniq.4 .
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
6.4.20 Modification Indices
Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star
                  variables involved are: HRS.post PS.post
Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star
                  variables involved are: LearnPartner_Before.3n LearnPartner.3n
Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star
                  variables involved are: PaceRelationship Before.3n PaceRelationship.3n
Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star
                  variables involved are: WarningSigns_Before.3n WarningSigns.3n
Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star
                  variables involved are: PastRelationships_Before.3n PastRelationships.3n
Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star
                  variables involved are: FriendshipsAreLike_Before.3n FriendshipsAreLike.3n
                     lhs op
                                                   rhs
                                                                        ерс
                                        Healthy_Rel.3n 44.54177
1
                PRB.post =~
                                                                2.3120834
2
  ConflictManagement.3n ~~
                                       RightPartner.3n 39.07834 1.3718619
3
          Communicate.3n ~~
                                       WarningSigns.3n 21.55982 1.9765050
4
                                       LearnPartner.3n 19.38272
                RBA.post =~
                                                                 1.5879455
5
          Healthy_Rel.3n ~~
                                   PaceRelationship.3n 18.30637
                                                                 2.1345740
6
                PRB.rpre =~
                                  PastRelationships.3n 14.95638 -0.1503174
7
          Healthy_Rel.3n ~~
                                       WarningSigns.3n 14.88740
                                                                 2.9977181
```

RBA.post =~ PaceRelationship_Before.3n 10.71656

sepc.nox

PS.post =~ PaceRelationship_Before.3n 10.04845

ConflictManagement.3n 13.50449

PRB.post =~ PaceRelationship_Before.3n 10.91655 0.3071753

PastRelationships.3n 13.31064 -0.2104939

WarningSigns.3n 13.09416 1.2043908

0.8122554

0.3070527

0.3198928

1 3.6024931 1.4812385 1.4812385 2 1.3718619 1.3718619 1.3718619 3 1.9765050 4.1855659 4.1855659 4 2.3186152 0.7401448 0.7401448 5 2.1345740 1.8393548 1.8393548 6 -0.2731399 -0.2272182 -0.2272182 7 2.9977181 2.5831229 2.5831229 1.2655877 0.7488372 0.7488372 8 9 -0.2513582 -0.2090985 -0.2090985 10 1.7585735 0.4675424 0.4675424 11 0.4786146 0.1779867 0.1779867 12 0.4483385 0.1667277 0.1667277 13 0.4646775 0.1728038 0.1728038

6.5 2-factor Measurement Invariance

6.5.1 Configural Invariant

		Used	Total	
Number of observations		111	134	
Estimator		DWLS	Robust	
Model Fit Test Statistic	28	1.686	380.495	
Degrees of freedom		320	320	
P-value (Chi-square)		0.940	0.011	
Scaling correction factor			1.621	
Shift parameter			206.699	
for simple second-order correction	(Mplus var	iant)		
Model test baseline model:				
Minimum Function Test Statistic	1060	2.907	4580.137	
	1000.	378	378	
Degrees of freedom P-value		0.000	0.0	
P-value	,	0.000	0.000	
User model versus baseline model:				
Comparative Fit Index (CFI)		1.000	0.986	
Tucker-Lewis Index (TLI)		1.002	0.983	
ruonor bowrb rindon (121)		1.002	0.000	
Robust Comparative Fit Index (CFI)			NA	
Robust Tucker-Lewis Index (TLI)			NA	
,				
Root Mean Square Error of Approximation	ı:			
RMSEA	(0.000	0.041	
90 Percent Confidence Interval		0.008	0.021	0.057
P-value RMSEA <= 0.05		1.000	0.807	0.001
1 Value Inibili V 0.00		1.000	0.001	
Robust RMSEA			NA	
90 Percent Confidence Interval			NA	NA
Standardized Root Mean Square Residual:	:			

Parameter Estimates:

SRMR

Information Expected

0.089

0.089

Latent Variables:

datont variables.	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
HSP.rpre =~						
Hlthy_Rl_Bfr.3	1.000				1.697	0.862
Commnct_Bfr.3n	0.609	0.155	3.922	0.000	1.034	0.719
CnflctMngm_B.3	0.852	0.204	4.174	0.000	1.447	0.823
RghtPrtnr_Bf.3	0.970	0.274	3.542	0.000	1.646	0.855
LrnPrtnr_Bfr.3	1.340	0.369	3.633	0.000	2.274	0.915
PcRltnshp_Bf.3	1.188	0.318	3.733	0.000	2.017	0.896
WrnngSgns_Bf.3	0.921	0.228	4.034	0.000	1.564	0.843
HSP.post =~						
Healthy_Rel.3n	1.000				1.309	0.886
Communicate.3n	0.207	0.158	1.308	0.191	0.271	0.925
CnflctMngmnt.3	0.426	0.201	2.118	0.034	0.558	0.778
RightPartnr.3n	1.136	0.478	2.377	0.017	1.486	0.771
LearnPartnr.3n	1.166	0.573	2.035	0.042	1.526	0.947
PaceRltnshp.3n	0.976	0.398	2.452	0.014	1.278	0.923
WarningSgns.3n	0.679	0.362	1.878	0.060	0.889	0.991
PBA.rpre =~						
LrndGrwngU_B.3	1.000				1.705	0.892
PstRltnshp_B.3	0.935	0.151	6.193	0.000	1.594	0.771
<pre>GtAlngPrnt_B.3</pre>	1.037	0.151	6.866	0.000	1.768	0.861
FrndshpsAL_B.3	1.129	0.192	5.887	0.000	1.924	0.906
Fights_Befr.3n	0.719	0.129	5.575	0.000	1.226	0.730
FlngsHrt_Bfr.3	0.883	0.107	8.219	0.000	1.505	0.794
RghtndWrng_B.3	0.826	0.122	6.765	0.000	1.408	0.789
PBA.post =~						
LrndGrwngUp.3n	1.000				1.109	0.795
PstRltnshps.3n	1.077	0.242	4.456	0.000	1.195	0.870
GtAlngPrnts.3n	1.475	0.273	5.407	0.000	1.636	0.841
FrndshpsArLk.3	1.633	0.266	6.132	0.000	1.811	0.887
Fights.3n	1.382	0.354	3.901	0.000	1.533	0.848
FeelingsHrt.3n	1.247	0.240	5.197	0.000	1.383	0.863
RightndWrng.3n	1.751	0.366	4.784	0.000	1.942	0.926

${\tt Covariances:}$

	Estimate	Std.Err	z-value	P(> z)
HSP.rpre ~~				
HSP.post	0.087	0.236	0.368	0.713
PBA.rpre	1.795	0.441	4.071	0.000
PBA.post	-0.076	0.199	-0.384	0.701
HSP.post ~~				
PBA.rpre	0.459	0.267	1.718	0.086
PBA.post	1.125	0.378	2.977	0.003
PBA.rpre ~~				

PBA.pos	t	0.621	0.199	3.122	0.002
• –	el_Before.3n ~~				
.Healthy		0.665	0.334	1.994	0.046
.Communica	te_Before.3n ~~	0.115	0.094	1.224	0.221
	anagement_Before.3n ~~	0.110	0.001	1.221	0.221
.CnflctM	_	0.265	0.152	1.741	0.082
-	ner_Before.3n ~~				
.RightPa		0.052	0.434	0.119	0.905
.LearnPart .LearnPa	ner_Before.3n ~~	0.420	0.467	0.899	0.368
	ionship_Before.3n ~~	0.120	0.407	0.000	0.000
.PaceRlt		0.409	0.352	1.160	0.246
_	gns_Before.3n ~~				
.Warning	_	0.097	0.157	0.616	0.538
.LearnedGr .LrndGrw	owingUp_Before.3n ~~	0.292	0.281	1.042	0.297
	ionships_Before.3n ~~	0.232	0.201	1.042	0.231
.PstRltn	• =	0.977	0.296	3.306	0.001
_	arents_Before.3n ~~				
.GtAlngP		0.698	0.311	2.248	0.025
.Friendshi .Frndshp	psAreLike_Before.3n ~~	1.330	0.280	4.753	0.000
_	fore.3n ~~	1.550	0.200	4.700	0.000
.Fights.		0.664	0.245	2.710	0.007
.FeelingsH	urt_Before.3n ~~				
.Feeling		0.524	0.318	1.649	0.099
-	rong_Before.3n ~~	0.700	0.005	0.004	0.040
.Rightnd	_	0.790	0.335	2.361	0.018
.ConflictM .RightPa	anagement.3n ~~	0.281	0.264	1.063	0.288
•	Std.all	0.201	0.204	1.003	0.200
204.11					
0.039	0.039				
0.620	0.620				
-0.041	-0.041				
0.206	0.206				
0.200	0.775				
0.110					
0.328	0.328				
0.005	0.074				
0.665	0.971				
0.115	1.033				
0.265	0.589				

0.052	0.042
0.420	0.813
0.409	0.769
0.097	0.794
0.292	0.401
0.977	1.098
0.698	0.635
1.330	1.569
0.664	0.606
0.524	0.560
0.790	0.912
0.281	0.508

	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
HSP.rpre	0.000				0.000	0.000
HSP.post	3.456	0.624	5.543	0.000	2.641	2.641
PBA.rpre	-1.301	0.220	-5.923	0.000	-0.763	-0.763
PBA.post	1.028	0.145	7.079	0.000	0.926	0.926
.Hlthy_Rl_Bfr.3	0.000				0.000	0.000
$. {\tt Commnct_Bfr.3n}$	0.000				0.000	0.000
.CnflctMngm_B.3	0.000				0.000	0.000
.Healthy_Rel.3n	0.000				0.000	0.000
.Communicate.3n	0.000				0.000	0.000
$. {\tt CnflctMngmnt.3}$	0.000				0.000	0.000
.RghtPrtnr_Bf.3	0.000				0.000	0.000
.LrnPrtnr_Bfr.3	0.000				0.000	0.000
.PcRltnshp_Bf.3	0.000				0.000	0.000
.WrnngSgns_Bf.3	0.000				0.000	0.000
$.\mathtt{RightPartnr.3n}$	0.000				0.000	0.000
.LearnPartnr.3n	0.000				0.000	0.000
.PaceRltnshp.3n	0.000				0.000	0.000
.WarningSgns.3n	0.000				0.000	0.000
$. LrndGrwngU_B.3$	0.000				0.000	0.000
.PstRltnshp_B.3	0.000				0.000	0.000
.GtAlngPrnt_B.3	0.000				0.000	0.000
.FrndshpsAL_B.3	0.000				0.000	0.000

.LrndGrw .PstRltn .GtAlngP .Frndshp .FightsFlngsHr .RghtndW .Fights.	shps.3n rnts.3n sArLk.3 Befr.3n t_Bfr.3	0.000 0.000 0.000				0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000
.Feeling .Rightnd						0.000	0.000
Thresholds:	J						
		Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
H_R_B.	(V1t1)	0.610	0.268	2.279	0.023	0.610	0.310
H_R_B.	(V1t2)	3.339	0.571	5.853	0.000	3.339	1.695
H_R.3	(V1t1)	0.610	0.268	2.279	0.023	0.610	0.413
H_R.3	(V1t2)	3.339	0.571	5.853	0.000	3.339	2.260
C_B.3	(V2t1)	0.245	0.177	1.386	0.166	0.245	0.170
C_B.3	(V2T1)	2.311	0.313	7.383	0.000	2.311	1.607
Cm.3 1	(V2t1)	0.245	0.177	1.386	0.166	0.245	0.837
Cm.3 2	(V2T2)	0.712	0.544	1.309	0.190	0.712	2.432
CM_B.3	(V3t1)	0.587	0.230	2.547	0.011	0.587	0.334
CM_B.3	(V3T1)	2.981	0.429	6.955	0.000	2.981	1.695
CM.3 1	(V3t1)	0.587	0.230	2.547	0.011	0.587	0.819
CM.3 2	(V3T2)	1.594	0.698	2.285	0.022	1.594	2.226
RP_B.3	(V4t1)	1.340	0.329	4.068	0.000	1.340	0.696
RP_B.3	(V4T1)	4.556	0.842	5.408	0.000	4.556	2.365
RP.3 1	(V4t1)	1.340	0.329	4.068	0.000	1.340	0.695
RP.3 2	(V4T2)	3.990	1.522	2.621	0.009	3.990	2.069
LP_B.3	(V5t1)	1.132	0.398	2.841	0.004	1.132	0.456
LP_B.3	(V5T1)	5.208	1.172	4.443	0.000	5.208	2.097
LP.3 1	(V5t1)	1.132	0.398	2.841	0.004	1.132	0.702
LP.3 2	(V5T2)	3.532	1.580	2.235	0.025	3.532	2.191
PR_B.3	(V6t1)	1.257	0.377	3.333	0.001	1.257	0.558
PR_B.3	(V6T1)	4.337	0.772	5.620	0.000	4.337	1.926
PR.3 1	(V6t1)	1.257	0.377	3.333	0.001	1.257	0.908
PR.3 2	(V6T2)	3.138	1.183	2.653	0.008	3.138	2.268
WS_B.3	(V7t1)	0.619	0.248	2.501	0.012	0.619	0.334
WS_B.3	(V7T1)	3.576	0.591	6.047	0.000	3.576	1.926
WS.3 1	(V7t1)	0.619	0.248	2.501	0.012	0.619	0.690
WS.3 2	(V7T2)	2.133	1.091	1.955	0.051	2.133	2.377
LGU_B.	(V8t1)	-1.106	0.155	-7.154	0.000	-1.106	-0.579
LGU_B.	(V8T1)	1.158	0.257	4.510	0.000	1.158	0.606
LGU.3	(V8t1)	-1.106	0.155	-7.154	0.000	-1.106	-0.793
LGU.3	(V8T2)	0.790	0.151	5.223	0.000	0.790	0.566
PR_B.3	(V9t1)	-1.099	0.178	-6.157	0.000	-1.099	-0.532
PR_B.3	(V9T1)	1.063	0.268	3.969	0.000	1.063	0.514
PR.3 1	(V9t1)	-1.099	0.178	-6.157	0.000	-1.099	-0.800

PR.3 2 (V9T2)	0.516	0.141	3.645	0.000	0.516	0.376
GAP_B. (V101)	-1.325	0.162	-8.177	0.000	-1.325	-0.645
GAP_B. (V10T1)	0.264	0.249	1.058	0.290	0.264	0.128
GAP.3 (V101)	-1.325	0.162	-8.177	0.000	-1.325	-0.681
GAP.3 (V10T2)	1.050	0.225	4.665	0.000	1.050	0.540
FAL_B. (V111)	-1.444	0.171	-8.440	0.000	-1.444	-0.680
FAL_B. (V11T1)	0.404	0.245	1.648	0.099	0.404	0.190
FAL.3 (V111)	-1.444	0.171	-8.440	0.000	-1.444	-0.708
FAL.3 (V11T2)	1.094	0.192	5.693	0.000	1.094	0.536
F_B.3 (V121)	-1.106	0.134	-8.281	0.000	-1.106	-0.659
F_B.3 (V12T1)	0.600	0.243	2.465	0.014	0.600	0.358
Fg.3 1 (V121)	-1.106	0.134	-8.281	0.000	-1.106	-0.612
Fg.3 2 (V12T2)	0.774	0.237	3.261	0.001	0.774	0.429
FH_B.3 (V131)	-1.602	0.141	-11.337	0.000	-1.602	-0.845
FH_B.3 (V13T1)	0.792	0.293	2.700	0.007	0.792	0.418
FH.3 1 (V131)	-1.602	0.141	-11.337	0.000	-1.602	-0.999
FH.3 2 (V13T2)	0.511	0.182	2.804	0.005	0.511	0.318
RW_B.3 (V141)	-1.755	0.148	-11.862	0.000	-1.755	-0.984
RW B.3 (V14T1)	0.439	0.246	1.786	0.074	0.439	0.246
RW.3 1 (V141)	-1.755	0.148	-11.862	0.000	-1.755	-0.837
RW.3 2 (V14T2)	0.628	0.200	3.142	0.002	0.628	0.300
Variances:						
varianoop.	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
HSP.rpre	2.881	1.142	2.523	0.012	1.000	1.000
HSP.post	1.713	0.797	2.148	0.032	1.000	1.000
PBA.rpre	2.907	0.368	7.890	0.002	1.000	1.000
PBA.post	1.230	0.322	3.823	0.000	1.000	1.000
.Hlthy_Rl_Bfr.3	1.000	0.022	0.020	0.000	1.000	0.258
.Commnct_Bfr.3n	1.000				1.000	0.483
.CnflctMngm_B.3	1.000				1.000	0.323
.RghtPrtnr_Bf.3	1.000				1.000	0.270
•	1.000				1.000	0.162
.LrnPrtnr_Bfr.3						
.PcRltnshp_Bf.3	1.000				1.000	0.197
.WrnngSgns_Bf.3	1.000	0 042	2 061	0 000	1.000	0.290
.LrndGrwngU_B.3	0.745	0.243	3.061	0.002	0.745	0.204
.PstRltnshp_B.3	1.733	0.206	8.426	0.000	1.733	0.405
.GtAlngPrnt_B.3	1.091	0.332	3.291	0.001	1.091	0.259
.FrndshpsAL_B.3	0.811	0.226	3.591	0.000	0.811	0.180
.Fights_Befr.3n	1.313	0.345	3.807	0.000	1.313	0.466
.FlngsHrt_Bfr.3	1.333	0.223	5.976	0.000	1.333	0.370
.RghtndWrng_B.3	1.201	0.264	4.550	0.000	1.201	0.377
.Healthy_Rel.3n	0.470	0.200	2.345	0.019	0.470	0.215
.Communicate.3n	0.012	0.020	0.611	0.541	0.012	0.144
.CnflctMngmnt.3	0.202	0.212	0.956	0.339	0.202	0.394
.RightPartnr.3n	1.510	1.517	0.995	0.320	1.510	0.406
.LearnPartnr.3n	0.267	0.300	0.892	0.372	0.267	0.103
.PaceRltnshp.3n	0.283	0.280	1.011	0.312	0.283	0.148

.WarningSgns.3n		0.038	0.390	0.696	0.015	0.018
.LrndGrwngUp.3n		0.198	3.616	0.000	0.716	0.368
.PstRltnshps $.$ 3n	0.457	0.121	3.789	0.000	0.457	0.243
$. {\tt GtAlngPrnts.3n}$	1.107	0.233	4.745	0.000	1.107	0.293
.FrndshpsArLk.3	0.886	0.131	6.755	0.000	0.886	0.213
.Fights.3n	0.915	0.264	3.464	0.001	0.915	0.280
.FeelingsHrt.3n	0.657	0.246	2.674	0.007	0.657	0.256
.RightndWrng.3n	0.626	0.195	3.207	0.001	0.626	0.142
Scales y*:						
	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
Hlthy_Rl_Bfr.3	0.508				0.508	1.000
Commnct_Bfr.3n	0.695				0.695	1.000
CnflctMngm_B.3	0.569				0.569	1.000
RghtPrtnr_Bf.3	0.519				0.519	1.000
LrnPrtnr_Bfr.3	0.403				0.403	1.000
PcRltnshp_Bf.3	0.444				0.444	1.000
WrnngSgns_Bf.3	0.539				0.539	1.000
Healthy_Rel.3n	0.677				0.677	1.000
Communicate.3n	3.417				3.417	1.000
CnflctMngmnt.3	1.396				1.396	1.000
RightPartnr.3n	0.519				0.519	1.000
LearnPartnr.3n	0.621				0.621	1.000
PaceRltnshp.3n	0.723				0.723	1.000
WarningSgns.3n	1.114				1.114	1.000
LrndGrwngU_B.3	0.523				0.523	1.000
PstRltnshp_B.3	0.484				0.484	1.000
GtAlngPrnt_B.3	0.487				0.487	1.000
FrndshpsAL_B.3	0.471				0.471	1.000
Fights_Befr.3n	0.596				0.596	1.000
FlngsHrt_Bfr.3	0.527				0.527	1.000
RghtndWrng_B.3	0.560				0.560	1.000
LrndGrwngUp.3n	0.717				0.717	1.000
PstRltnshps.3n	0.728				0.728	1.000
GtAlngPrnts.3n	0.514				0.514	1.000
FrndshpsArLk.3					0.490	1.000
Fights.3n	0.553				0.553	1.000
FeelingsHrt.3n	0.624				0.624	1.000
RightndWrng.3n	0.477				0.477	1.000

6.5.2 Modification Indices

7 0.2654812 0.2654812

```
variables involved are: Communicate_Before.3n Communicate.3n
Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star
                  variables involved are: PastRelationships Before.3n PastRelationships.3n
Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star
                  variables involved are: FriendshipsAreLike_Before.3n FriendshipsAreLike.3n
       lhs op
                                                            sepc.lv
                                           mi
                                                     ерс
1 HSP.post =~
              FriendshipsAreLike.3n 18.96825 -0.7843553 -1.0265673
2 HSP.rpre =~
               PastRelationships.3n 15.85863 -0.1654631 -0.2808634
                     FeelingsHurt.3n 15.84940 0.5454782 0.7139239
3 HSP.post =~
4 PBA.rpre =~
               PastRelationships.3n 15.81571 -0.1823591 -0.3109228
5 PBA.rpre =~ Healthy_Rel_Before.3n 13.71078 0.3342537 0.5699036
6 PBA.rpre =~ RightPartner_Before.3n 12.13445 -0.3559690 -0.6069283
7 HSP.rpre =~
                   Fights_Before.3n 10.70394 0.2624290 0.4454569
              sepc.nox
    sepc.all
1 -0.5030227 -0.5030227
2 -0.2045737 -0.2045737
3 0.4452451 0.4452451
4 -0.2264681 -0.2264681
5 0.2892764 0.2892764
6 -0.3151152 -0.3151152
```

Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star

6.5.3 Loading Invariant

lavaan (0.6-1) converged normally after 254 iterations

		Used	Total	
Number of observations		111	134	
Estimator		DWLS	Robust	
Model Fit Test Statistic	2	88.331	392.406	
Degrees of freedom		332	332	
P-value (Chi-square)		0.960	0.013	
Scaling correction factor			1.633	
Shift parameter			215.880	
for simple second-order correction	(Mplus va	riant)		
Model test baseline model:				
Minimum Function Test Statistic	186	02.907	4580.137	
Degrees of freedom		378	378	
P-value		0.000	0.000	
User model versus baseline model:				
Comparative Fit Index (CFI)		1.000	0.986	
Tucker-Lewis Index (TLI)		1.003	0.984	
Robust Comparative Fit Index (CFI)			NA	
Robust Tucker-Lewis Index (TLI)			NA	
Root Mean Square Error of Approximation	ı:			
RMSEA		0.000	0.041	
90 Percent Confidence Interval	0.000	0.000		0.056
P-value RMSEA <= 0.05		1.000	0.832	
Robust RMSEA			NA	
90 Percent Confidence Interval			NA	NA
Standardized Root Mean Square Residual:	:			
SRMR		0.089	0.089	
Parameter Estimates:				
Information	Ex	pected		
		_		

Unstructured

Robust.sem

Information saturated (h1) model

Standard Errors

Latent Variables: Estimate Std.Err z-value P(> z) Std.lv Std.	all
	атт
HSP.rpre =~	
	861
	716
_	819
_	858
-	916
_	895
_	843
HSP.post =~	
H1_R.3 1.000 1.520 0.	889
Cmmn.3 (HSPL2) 0.606 0.155 3.912 0.000 0.920 0.	922
CnfM.3 (HSPL3) 0.844 0.202 4.176 0.000 1.282 0.	773
RghP.3 (HSPL4) 0.987 0.275 3.587 0.000 1.499 0.	775
LrnP.3 (HSPL5) 1.347 0.373 3.612 0.000 2.048 0.	948
PcRl.3 (HSPL6) 1.187 0.317 3.739 0.000 1.804 0.	923
WrnS.3 (HSPL7) 0.924 0.230 4.020 0.000 1.404 0.	991
PBA.rpre =~	
LGU_B. 1.000 0.281 0.	892
PR_B.3 (PBAL2) 1.462 0.144 10.159 0.000 0.411 0.411	771
GAP_B. (PBAL3) 1.090 0.110 9.873 0.000 0.307 0	861
FAL_B. (PBAL4) 1.461 0.109 13.406 0.000 0.411 0	906
Fg_B.3 (PBAL5) 1.376 0.146 9.412 0.000 0.387 0	731
FH_B.3 (PBAL6) 1.458 0.191 7.633 0.000 0.410 0.000	793
RW_B.3 (PBAL7) 1.870 0.291 6.426 0.000 0.526 0.	789
PBA.post =~	
	799
	872
	840
	886
	843
	868
RghW.3 (PBAL7) 1.870 0.291 6.426 0.000 3.642 0.000	925
Covariances:	
Estimate Std.Err z-value P(> z)	
HSP.rpre ~~	
HSP.post 0.101 0.272 0.371 0.713	
PBA.rpre 0.296 0.850 0.348 0.728	3
PBA.post -0.135 0.348 -0.388 0.698	3
HSP.post ~~	
PBA.rpre 0.088 0.253 0.347 0.728	
PBA.post 2.292 0.631 3.632 0.000)
PBA.rpre ~~	
PBA.post 0.180 0.512 0.351 0.726	5

.Healthy_Rel_Before.3n ~~

	D 3 0	0 700		4 040	0 050
	y_Rel.3n	0.769	0.402	1.912	0.056
	ate_Before.3n ~~	0.000	0.450	0 540	0 011
	icate.3n	0.390	0.153	2.540	0.011
	Management_Before.3n ~~		0.050	0 400	0.045
	Mngmnt.3	0.609	0.250	2.433	0.015
-	tner_Before.3n ~~	0.054	0 400	0.447	0.000
	artnr.3n	0.051	0.438	0.117	0.906
	tner_Before.3n ~~ artnr.3n	0 565	0 560	1 000	0 212
	tionship_Before.3n ~~	0.565	0.560	1.008	0.313
	tnshp.3n	0.576	0.471	1.223	0.221
	igns_Before.3n ~~	0.576	0.471	1.223	0.221
_	gSgns.3n	0.153	0.244	0.624	0.532
	rowingUp_Before.3n ~~	0.155	0.244	0.024	0.002
	wngUp.3n	0.083	0.255	0.327	0.743
	tionships_Before.3n ~~	0.000	0.200	0.021	0.740
	nshps.3n	0.599	1.745	0.344	0.731
	Parents_Before.3n ~~	0.000	11110	0.011	01101
_	Prnts.3n	0.158	0.467	0.339	0.735
_	ipsAreLike_Before.3n ~~		0.7.20.	0.000	01.00
	psArLk.3	0.448	1.298	0.345	0.730
	efore.3n ~~				
.Fights		0.371	1.065	0.349	0.727
_	Hurt_Before.3n ~~				
.Feelin	gsHrt.3n	0.289	0.833	0.347	0.729
.Rightand	Wrong_Before.3n ~~				
.Rightn	dWrng.3n	0.555	1.467	0.378	0.705
.Conflict	Management.3n ~~				
.RightP	artnr.3n	0.653	0.310	2.103	0.035
Std.lv	Std.all				
0.039	0.039				
0.621	0.621				
-0.041	-0.041				
0.206	0.206				
0.775	0.775				
0.000	0.000				
0.328	0.328				
0.760	0.001				
0.769	0.981				
0.300	1 008				
0.390	1.008				
0.609	0.579				
0.009	0.013				
0.051	0.042				
0.001	V. V42				

0.565	0.825
0.576	0.768
0.153	0.799
0.083	0.400
0.599	1.103
0.158	0.634
0.448	1.562
0.371	0.600
0.289	0.566
0.555	0.909
0.653	0.508

	Estimate	Std.Err	z-value	P(> z)	${\tt Std.lv}$	Std.all
HSP.rpre	0.000				0.000	0.000
HSP.post	3.546	0.638	5.556	0.000	2.334	2.334
PBA.rpre	-1.052	0.177	-5.941	0.000	-3.739	-3.739
PBA.post	2.445	0.320	7.630	0.000	1.255	1.255
.Hlthy_Rl_Bfr.3	0.000				0.000	0.000
.Commnct_Bfr.3n	0.000				0.000	0.000
.CnflctMngm_B.3	0.000				0.000	0.000
.Healthy_Rel.3n	0.000				0.000	0.000
.Communicate.3n	0.000				0.000	0.000
.CnflctMngmnt.3	0.000				0.000	0.000
.RghtPrtnr_Bf.3	0.000				0.000	0.000
.LrnPrtnr_Bfr.3	0.000				0.000	0.000
.PcRltnshp_Bf.3	0.000				0.000	0.000
.WrnngSgns_Bf.3	0.000				0.000	0.000
$.\mathtt{RightPartnr.3n}$	0.000				0.000	0.000
$. {\tt LearnPartnr.3n}$	0.000				0.000	0.000
$. {\tt PaceRltnshp.3n}$	0.000				0.000	0.000
.WarningSgns.3n	0.000				0.000	0.000
$. LrndGrwngU_B.3$	0.000				0.000	0.000
.PstRltnshp_B.3	0.000				0.000	0.000
.GtAlngPrnt_B.3	0.000				0.000	0.000
.FrndshpsAL_B.3	0.000				0.000	0.000
$. {\tt LrndGrwngUp.3n}$	0.000				0.000	0.000
.PstRltnshps.3n	0.000				0.000	0.000

.GtAlngPr .Frndshps .Fights_I .FlngsHrt .RghtndWr .Fights.3 .Feelings .RightndW	sArLk.3 Befr.3n t_Bfr.3 rng_B.3 Bn sHrt.3n	0.000 0.000 0.000 0.000 0.000				0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000
Thresholds:							
		Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
H_R_B.	(V1t1)	0.523	0.255	2.052	0.040	0.523	0.266
 Н_R_В.	(V1t2)	3.396	0.570	5.956	0.000	3.396	1.726
H_R.3	(V1t1)	0.523	0.255	2.052	0.040	0.523	0.306
H_R.3	(V1t2)	3.396	0.570	5.956	0.000	3.396	1.986
C_B.3	(V2t1)	0.374	0.155	2.409	0.016	0.374	0.261
C_B.3	(V2T1)	2.302	0.311	7.403	0.000	2.302	1.607
Cm.3 1	(V2t1)	0.374	0.155	2.409	0.016	0.374	0.375
Cm.3 2	(V2T2)	2.136	0.369	5.787	0.000	2.136	2.140
CM_B.3	(V3t1)	0.723	0.236	3.060	0.002	0.723	0.415
CM_B.3	(V3T1)	2.957	0.420	7.035	0.000	2.957	1.695
CM.3 1	(V3t1)	0.723	0.236	3.060	0.002	0.723	0.436
CM.3 2	(V3T2)	3.274	0.593	5.524	0.000	3.274	1.975
RP_B.3	(V4t1)	1.185	0.336	3.524	0.000	1.185	0.608
RP_B.3	(V4T1)	4.608	0.854	5.394	0.000	4.608	2.365
RP.3 1	(V4t1)	1.185	0.336	3.524	0.000	1.185	0.613
RP.3 2	(V4T2)	3.564	0.897	3.971	0.000	3.564	1.843
LP_B.3	(V5t1)	1.066	0.377	2.831	0.005	1.066	0.428
LP_B.3	(V5T1)	5.226	1.185	4.411	0.000	5.226	2.097
LP.3 1	(V5t1)	1.066	0.377	2.831	0.005	1.066	0.494
LP.3 2	(V5T2)	4.109	1.043	3.941	0.000	4.109	1.903
PR_B.3	(V6t1)	1.242	0.359	3.455	0.001	1.242	0.553
PR_B.3		4.327		5.617	0.000	4.327	
PR.3 1	(V6t1)	1.242	0.359	3.455	0.001	1.242	0.636
	(V6T2)	3.877	0.885		0.000	3.877	1.984
	(V7t1)	0.598	0.228	2.618	0.009	0.598	0.322
_	(V7T1)		0.592	6.044	0.000	3.578	1.926
WS.3 1	(V7t1)	0.598	0.228	2.618	0.009	0.598	0.422
	(V7T2)		0.671	4.378	0.000	2.936	2.073
	(V8t1)			-9.188	0.000	-1.022	
-	(V8T1)		1.012	-0.639	0.523	-0.646	-2.049
LGU.3	(V8t1)	-1.022	0.111	-9.188	0.000	-1.022	-0.419
LGU.3	(V8T2)	2.030	0.338	5.997	0.000	2.030	0.833
PR_B.3	(V9t1)	-1.510	0.199	-7.589	0.000	-1.510	-2.830
PR_B.3	(V9T1)	-0.950	1.461	-0.650	0.516	-0.950	-1.781
PR.3 1	(V9t1)	-1.510	0.199	-7.589	0.000	-1.510	-0.462
PR.3 2	(V9T2)			5.035	0.000	2.167	0.664
GAP_B.	(V101)		0.218	-5.235	0.000	-1.142	-3.205

	GAP_B.	(V10T1)	-0.867	0.602	-1.440	0.150	-0.867	-2.434
	GAP.3	(V101)	-1.142	0.218	-5.235	0.000	-1.142	-0.452
	GAP.3	(V10T2)	2.060	0.301	6.840	0.000	2.060	0.814
	FAL_B.	(V111)	-1.530	0.246	-6.224	0.000	-1.530	-3.372
	FAL_B.	(V11T1)	-1.137	0.914	-1.244	0.214	-1.137	-2.506
	FAL.3	(V111)	-1.530	0.246	-6.224	0.000	-1.530	-0.477
	FAL.3	(V11T2)	2.652	0.372	7.137	0.000	2.652	0.826
	F_B.3	(V121)	-1.497	0.345	-4.337	0.000	-1.497	-2.823
	F_B.3	(V12T1)	-0.963	1.195	-0.806	0.420	-0.963	-1.817
	Fg.3 1	(V121)	-1.497	0.345	-4.337	0.000	-1.497	-0.471
	Fg.3 2	(V12T2)	2.229	0.577	3.864	0.000	2.229	0.701
	FH_B.3	(V131)	-1.662	0.579	-2.869	0.004	-1.662	-3.215
	FH_B.3	(V13T1)	-1.005	1.329	-0.756	0.449	-1.005	-1.943
	FH.3 1	(V131)	-1.662	0.579	-2.869	0.004	-1.662	-0.508
	FH.3 2	(V13T2)	1.992	0.544	3.659	0.000	1.992	0.609
	RW_B.3	(V141)	-2.221	0.775	-2.866	0.004	-2.221	-3.331
	RW_B.3	(V14T1)	-1.402	1.504	-0.932	0.351	-1.402	-2.103
	RW.3 1	(V141)	-2.221	0.775	-2.866	0.004	-2.221	-0.564
	RW.3 2	(V14T2)	2.375	0.815	2.915	0.004	2.375	0.603
Vari	ances:							
			Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
	HSP.rpr	re .	2.872	1.132	2.536	0.011	1.000	1.000
	HSP.pos		2.309	1.041	2.219	0.026	1.000	1.000
	PBA.rpr		0.079	0.454	0.174	0.862	1.000	1.000
	PBA.pos		3.793	0.376	10.076	0.000	1.000	1.000
	-	Rl_Bfr.3	1.000				1.000	0.258
	•	_Bfr.3n	1.000				1.000	0.487
	CnflctM	Ingm_B.3	1.000				1.000	0.329
	RghtPrt	nr_Bf.3	1.000				1.000	0.263
	LrnPrtn	r_Bfr.3	1.000				1.000	0.161
•	PcRltns	shp_Bf.3	1.000				1.000	0.198
•	WrnngSg	gns_Bf.3	1.000				1.000	0.290
		mgU_B.3	0.020	0.117	0.174	0.862	0.020	0.204
•	PstRltn	shp_B.3	0.115	0.665	0.174	0.862	0.115	0.405
	GtAlngF	Prnt_B.3	0.033	0.190	0.173	0.862	0.033	0.259
•	Frndshp	sAL_B.3	0.037	0.213	0.173	0.862	0.037	0.180
•	Fights_	Befr.3n	0.131	0.746	0.176	0.861	0.131	0.466
•	FlngsHr	rt_Bfr.3	0.099	0.564	0.176	0.861	0.099	0.371
•	RghtndW	Irng_B.3	0.168	0.924	0.181	0.856	0.168	0.377
	Healthy	_Rel.3n	0.615	0.276	2.228	0.026	0.615	0.210
	Communi	.cate.3n	0.150	0.069	2.180	0.029	0.150	0.150
	CnflctM	ingmnt.3	1.105	0.433	2.554	0.011	1.105	0.402
		rtnr.3n	1.492	0.799	1.867	0.062	1.492	0.399
	_	rtnr.3n	0.468	0.304	1.541	0.123	0.468	0.100
•	PaceRlt	nshp.3n	0.564	0.294	1.919	0.055	0.564	0.148
		gSgns.3n	0.037	0.087	0.419	0.675	0.037	0.018
	LrndGrw	ngUp.3n	2.147	0.518	4.147	0.000	2.147	0.361

.PstRltnshps.3n	2.559	0.247	10.345	0.000	2.559	0.240
.GtAlngPrnts.3n	1.888	0.217	8.722	0.000	1.888	0.295
.FrndshpsArLk.3	2.219	0.196	11.307	0.000	2.219	0.215
.Fights.3n	2.916	0.224	13.026	0.000	2.916	0.289
.FeelingsHrt.3n	2.631	0.323	8.144	0.000	2.631	0.246
.RightndWrng.3n	2.223	0.349	6.373	0.000	2.223	0.144
Scales y*:						
	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
Hlthy_Rl_Bfr.3	0.508				0.508	1.000
Commnct_Bfr.3n	0.698				0.698	1.000
CnflctMngm_B.3	0.573				0.573	1.000
RghtPrtnr_Bf.3	0.513				0.513	1.000
LrnPrtnr_Bfr.3	0.401				0.401	1.000
PcRltnshp_Bf.3	0.445				0.445	1.000
WrnngSgns_Bf.3	0.538				0.538	1.000
Healthy_Rel.3n	0.585				0.585	1.000
Communicate.3n	1.002				1.002	1.000
CnflctMngmnt.3	0.603				0.603	1.000
RightPartnr.3n	0.517				0.517	1.000
LearnPartnr.3n	0.463				0.463	1.000
PaceRltnshp.3n	0.512				0.512	1.000
WarningSgns.3n	0.706				0.706	1.000
LrndGrwngU_B.3	3.171				3.171	1.000
PstRltnshp_B.3	1.874				1.874	1.000
GtAlngPrnt_B.3	2.806				2.806	1.000
FrndshpsAL_B.3	2.203				2.203	1.000
Fights_Befr.3n	1.886				1.886	1.000
FlngsHrt_Bfr.3	1.934				1.934	1.000
RghtndWrng_B.3	1.500				1.500	1.000
LrndGrwngUp.3n	0.410				0.410	1.000
PstRltnshps.3n	0.306				0.306	1.000
GtAlngPrnts.3n	0.395				0.395	1.000
FrndshpsArLk.3	0.311				0.311	1.000
Fights.3n	0.315				0.315	1.000
FeelingsHrt.3n	0.306				0.306	1.000
RightndWrng.3n	0.254				0.254	1.000

6.5.4 Modification Indices

```
Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star
                  variables involved are: Communicate_Before.3n Communicate.3n
Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star
                  variables involved are: PastRelationships Before.3n PastRelationships.3n
Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star
                 variables involved are: FriendshipsAreLike Before.3n FriendshipsAreLike.3n
       lhs op
                                                mi
                                                            ерс
                                                                  sepc.lv
1 HSP.rpre =~
                   FriendshipsAreLike.3n 331.61356 39.32687535 66.6433951
2 HSP.post =~
                   FriendshipsAreLike.3n 22.02770 -1.19399880 -1.8144249
3 HSP.rpre =~
                    PastRelationships.3n 17.05313 -0.42463274 -0.7195834
4 HSP.post =~
                         FeelingsHurt.3n 16.90601 0.96933129 1.4730156
5 PBA.post =~ PastRelationships_Before.3n 11.44762 0.05374411 0.1046674
6 HSP.rpre =~
                        Fights_Before.3n 10.68566 0.08303441 0.1407103
7 PBA.rpre =~
                    PastRelationships.3n 10.34116 -1.59165728 -0.4479046
              sepc.nox
    sepc.all
1 20.7537932 20.7537932
2 -0.5650402 -0.5650402
3 -0.2203443 -0.2203443
4 0.4504706 0.4504706
5 0.1961838 0.1961838
6 0.2653848 0.2653848
7 -0.1371532 -0.1371532
```

6.5.5 Model Comparison

6.5.6 Threshold Invariant

 ${\tt Information}$

Standard Errors

Information saturated (h1) model

lavaan (0.6-1)	converged	normally	after	132	iterations

		Used	Total	
Number of observations		111	134	
Estimator		DWLS	Robust	
Model Fit Test Statistic	3	04.448	410.727	
Degrees of freedom		345	345	
P-value (Chi-square)		0.943	0.009	
Scaling correction factor			1.639	
Shift parameter			224.922	
for simple second-order correction	(Mplus va	riant)		
Model test baseline model:				
Minimum Function Test Statistic	186	02.907	4580.137	
Degrees of freedom		378	378	
P-value		0.000	0.000	
User model versus baseline model:				
Comparative Fit Index (CFI)		1.000	0.984	
Tucker-Lewis Index (TLI)		1.002	0.983	
Robust Comparative Fit Index (CFI)			NA	
Robust Tucker-Lewis Index (TLI)			NA	
Root Mean Square Error of Approximation	:			
RMSEA		0.000	0.042	
90 Percent Confidence Interval	0.000	0.007	0.022	0.056
P-value RMSEA <= 0.05		1.000	0.812	
Robust RMSEA			NA	
90 Percent Confidence Interval			NA	NA
Standardized Root Mean Square Residual:				
SRMR		0.089	0.089	
Parameter Estimates:				

Expected

Unstructured

 ${\tt Robust.sem}$

Latent Variables:	G: 1 77
Estimate Std.Err z-value P(> z) Std.lv HSP.rpre =~	Std.all
H R B. 1.000 1.647	0.855
Cm_B.3 (HSPL2) 0.623 0.143 4.363 0.000 1.027	0.716
CM_B.3 (HSPL3) 0.822 0.171 4.799 0.000 1.353	0.804
RP_B.3 (HSPL4) 1.034 0.266 3.884 0.000 1.702	0.862
LP_B.3 (HSPL5) 1.443 0.392 3.679 0.000 2.377	0.922
PR_B.3 (HSPL6) 1.223 0.296 4.126 0.000 2.014	0.896
WS_B.3 (HSPL7) 0.977 0.218 4.486 0.000 1.609	0.849
HSP.post =~	
Hl_R.3 1.000 1.644	0.889
Cmmn.3 (HSPL2) 0.623 0.143 4.363 0.000 1.025	0.922
CnfM.3 (HSPL3) 0.822 0.171 4.799 0.000 1.351	0.773
RghP.3 (HSPL4) 1.034 0.266 3.884 0.000 1.699	0.775
LrnP.3 (HSPL5) 1.443 0.392 3.679 0.000 2.373	0.949
PcRl.3 (HSPL6) 1.223 0.296 4.126 0.000 2.010	0.923
WrnS.3 (HSPL7) 0.977 0.218 4.486 0.000 1.606	0.991
PBA.rpre =~	
LGU_B. 1.000 1.095	0.895
PR_B.3 (PBAL2) 1.175 0.097 12.138 0.000 1.287	0.780
GAP_B. (PBAL3) 1.469 0.101 14.485 0.000 1.609	0.852
FAL_B. (PBAL4) 1.401 0.079 17.678 0.000 1.534	0.899
Fg_B.3 (PBAL5) 1.332 0.135 9.848 0.000 1.459	0.733
FH_B.3 (PBAL6) 1.147 0.078 14.719 0.000 1.256	0.799
RW_B.3 (PBAL7) 1.702 0.132 12.897 0.000 1.864	0.793
PBA.post =~	0 000
LrGU.3 1.000 1.010 PstR.3 (PBAL2) 1.175 0.097 12.138 0.000 1.187	0.802
GtAP.3 (PBAL3) 1.469 0.101 14.485 0.000 1.485	0.875 0.839
FrAL.3 (PBAL4) 1.401 0.079 17.678 0.000 1.415	0.887
Fght.3 (PBAL5) 1.332 0.135 9.848 0.000 1.346	0.845
FlnH.3 (PBAL6) 1.147 0.078 14.719 0.000 1.159	0.866
RghW.3 (PBAL7) 1.702 0.132 12.897 0.000 1.720	0.920
Nghw.0 (1 BhB1) 1.102 0.102 12.001 0.000 1.120	0.520
Covariances:	
Estimate Std.Err z-value P(> z)
HSP.rpre ~~	
HSP.post 0.105 0.286 0.368	0.713
PBA.rpre 1.118 0.272 4.105	0.000
PBA.post -0.068 0.176 -0.387	0.698
HSP.post ~~	
•	0.091
•	0.001
PBA.rpre ~~	
PBA.post 0.363 0.117 3.090	0.002

.Healthy_Rel_Before.3n ~~

	y_Rel.3n	0.816	0.431	1.891	0.059
	ate_Before.3n ~~				
	icate.3n	0.435	0.164	2.653	0.008
	Management_Before.3n ~~				
	Mngmnt.3	0.620	0.250	2.484	0.013
_	tner_Before.3n ~~	0.050	0 504	0 440	0 000
•	artnr.3n	0.059	0.504	0.118	0.906
	tner_Before.3n ~~ artnr.3n	0 677	0 676	1 001	0 217
		0.677	0.676	1.001	0.317
	tionship_Before.3n ~~	0.644	0 400	1 200	0 107
	tnshp.3n igns_Before.3n ~~	0.644	0.499	1.290	0.197
_	gSgns.3n	0.178	0.282	0.630	0.529
	rowingUp_Before.3n ~~	0.178	0.202	0.030	0.525
	wngUp.3n	0.166	0.162	1.021	0.307
	tionships_Before.3n ~~	0.100	0.102	1.021	0.507
	nshps.3n	0.763	0.220	3.473	0.001
	Parents_Before.3n ~~	0.100	0.220	0.1.0	0.001
_	Prnts.3n	0.596	0.266	2.243	0.025
•	ipsAreLike_Before.3n ~~		0.120		0.020
	psArLk.3	0.842	0.207	4.070	0.000
	efore.3n ~~				
.Fights		0.695	0.267	2.607	0.009
_	Hurt_Before.3n ~~				
.Feelin	gsHrt.3n	0.358	0.222	1.611	0.107
.Rightand	Wrong_Before.3n ~~				
.Rightn	dWrng.3n	0.931	0.385	2.418	0.016
.Conflict	Management.3n ~~				
$.\mathtt{RightP}$	artnr.3n	0.781	0.310	2.517	0.012
Std.lv	Std.all				
0.039	0.039				
0.620	0.620				
-0.041	-0.041				
0.205	0.205				
0.775	0.775				
0 000	0.000				
0.328	0.328				
0.016	0.000				
0.816	0.962				
U 45E	1 007				
0.435	1.007				
0 600	0.560				
0.620	0.560				
0.059	0.043				
0.009	0.040				

0.677	0.856
0.644	0.768
0.178	0.827
0.166	0.403
0.763	1.125
0.596	0.625
0.842	1.529
0.695	0.604
0.358	0.565
0.931	0.890
0.781	0.509

ocicepob.						
	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
HSP.rpre	0.000				0.000	0.000
HSP.post	3.759	0.697	5.396	0.000	2.287	2.287
PBA.rpre	-0.814	0.116	-7.044	0.000	-0.743	-0.743
PBA.post	0.900	0.119	7.568	0.000	0.891	0.891
.Hlthy_Rl_Bfr.3	0.000				0.000	0.000
.Commnct_Bfr.3n	0.000				0.000	0.000
.CnflctMngm_B.3	0.000				0.000	0.000
.Healthy_Rel.3n	0.000				0.000	0.000
.Communicate.3n	0.000				0.000	0.000
.CnflctMngmnt.3	0.000				0.000	0.000
.RghtPrtnr_Bf.3	0.000				0.000	0.000
.LrnPrtnr_Bfr.3	0.000				0.000	0.000
.PcRltnshp_Bf.3	0.000				0.000	0.000
.WrnngSgns_Bf.3	0.000				0.000	0.000
.RightPartnr.3n	0.000				0.000	0.000
.LearnPartnr.3n	0.000				0.000	0.000
$. {\tt PaceRltnshp.3n}$	0.000				0.000	0.000
.WarningSgns.3n	0.000				0.000	0.000
$. LrndGrwngU_B.3$	0.000				0.000	0.000
.PstRltnshp_B.3	0.000				0.000	0.000
.GtAlngPrnt_B.3	0.000				0.000	0.000
.FrndshpsAL_B.3	0.000				0.000	0.000
. LrndGrwngUp.3n	0.000				0.000	0.000
.PstRltnshps.3n	0.000				0.000	0.000

.GtAlngPrnts.3n .FrndshpsArLk.3 .Fights_Befr.3n .FlngsHrt_Bfr.3 .RghtndWrng_B.3 .Fights.3n .FeelingsHrt.3n .RightndWrng.3n	0.000 0.000 0.000 0.000 0.000 0.000 0.000				0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000
Thresholds:						
	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
H_R_B.3 (V1t1)	0.514	0.244	2.109	0.035	0.514	0.267
H_R_B.3 (V1t2)	3.532	0.598	5.905	0.000	3.532	1.833
H_R.3 1 (V1t1)	0.514	0.244	2.109	0.035	0.514	0.278
H_R.3 2 (V1t2)	3.532	0.598	5.905	0.000	3.532	1.909
C_B.3 1 (V2t1)	0.364	0.157	2.319	0.020	0.364	0.254
C_B.3 2 (V2t2)	2.326	0.323	7.212	0.000	2.326	1.623
Cmm.3 1 (V2t1)	0.364	0.157	2.319	0.020	0.364	0.327
Cmm.3 2 (V2t2)	2.326	0.323	7.212	0.000	2.326	2.092
CM_B.3 (V3t1)	0.691	0.224	3.077	0.002	0.691	0.410
CM_B.3 (V3t2)	3.245	0.428	7.580	0.000	3.245	1.929
CnM.3 1 (V3t1)	0.691	0.224	3.077	0.002	0.691	0.395
CnM.3 2 (V3t2)	3.245	0.428	7.580	0.000	3.245	1.858
RP_B.3 (V4t1)	1.233	0.341	3.619	0.000	1.233	0.625
RP_B.3 (V4t2)	4.041	0.820	4.930	0.000	4.041	2.047
RgP.3 1 (V4t1)	1.233	0.341	3.619	0.000	1.233	0.562
RgP.3 2 (V4t2)	4.041	0.820	4.930	0.000	4.041	1.842
LP_B.3 (V5t1)	1.114	0.400	2.787	0.005	1.114	0.432
LP_B.3 (V5t2)	4.760	1.125	4.231	0.000	4.760	1.846
LrP.3 1 (V5t1)	1.114	0.400	2.787	0.005	1.114	0.445
LrP.3 2 (V5t2)	4.760	1.125	4.231	0.000	4.760	1.903
PR_B.3 (V6t1)	1.259	0.349	3.608	0.000	1.259	0.560
PR_B.3 (V6t2)	4.246	0.787	5.396	0.000	4.246	1.888
PcR.3 1 (V6t1)	1.259	0.349	3.608	0.000	1.259	0.578
PcR.3 2 (V6t2)	4.246	0.787	5.396	0.000	4.246	1.949
WS_B.3 (V7t1)	0.612	0.234	2.612	0.009	0.612	0.323
WS_B.3 (V7t2)	3.339	0.615	5.430	0.000	3.339	1.763
WrS.3 1 (V7t1)	0.612	0.234	2.612	0.009	0.612	0.377
WrS.3 2 (V7t2)	3.339	0.615	5.430	0.000	3.339	2.060
LGU_B.3 (V8t1)	-0.783	0.102	-7.701	0.000	-0.783	-0.640
LGU_B.3 (V8t2)	0.713	0.093	7.634	0.000	0.713	0.583
LGU.3 1 (V8t1)	-0.783	0.102	-7.701	0.000	-0.783	-0.622
LGU.3 2 (V8t2)	0.713	0.093	7.634	0.000	0.713	0.566
PR_B.3 (V9t1)	-0.955	0.146	-6.559	0.000	-0.955	-0.579
PR_B.3 (V9t2)	0.596	0.103	5.792	0.000	0.596	0.361
PsR.3 1 (V9t1)	-0.955	0.146	-6.559	0.000	-0.955	-0.704
PsR.3 2 (V9t2)	0.596	0.103	5.792	0.000	0.596	0.439
GAP_B.3 (V101)	-1.204	0.126	-9.566	0.000	-1.204	-0.637

GAP_B.3 (V102)	0.645	0.123	5.243	0.000	0.645	0.341
GAP.3 1 (V101)	-1.204	0.126	-9.566	0.000	-1.204	-0.680
GAP.3 2 (V102)	0.645	0.123	5.243	0.000	0.645	0.364
FAL_B.3 (V111)	-1.140	0.120	-9.480	0.000	-1.140	-0.668
FAL_B.3 (V112)	0.626	0.107	5.866	0.000	0.626	0.367
FAL.3 1 (V111)	-1.140	0.120	-9.480	0.000	-1.140	-0.714
FAL.3 2 (V112)	0.626	0.107	5.866	0.000	0.626	0.392
F_B.3 1 (V121)	-1.176	0.154	-7.634	0.000	-1.176	-0.591
F_B.3 2 (V122)	0.665	0.146	4.545	0.000	0.665	0.334
Fgh.3 1 (V121)	-1.176	0.154	-7.634	0.000	-1.176	-0.738
Fgh.3 2 (V122)	0.665	0.146	4.545	0.000	0.665	0.418
FH_B.3 (V131)	-1.328	0.091	-14.615	0.000	-1.328	-0.845
FH_B.3 (V132)	0.488	0.127	3.855	0.000	0.488	0.311
FlH.3 1 (V131)	-1.328	0.091	-14.615	0.000	-1.328	-0.992
FlH.3 2 (V132)	0.488	0.127	3.855	0.000	0.488	0.365
RW_B.3 (V141)	-2.053	0.170	-12.104	0.000	-2.053	-0.873
RW_B.3 (V142)	0.531	0.136	3.898	0.000	0.531	0.226
RgW.3 1 (V141)	-2.053	0.170	-12.104	0.000	-2.053	-1.099
RgW.3 2 (V142)	0.531	0.136	3.898	0.000	0.531	0.284
G						
Variances:						
	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
HSP.rpre	2.711	0.977	2.774	0.006	1.000	1.000
HSP.post	2.702	1.257	2.150	0.032	1.000	1.000
PBA.rpre	1.199	0.200	5.996	0.000	1.000	1.000
PBA.post	1.021	0.204	5.003	0.000	1.000	1.000
.Hlthy_Rl_Bfr.3	1.000				1.000	0.269
.Commnct_Bfr.3n	1.000				1.000	0.487
.CnflctMngm_B.3	1.000				1.000	0.353
.RghtPrtnr_Bf.3	1.000				1.000	0.257
.LrnPrtnr_Bfr.3	1.000				1.000	0.150
.PcRltnshp_Bf.3	1.000				1.000	0.198
.WrnngSgns_Bf.3	1.000				1.000	0.279
.LrndGrwngU_B.3	0.298	0.093	3.214	0.001	0.298	0.199
.PstRltnshp_B.3	1.065	0.196	5.431	0.000	1.065	0.391
.GtAlngPrnt_B.3	0.981	0.205	4.776	0.000	0.981	0.275
.FrndshpsAL_B.3	0.556	0.144	3.851	0.000	0.556	0.191
.Fights_Befr.3n	1.833	0.245	7.494	0.000	1.833	0.463
.FlngsHrt_Bfr.3	0.893	0.153	5.830	0.000	0.893	0.362
.RghtndWrng_B.3	2.053	0.253	8.113	0.000	2.053	0.371
.Healthy_Rel.3n	0.719	0.332	2.167	0.030	0.719	0.210
.Communicate.3n	0.186	0.080	2.337	0.019	0.186	0.150
.CnflctMngmnt.3	1.226	0.374	3.276	0.001	1.226	0.402
.RightPartnr.3n	1.924	0.834	2.307	0.021	1.924	0.400
.LearnPartnr.3n	0.625	0.384	1.628	0.104	0.625	0.100
.PaceRltnshp.3n	0.703	0.301	2.339	0.019	0.703	0.148
.WarningSgns.3n	0.046	0.113	0.411	0.681	0.046	0.018
.LrndGrwngUp.3n	0.567	0.155	3.647	0.000	0.567	0.357
3.1						

.PstRltnshps.3n .GtAlngPrnts.3n .FrndshpsArLk.3 .Fights.3n .FeelingsHrt.3n .RightndWrng.3n	0.433 0.927 0.545 0.724 0.449 0.533	0.097 0.191 0.082 0.205 0.144 0.165	4.461 4.839 6.673 3.533 3.107 3.228	0.000 0.000 0.000 0.000 0.002 0.001	0.433 0.927 0.545 0.724 0.449 0.533	0.235 0.296 0.214 0.285 0.251 0.153
Scales y*:						
V	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
Hlthy_Rl_Bfr.3	0.519				0.519	1.000
Commnct_Bfr.3n	0.698				0.698	1.000
CnflctMngm_B.3	0.594				0.594	1.000
RghtPrtnr_Bf.3	0.507				0.507	1.000
LrnPrtnr_Bfr.3	0.388				0.388	1.000
PcRltnshp_Bf.3	0.445				0.445	1.000
WrnngSgns_Bf.3	0.528				0.528	1.000
Healthy_Rel.3n	0.541				0.541	1.000
Communicate.3n	0.899				0.899	1.000
CnflctMngmnt.3	0.573				0.573	1.000
RightPartnr.3n	0.456				0.456	1.000
LearnPartnr.3n	0.400				0.400	1.000
PaceRltnshp.3n	0.459				0.459	1.000
WarningSgns.3n	0.617				0.617	1.000
LrndGrwngU_B.3	0.817				0.817	1.000
PstRltnshp_B.3	0.606				0.606	1.000
<pre>GtAlngPrnt_B.3</pre>	0.529				0.529	1.000
FrndshpsAL_B.3	0.586				0.586	1.000
Fights_Befr.3n	0.502				0.502	1.000
FlngsHrt_Bfr.3	0.636				0.636	1.000
RghtndWrng_B.3	0.425				0.425	1.000
LrndGrwngUp.3n	0.794				0.794	1.000
PstRltnshps.3n	0.737				0.737	1.000
GtAlngPrnts.3n	0.565				0.565	1.000
FrndshpsArLk.3	0.626				0.626	1.000
Fights.3n	0.628				0.628	1.000
FeelingsHrt.3n	0.747				0.747	1.000
RightndWrng.3n	0.535				0.535	1.000

6.5.7 Modification Indices

```
variables involved are: Communicate_Before.3n Communicate.3n
Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star
                  variables involved are: PastRelationships Before.3n PastRelationships.3n
Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star
                 variables involved are: FriendshipsAreLike Before.3n FriendshipsAreLike.3n
       lhs op
                                                            sepc.lv
                                          mi
                                                     ерс
1 PBA.rpre =~
               PastRelationships.3n 17.73901 -0.2790365 -0.3055786
2 HSP.post =~ FriendshipsAreLike.3n 16.56572 -0.3119690 -0.5128152
               PastRelationships.3n 15.69355 -0.1680133 -0.2766526
3 HSP.rpre =~
4 PBA.rpre =~ Healthy_Rel_Before.3n 14.76748 0.4974304 0.5447462
                    FeelingsHurt.3n 13.73321 0.2517766 0.4138710
5 HSP.post =~
6 PBA.rpre =~ RightPartner_Before.3n 12.31770 -0.5573323 -0.6103460
              sepc.nox
    sepc.all
1 -0.2251403 -0.2251403
2 -0.3212393 -0.3212393
3 -0.2038285 -0.2038285
4 0.2827675 0.2827675
5 0.3092523 0.3092523
6 -0.3091786 -0.3091786
6.5.8
      Model Comparison
lavaan::anova(Fit.Rcomb.model.c2.load, Fit.Rcomb.model.c2.thresh)
```

Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star

```
Scaled Chi Square Difference Test (method = "satorra.2000")
```

```
Df AIC BIC Chisq Chisq diff Df diff Pr(>Chisq)
Fit.Rcomb.model.c2.load
                                     288.33
Fit.Rcomb.model.c2.thresh 345
                                     304.45
                                                24.744
                                                           13
                                                                 0.02494
Fit.Rcomb.model.c2.load
Fit.Rcomb.model.c2.thresh *
Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

6.5.9 Threshold Invariant 2

lavaan	(0.6-1)	converged	normally	after	130	iterations

		Used	Total	
Number of observations		111	134	
Estimator		DWLS	Robust	
Model Fit Test Statistic	3	00.251		
Degrees of freedom		344	344	
P-value (Chi-square)		0.957	0.010	
Scaling correction factor			1.638	
Shift parameter	(M]		224.181	
for simple second-order correction	(Mpius va	riant)		
Model test baseline model:				
Minimum Function Test Statistic	186	02.907	4580.137	
Degrees of freedom		378	378	
P-value		0.000	0.000	
User model versus baseline model:				
Componentias Eit Indon (CEI)		1.000	0.985	
Comparative Fit Index (CFI) Tucker-Lewis Index (TLI)		1.000		
IUCKEI LEWIS INGEX (ILI)		1.005	0.903	
Robust Comparative Fit Index (CFI)			NA	
Robust Tucker-Lewis Index (TLI)			NA	
Root Mean Square Error of Approximation	ı:			
RMSEA		0.000	0.041	
90 Percent Confidence Interval	0.000	0.000		0.056
P-value RMSEA <= 0.05		1.000	0.829	
Robust RMSEA			NA	
90 Percent Confidence Interval			NA NA	NA
90 refeent confidence interval			NA	IVA
Standardized Root Mean Square Residual:	;			
SRMR		0.089	0.089	
Parameter Estimates:				
Information	₽÷-	nected		
IIII OI III de 1011	EX.	pected		

Unstructured

 ${\tt Robust.sem}$

Information saturated (h1) model

Standard Errors

Latent Variables:	Eatimata	C+d Emm	=]	D(> -)	C+4 1	C+4 -11
HSP.rpre =~	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
H_R_B.	1.000				1.647	0.855
Cm_B.3 (HSPL2)	0.623	0.143	4.361	0.000	1.027	0.716
CM_B.3 (HSPL3)	0.822	0.171	4.798	0.000	1.353	0.804
RP_B.3 (HSPL4)	1.034	0.266	3.885	0.000	1.702	0.862
LP_B.3 (HSPL5)	1.443	0.393	3.677	0.000	2.377	0.922
PR_B.3 (HSPL6)	1.223	0.297	4.124	0.000	2.014	0.896
WS_B.3 (HSPL7)	0.977	0.218	4.485	0.000	1.609	0.849
HSP.post =~	0.511	0.210	1.100	0.000	1.005	0.013
H1_R.3	1.000				1.644	0.889
Cmmn.3 (HSPL2)	0.623	0.143	4.361	0.000	1.025	0.922
CnfM.3 (HSPL3)	0.822	0.171	4.798	0.000	1.351	0.773
RghP.3 (HSPL4)	1.034	0.266	3.885	0.000	1.699	0.775
LrnP.3 (HSPL5)	1.443	0.393	3.677	0.000	2.373	0.949
PcRl.3 (HSPL6)	1.223	0.297	4.124	0.000	2.010	0.923
WrnS.3 (HSPL7)	0.977	0.218	4.485	0.000	1.606	0.991
PBA.rpre =~		0.220	27.200		2.000	0.002
LGU_B.	1.000				1.161	0.893
PR_B.3 (PBAL2)	1.112	0.098	11.394	0.000	1.291	0.778
GAP_B. (PBAL3)	1.663	0.131	12.700	0.000	1.932	0.862
FAL_B. (PBAL4)	1.329	0.083	16.101	0.000	1.544	0.896
Fg_B.3 (PBAL5)	1.264	0.133	9.487	0.000	1.469	0.731
FH_B.3 (PBAL6)	1.099	0.081	13.516	0.000	1.277	0.797
RW_B.3 (PBAL7)	1.447	0.119	12.139	0.000	1.681	0.791
PBA.post =~						
LrGU.3	1.000				1.133	0.801
PstR.3 (PBAL2)	1.112	0.098	11.394	0.000	1.260	0.875
GtAP.3 (PBAL3)	1.663	0.131	12.700	0.000	1.885	0.842
FrAL.3 (PBAL4)	1.329	0.083	16.101	0.000	1.506	0.886
Fght.3 (PBAL5)	1.264	0.133	9.487	0.000	1.433	0.845
FlnH.3 (PBAL6)	1.099	0.081	13.516	0.000	1.245	0.866
RghW.3 (PBAL7)	1.447	0.119	12.139	0.000	1.640	0.920
Covariances:		Fa+	imate St	d.Err z-	value P((> z)
HSP.rpre ~~		ESU	imate 50	a.EII Z	value 1 (.~ 4)
HSP.post			0.105	0.286	0.368	0.713
PBA.rpre				0.289	4.107	0.000
PBA.post		_			-0.388	0.698
HSP.post ~~				• ·		
PBA.rpre			0.392	0.231	1.701	0.089
PBA.post				0.436	3.311	0.001
PBA.rpre ~~			-	- -	- -	-
PBA.post			0.431	0.136	3.173	0.002
Haalthy Dal Dafa	no 2n				0	

.Healthy_Rel_Before.3n ~~

∐ool+h	y_Rel.3n	0.816	0.431	1.891	0.059
•	y_ner.3n ate_Before.3n ~~	0.810	0.431	1.031	0.059
	icate.3n	0.435	0.164	2.653	0.008
.Conflict	Management_Before.3n ~	~~			
	Mngmnt.3	0.620	0.250	2.484	0.013
_	tner_Before.3n ~~				
_	artnr.3n tner_Before.3n ~~	0.059	0.504	0.118	0.906
	artnr.3n	0.677	0.676	1.001	0.317
	tionship_Before.3n ~~		0.0.0		0.02.
.PaceRl	tnshp.3n	0.644	0.499	1.290	0.197
_	igns_Before.3n ~~				
	gSgns.3n	0.178	0.282	0.630	0.529
	rowingUp_Before.3n ~~ wngUp.3n	0.199	0.194	1.026	0.305
	tionships_Before.3n ~~		0.101	1.020	0.000
	nshps.3n	0.817	0.230	3.549	0.000
_	Parents_Before.3n ~~				
•	Prnts.3n	0.875	0.385	2.273	0.023
	ipsAreLike_Before.3n ^ psArLk.3	0.909	0.214	4.256	0.000
-	efore.3n ~~	0.000	0.211	1.200	0.000
.Fights		0.751	0.284	2.645	0.008
_	Hurt_Before.3n ~~				
7	gsHrt.3n	0.393	0.242	1.623	0.105
-	Wrong_Before.3n ~~ dWrng.3n	0.805	0.333	2.415	0.016
_	Management.3n ~~	0.803	0.555	2.410	0.010
	artnr.3n	0.781	0.310	2.518	0.012
Std.lv	Std.all				
0.039	0.039				
0.620 -0.041	0.620 -0.041				
-0.041	-0.041				
0.206	0.206				
0.775	0.775				
0 200	0.200				
0.328	0.328				
0.816	0.962				
0.435	1.008				
0.620	0.560				
0.020	0.000				
0.059	0.043				

0.677	0.856
0.644	0.768
0.178	0.827
0.199	0.402
0.817	1.122
0.875	0.639
0.909	1.507
0.751	0.603
0.393	0.565
0.805	0.888
0.781	0.509

ccrccpub.						
	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
HSP.rpre	0.000				0.000	0.000
HSP.post	3.759	0.697	5.395	0.000	2.287	2.287
PBA.rpre	-0.841	0.124	-6.781	0.000	-0.724	-0.724
PBA.post	1.090	0.130	8.368	0.000	0.962	0.962
.Hlthy_Rl_Bfr.3	0.000				0.000	0.000
$. {\tt Commnct_Bfr.3n}$	0.000				0.000	0.000
.CnflctMngm_B.3	0.000				0.000	0.000
.Healthy_Rel.3n	0.000				0.000	0.000
.Communicate.3n	0.000				0.000	0.000
.CnflctMngmnt.3	0.000				0.000	0.000
.RghtPrtnr_Bf.3	0.000				0.000	0.000
.LrnPrtnr_Bfr.3	0.000				0.000	0.000
.PcRltnshp_Bf.3	0.000				0.000	0.000
.WrnngSgns_Bf.3	0.000				0.000	0.000
$.\mathtt{RightPartnr.3n}$	0.000				0.000	0.000
$. {\tt LearnPartnr.3n}$	0.000				0.000	0.000
$. {\tt PaceRltnshp.3n}$	0.000				0.000	0.000
.WarningSgns.3n	0.000				0.000	0.000
.LrndGrwngU_B.3	0.000				0.000	0.000
.PstRltnshp_B.3	0.000				0.000	0.000
.GtAlngPrnt_B.3	0.000				0.000	0.000
.FrndshpsAL_B.3	0.000				0.000	0.000
$. {\tt LrndGrwngUp.3n}$	0.000				0.000	0.000
.PstRltnshps.3n	0.000				0.000	0.000

.GtAlngPrnts.3n .FrndshpsArLk.3 .Fights_Befr.3n .FlngsHrt_Bfr.3 .RghtndWrng_B.3 .Fights.3n .FeelingsHrt.3n .RightndWrng.3n	0.000 0.000 0.000 0.000 0.000 0.000 0.000				0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000
Thresholds:						
	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
H_R_B.3 (V1t1)	0.514	0.244	2.109	0.035	0.514	0.267
H_R_B.3 (V1t2)	3.532	0.598	5.904	0.000	3.532	1.833
H_R.3 1 (V1t1)	0.514	0.244	2.109	0.035	0.514	0.278
H_R.3 2 (V1t2)	3.532	0.598	5.904	0.000	3.532	1.909
C_B.3 1 (V2t1)	0.364	0.157	2.320	0.020	0.364	0.254
C_B.3 2 (V2t2)	2.326	0.323	7.211	0.000	2.326	1.623
Cmm.3 1 (V2t1)	0.364	0.157	2.320	0.020	0.364	0.327
Cmm.3 2 (V2t2)	2.326	0.323	7.211	0.000	2.326	2.092
CM_B.3 (V3t1)	0.691	0.224	3.077	0.002	0.691	0.410
CM_B.3 (V3t2)	3.245	0.428	7.580	0.000	3.245	1.929
CnM.3 1 (V3t1)	0.691	0.224	3.077	0.002	0.691	0.395
CnM.3 2 (V3t2)	3.245	0.428	7.580	0.000	3.245	1.858
RP_B.3 (V4t1)	1.233	0.341	3.619	0.000	1.233	0.625
RP_B.3 (V4t2)	4.041	0.819	4.932	0.000	4.041	2.047
RgP.3 1 (V4t1)	1.233	0.341	3.619	0.000	1.233	0.562
RgP.3 2 (V4t2)	4.041	0.819	4.932	0.000	4.041	1.842
LP_B.3 (V5t1)	1.114	0.400	2.787	0.005	1.114	0.432
LP_B.3 (V5t2)	4.761	1.126	4.229	0.000	4.761	1.846
LrP.3 1 (V5t1)	1.114	0.400	2.787	0.005	1.114	0.445
LrP.3 2 (V5t2)	4.761	1.126	4.229	0.000	4.761	1.903
PR_B.3 (V6t1)	1.259	0.349	3.608	0.000	1.259	0.560
PR_B.3 (V6t2)	4.245	0.787	5.395	0.000	4.245	1.888
PcR.3 1 (V6t1)	1.259	0.349	3.608	0.000	1.259	0.578
PcR.3 2 (V6t2)	4.245	0.787	5.395	0.000	4.245	1.949
WS_B.3 (V7t1)	0.612	0.234	2.613	0.009	0.612	0.323
WS_B.3 (V7t2)	3.339	0.615	5.430	0.000	3.339	1.763
WrS.3 1 (V7t1)	0.612	0.234		0.009	0.612	0.378
WrS.3 2 (V7t2)	3.339	0.615	5.430	0.000	3.339	2.060
LGU_B.3 (V8t1)	-0.802	0.110	-7.289	0.000	-0.802	-0.617
LGU_B.3 (V8t2)	0.843	0.104	8.102	0.000	0.843	0.648
LGU.3 1 (V8t1)	-0.802	0.110	-7.289	0.000	-0.802	-0.567
LGU.3 2 (V8t2)	0.843	0.104	8.102	0.000	0.843	0.596
PR_B.3 (V9t1)	-0.928	0.150	-6.201	0.000	-0.928	-0.559
PR_B.3 (V9t2)	0.694	0.108	6.421	0.000	0.694	0.418
PsR.3 1 (V9t1)	-0.928	0.150	-6.201	0.000	-0.928	-0.644
PsR.3 2 (V9t2)	0.694	0.108	6.421	0.000	0.694	0.482
GAP_B.3 (V101)	-1.399	0.154	-9.080	0.000	-1.399	-0.625

GAP_B.3 (V10T)	0.360	0.225	1.600	0.110	0.360	0.161
GAP.3 1 (V101)	-1.399	0.154	-9.080	0.000	-1.399	-0.625
GAP.3 2 (V102)	1.277	0.213	6.003	0.000	1.277	0.570
FAL_B.3 (V111)	-1.114	0.126	-8.843	0.000	-1.114	-0.647
FAL_B.3 (V112)	0.720	0.112	6.440	0.000	0.720	0.418
FAL.3 1 (V111)	-1.114	0.126	-8.843	0.000	-1.114	-0.655
FAL.3 2 (V112)	0.720	0.112	6.440	0.000	0.720	0.424
F_B.3 1 (V121)	-1.157	0.158	-7.342	0.000	-1.157	-0.576
F_B.3 2 (V122)	0.773	0.156	4.949	0.000	0.773	0.385
Fgh.3 1 (V121)	-1.157	0.158	-7.342	0.000	-1.157	-0.683
Fgh.3 2 (V122)	0.773	0.156	4.949	0.000	0.773	0.456
FH_B.3 (V131)	-1.329	0.097	-13.657	0.000	-1.329	-0.830
FH_B.3 (V132)	0.583	0.133	4.388	0.000	0.583	0.364
FlH.3 1 (V131)	-1.329	0.097	-13.657	0.000	-1.329	-0.924
F1H.3 2 (V132)	0.583	0.133	4.388	0.000	0.583	0.405
RW_B.3 (V141)	-1.835	0.151	-12.139	0.000	-1.835	-0.864
RW_B.3 (V142)	0.583	0.132	4.424	0.000	0.583	0.274
RgW.3 1 (V141)	-1.835	0.151	-12.139	0.000	-1.835	-1.030
RgW.3 2 (V142)	0.583	0.132	4.424	0.000	0.583	0.327
Variances:						
, 42 2 422 6 5 7	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
HSP.rpre	2.712	0.978	2.774	0.006	1.000	1.000
HSP.post	2.702	1.257	2.149	0.032	1.000	1.000
PBA.rpre	1.349	0.234	5.772	0.002	1.000	1.000
PBA.post	1.284	0.240	5.348	0.000	1.000	1.000
.Hlthy_Rl_Bfr.3	1.000	0.240	0.040	0.000	1.000	0.269
.Commnct_Bfr.3n	1.000				1.000	0.487
.CnflctMngm_B.3	1.000				1.000	0.467
•						
.RghtPrtnr_Bf.3	1.000				1.000	0.257
.LrnPrtnr_Bfr.3	1.000					0.150
.PcRltnshp_Bf.3	1.000				1.000	0.198
.WrnngSgns_Bf.3	1.000	0 405	0.050	0 001	1.000	0.279
.LrndGrwngU_B.3	0.343	0.105	3.258	0.001	0.343	0.202
.PstRltnshp_B.3	1.085	0.198	5.468	0.000	1.085	0.394
.GtAlngPrnt_B.3	1.286	0.329	3.905	0.000	1.286	0.256
.FrndshpsAL_B.3	0.583	0.146	3.984	0.000	0.583	0.197
.Fights_Befr.3n	1.885	0.249	7.566	0.000	1.885	0.466
.FlngsHrt_Bfr.3	0.933	0.154	6.061	0.000	0.933	0.364
.RghtndWrng_B.3	1.688	0.226	7.458	0.000	1.688	0.374
.Healthy_Rel.3n	0.719	0.332	2.167	0.030	0.719	0.210
.Communicate.3n	0.186	0.080	2.336	0.019	0.186	0.150
.CnflctMngmnt.3	1.226	0.374	3.275	0.001	1.226	0.402
.RightPartnr.3n	1.924	0.834	2.308	0.021	1.924	0.400
.LearnPartnr.3n	0.626	0.384	1.628	0.104	0.626	0.100
.PaceRltnshp $.$ 3n	0.703	0.301	2.339	0.019	0.703	0.148
.WarningSgns.3n	0.046	0.113	0.410	0.682	0.046	0.018
.LrndGrwngUp.3n	0.715	0.193	3.696	0.000	0.715	0.358

.PstRltnshps.3n .GtAlngPrnts.3n .FrndshpsArLk.3 .Fights.3n .FeelingsHrt.3n .RightndWrng.3n	0.488 1.458 0.623 0.823 0.519 0.486	0.108 0.270 0.092 0.227 0.165 0.148	4.513 5.408 6.761 3.623 3.151 3.293	0.000 0.000 0.000 0.000 0.002 0.001	0.488 1.458 0.623 0.823 0.519 0.486	0.235 0.291 0.216 0.286 0.251 0.153
Scales y*:						
	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
Hlthy_Rl_Bfr.3	0.519				0.519	1.000
Commnct_Bfr.3n	0.698				0.698	1.000
CnflctMngm_B.3	0.594				0.594	1.000
RghtPrtnr_Bf.3	0.507				0.507	1.000
LrnPrtnr_Bfr.3	0.388				0.388	1.000
PcRltnshp_Bf.3	0.445				0.445	1.000
WrnngSgns_Bf.3	0.528				0.528	1.000
Healthy_Rel.3n	0.541				0.541	1.000
Communicate.3n	0.899				0.899	1.000
CnflctMngmnt.3	0.573				0.573	1.000
RightPartnr.3n	0.456				0.456	1.000
LearnPartnr.3n	0.400				0.400	1.000
PaceRltnshp.3n	0.459				0.459	1.000
WarningSgns.3n	0.617				0.617	1.000
LrndGrwngU_B.3	0.769				0.769	1.000
PstRltnshp_B.3	0.603				0.603	1.000
<pre>GtAlngPrnt_B.3</pre>	0.446				0.446	1.000
FrndshpsAL_B.3	0.581				0.581	1.000
Fights_Befr.3n	0.497				0.497	1.000
FlngsHrt_Bfr.3	0.625				0.625	1.000
RghtndWrng_B.3	0.471				0.471	1.000
${\tt LrndGrwngUp.3n}$	0.707				0.707	1.000
PstRltnshps.3n	0.694				0.694	1.000
GtAlngPrnts.3n	0.447				0.447	1.000
FrndshpsArLk.3	0.588				0.588	1.000
Fights.3n	0.590				0.590	1.000
FeelingsHrt.3n	0.695				0.695	1.000
RightndWrng.3n	0.561				0.561	1.000

6.5.10 Modification Indices

```
Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star
                  variables involved are: PastRelationships Before.3n PastRelationships.3n
Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star
                  variables involved are: FriendshipsAreLike Before.3n FriendshipsAreLike.3n
       lhs op
                                                            sepc.lv
                                          mi
                                                     ерс
1 HSP.post =~ FriendshipsAreLike.3n 18.97753 -0.3556026 -0.5845806
2 PBA.rpre =~
               PastRelationships.3n 17.15198 -0.2744086 -0.3187188
3 HSP.rpre =~
               PastRelationships.3n 15.69151 -0.1782886 -0.2935897
4 PBA.rpre =~ Healthy_Rel_Before.3n 14.74573 0.4685741 0.5442371
5 PBA.rpre =~ RightPartner_Before.3n 12.37233 -0.5267097 -0.6117601
6 HSP.post =~
                     FeelingsHurt.3n 12.17791 0.2540983 0.4177162
   sepc.all
              sepc.nox
1 -0.3437476 -0.3437476
2 -0.2212281 -0.2212281
3 -0.2037856 -0.2037856
4 0.2824908 0.2824908
5 -0.3098868 -0.3098868
6 0.2903138 0.2903138
```

Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: start variables involved are: Communicate_Before.3n Communicate.3n

6.5.11 Model Comparison

```
lavaan::anova(Fit.Rcomb.model.c2.load, Fit.Rcomb.model.c2.thresh2)

Scaled Chi Square Difference Test (method = "satorra.2000")

Df AIC BIC Chisq Chisq diff Df diff
Fit.Rcomb.model.c2.load 332 288.33

Fit.Rcomb.model.c2.thresh2 344 300.25 18.52 12

Pr(>Chisq)

Fit.Rcomb.model.c2.load
Fit.Rcomb.model.c2.thresh2 0.1008
```

6.5.12 Unique Invariant

Standard Errors

lavaan (0.6 - 1)	converged	normally	after	140	iterations
----------	----------	-----------	----------	-------	-----	------------

		Used	Total	
Number of observations		111	134	
Number of observations		111	104	
Estimator		DWLS	Robust	
Model Fit Test Statistic	3	75.419		
Degrees of freedom		364	364	
P-value (Chi-square)		0.329	0.000	
Scaling correction factor			1.690	
Shift parameter			238.395	
for simple second-order correction	(Mplus va	riant)		
Model test baseline model:				
Minimum Function Test Statistic	186	02.907	4580.137	
Degrees of freedom		378	378	
P-value		0.000	0.000	
User model versus baseline model:				
Comparative Fit Index (CFI)		0.999	0.977	
Tucker-Lewis Index (TLI)		0.999	0.976	
Robust Comparative Fit Index (CFI)			NA	
Robust Tucker-Lewis Index (TLI)			NA	
Root Mean Square Error of Approximation	:			
RMSEA		0.017	0.049	
90 Percent Confidence Interval	0.000	0.039	0.034	0.062
P-value RMSEA <= 0.05		0.997	0.532	
Robust RMSEA			NA	
90 Percent Confidence Interval			NA	NA
Standardized Root Mean Square Residual:				
SRMR		0.094	0.094	
Parameter Estimates:				
Information	F.x	pected		
Information saturated (h1) model	Unstru	_		

Robust.sem

Latent Variables:	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
HSP.rpre =~	LSCIMACE	Dud.LII	Z varue	1 (> 2)	DUC.IV	bua.aii
H_R_B.	1.000				1.658	0.856
Cm_B.3 (HSPL2		0.166	5.701	0.000	1.570	0.843
CM_B.3 (HSPL3		0.110	6.433	0.000		0.760
RP_B.3 (HSPL4		0.126	6.176	0.000	1.291	0.791
LP_B.3 (HSPL5	1.598	0.311	5.134	0.000	2.649	0.936
PR_B.3 (HSPL6) 1.310	0.230	5.701	0.000	2.172	0.908
WS_B.3 (HSPL7	1.767	0.449	3.936	0.000	2.929	0.946
HSP.post =~						
H1_R.3	1.000				1.896	0.885
Cmmn.3 (HSPL2	0.947	0.166	5.701	0.000	1.796	0.874
CnfM.3 (HSPL3	0.705	0.110	6.433	0.000	1.338	0.801
RghP.3 (HSPL4	0.779	0.126	6.176	0.000	1.477	0.828
LrnP.3 (HSPL5	1.598	0.311	5.134	0.000	3.030	0.950
PcR1.3 (HSPL6	1.310	0.230	5.701	0.000	2.485	0.928
WrnS.3 (HSPL7	1.767	0.449	3.936	0.000	3.351	0.958
PBA.rpre =~						
LGU_B.	1.000				1.469	0.827
PR_B.3 (PBAL2		0.117	8.064	0.000	1.385	0.811
GAP_B. (PBAL3		0.231	5.072	0.000	1.724	0.865
FAL_B. (PBAL4		0.169	7.367	0.000	1.832	0.878
Fg_B.3 (PBAL5		0.136	6.131	0.000	1.221	0.774
FH_B.3 (PBAL6		0.143	6.585	0.000	1.380	0.810
RW_B.3 (PBAL7) 1.078	0.153	7.044	0.000	1.583	0.845
PBA.post =~						
LrGU.3	1.000				1.734	0.866
PstR.3 (PBAL2		0.117	8.064	0.000	1.635	0.853
GtAP.3 (PBAL3		0.231	5.072	0.000	2.036	0.838
FrAL.3 (PBAL4		0.169	7.367	0.000	2.162	0.908
Fght.3 (PBAL5		0.136	6.131	0.000	1.441	0.822
FlnH.3 (PBAL6		0.143	6.585	0.000	1.629	0.852
RghW.3 (PBAL7) 1.078	0.153	7.044	0.000	1.869	0.882
Covariances:						
		Est	imate St	d.Err z-	-value P((> z)
HSP.rpre ~~						
${ t HSP.post}$				0.330	0.360	0.719
PBA.rpre			1.457	0.392	3.718	0.000
PBA.post		-	0.107	0.292	-0.366	0.714
HSP.post ~~						
PBA.rpre			0.567	0.345	1.643	0.100
PBA.post			2.574	0.782	3.293	0.001
PBA.rpre ~~						
PBA.post	O-		0.825	0.354	2.333	0.020

.Healthy_Rel_Before.3n ~~

.Healthy_	Rel.3n	0.954	0.419	2.277	0.023
	e_Before.3n ~~				
.Communic		1.035	0.339	3.056	0.002
	nagement_Before.3n ~~				
.CnflctMn	_	0.545	0.233	2.341	0.019
-	ner_Before.3n ~~	0.044	0.340	0.128	0.898
.RightPar	ner_Before.3n ~~	0.044	0.340	0.120	0.090
.LearnPar	_	0.952	0.855	1.113	0.266
	onship_Before.3n ~~	0.002	0.000	1.110	0.200
.PaceRltn		0.845	0.631	1.339	0.181
	gns_Before.3n ~~				
.WarningS		0.611	0.989	0.618	0.537
.LearnedGro	wingUp_Before.3n ~~				
.LrndGrwn	ngUp.3n	0.394	0.398	0.990	0.322
	onships_Before.3n ~~				
.PstRltns	_	1.115	0.391	2.852	0.004
_	rents_Before.3n ~~				
.GtAlngPr		0.860	0.503	1.708	0.088
.Friendships	osAreLike_Before.3n ~~	1.554	0.430	3.616	0.000
.Fights_Bef		1.004	0.430	3.010	0.000
.Fights.3		0.600	0.247	2.429	0.015
•	rt_Before.3n ~~	0.000	0.21	2.120	0.010
.Feelings		0.565	0.376	1.502	0.133
_	cong_Before.3n ~~				
.RightndW	•	0.833	0.400	2.079	0.038
.ConflictMa	anagement.3n ~~				
.RightPar	rtnr.3n	0.417	0.151	2.759	0.006
Std.lv S	Std.all				
0.030	0.020				
0.038 0.598	0.038 0.598				
-0.037	-0.037				
0.037	0.007				
0.203	0.203				
0.783	0.783				
0.324	0.324				
0.954	0.954				
1.035	1.035				
0 5/5	0 545				
0.545	0.545				
0.044	0.044				
0.011	0.011				

0.952	0.952
0.845	0.845
0.611	0.611
0.394	0.394
1.115	1.115
0.860	0.650
1.554	1.554
0.600	0.600
0.565	0.565
0.833	0.833
0.417	0.417

_	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
HSP.rpre	0.000				0.000	0.000
HSP.post	3.971	0.556	7.139	0.000	2.094	2.094
PBA.rpre	-1.083	0.188	-5.772	0.000	-0.737	-0.737
PBA.post	1.672	0.250	6.682	0.000	0.964	0.964
.Hlthy_Rl_Bfr.3	0.000				0.000	0.000
$. {\tt Commnct_Bfr.3n}$	0.000				0.000	0.000
$.CnflctMngm_B.3$	0.000				0.000	0.000
.Healthy_Rel.3n	0.000				0.000	0.000
.Communicate.3n	0.000				0.000	0.000
$. {\tt CnflctMngmnt.3}$	0.000				0.000	0.000
.RghtPrtnr_Bf.3	0.000				0.000	0.000
.LrnPrtnr_Bfr.3	0.000				0.000	0.000
.PcRltnshp_Bf.3	0.000				0.000	0.000
.WrnngSgns_Bf.3	0.000				0.000	0.000
$.\mathtt{RightPartnr.3n}$	0.000				0.000	0.000
$. {\tt LearnPartnr.3n}$	0.000				0.000	0.000
.PaceRltnshp.3n	0.000				0.000	0.000
.WarningSgns.3n	0.000				0.000	0.000
.LrndGrwngU_B.3	0.000				0.000	0.000
.PstRltnshp_B.3	0.000				0.000	0.000
.GtAlngPrnt_B.3	0.000				0.000	0.000
.FrndshpsAL_B.3	0.000				0.000	0.000
$. {\tt LrndGrwngUp.3n}$	0.000				0.000	0.000
.PstRltnshps.3n	0.000				0.000	0.000

.GtAlngPrnts.3n .FrndshpsArLk.3 .Fights_Befr.3n .FlngsHrt_Bfr.3 .RghtndWrng_B.3 .Fights.3n .FeelingsHrt.3n .RightndWrng.3n	0.000 0.000 0.000 0.000 0.000 0.000 0.000				0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000
Thresholds:						
	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
H_R_B.3 (V1t1)	0.475	0.240	1.977	0.048	0.475	0.245
H_R_B.3 (V1t2)	3.652	0.487	7.491	0.000	3.652	1.886
H_R.3 1 (V1t1)	0.475	0.240	1.977	0.048	0.475	0.222
H_R.3 2 (V1t2)	3.652	0.487	7.491	0.000	3.652	1.704
C_B.3 1 (V2t1)	0.350	0.213	1.642	0.101	0.350	0.188
C_B.3 2 (V2t2)	3.506	0.460	7.621	0.000	3.506	1.883
Cmm.3 1 (V2t1)	0.350	0.213	1.642	0.101	0.350	0.170
Cmm.3 2 (V2t2)	3.506	0.460	7.621	0.000	3.506	1.706
CM_B.3 (V3t1)	0.587	0.196	3.002	0.003	0.587	0.382
CM_B.3 (V3t2)	2.951	0.289	10.223	0.000	2.951	1.918
CnM.3 1 (V3t1)	0.587	0.196	3.002	0.003	0.587	0.352
CnM.3 2 (V3t2)	2.951	0.289	10.223	0.000	2.951	1.767
RP_B.3 (V4t1)	0.990	0.234	4.235	0.000	0.990	0.607
RP_B.3 (V4t2)	3.232	0.386	8.379	0.000	3.232	1.979
RgP.3 1 (V4t1)	0.990	0.234	4.235	0.000	0.990	0.555
RgP.3 2 (V4t2)	3.232	0.386	8.379	0.000	3.232	1.812
LP_B.3 (V5t1)	1.158	0.373	3.100	0.002	1.158	0.409
LP_B.3 (V5t2)	5.466	0.954	5.729	0.000	5.466	1.930
LrP.3 1 (V5t1)	1.158	0.373	3.100	0.002	1.158	0.363
LrP.3 2 (V5t2)	5.466	0.954	5.729	0.000	5.466	1.713
PR_B.3 (V6t1)	1.274	0.353	3.610	0.000	1.274	0.533
PR_B.3 (V6t2)	4.716	0.724	6.517	0.000	4.716	1.972
PcR.3 1 (V6t1)	1.274	0.353	3.610	0.000	1.274	0.476
PcR.3 2 (V6t2)	4.716	0.724	6.517	0.000	4.716	1.761
WS_B.3 (V7t1)	0.913	0.418	2.183	0.029	0.913	0.295
WS_B.3 (V7t2)	6.130	1.525	4.019	0.000	6.130	1.980
WrS.3 1 (V7t1)	0.913	0.418	2.183	0.029	0.913	0.261
WrS.3 2 (V7t2)	6.130	1.525	4.019	0.000	6.130	1.753
LGU_B.3 (V8t1)	-1.021	0.145	-7.051	0.000	-1.021	-0.574
LGU_B.3 (V8t2)	1.280	0.144	8.867	0.000	1.280	0.720
LGU.3 1 (V8t1)	-1.021	0.145	-7.051	0.000	-1.021	-0.510
LGU.3 2 (V8t2)	1.280	0.144	8.867	0.000	1.280	0.639
PR_B.3 (V9t1)	-1.056	0.170	-6.196	0.000	-1.056	-0.618
PR_B.3 (V9t2)	0.802	0.136	5.907	0.000	0.802	0.470
PsR.3 1 (V9t1)	-1.056	0.170	-6.196	0.000	-1.056	-0.551
PsR.3 2 (V9t2)	0.802	0.136	5.907	0.000	0.802	0.419
GAP_B.3 (V101)	-1.325	0.217	-6.107	0.000	-1.325	-0.665

GAP_B.3 (V10T)	0.294	0.194	1.518	0.129	0.294	0.147
GAP.3 1 (V101)	-1.325	0.217	-6.107	0.000	-1.325	-0.546
GAP.3 2 (V102)	1.381	0.341	4.047	0.000	1.381	0.569
FAL_B.3 (V111)	-1.382	0.179	-7.711	0.000	-1.382	-0.662
FAL_B.3 (V112)	0.944	0.148	6.372	0.000	0.944	0.452
FAL.3 1 (V111)	-1.382	0.179	-7.711	0.000	-1.382	-0.580
FAL.3 2 (V112)	0.944	0.148	6.372	0.000	0.944	0.396
F_B.3 1 (V121)	-1.061	0.132	-8.029	0.000	-1.061	-0.672
F_B.3 2 (V122)	0.656	0.157	4.178	0.000	0.656	0.416
Fgh.3 1 (V121)	-1.061	0.132	-8.029	0.000	-1.061	-0.605
Fgh.3 2 (V122)	0.656	0.157	4.178	0.000	0.656	0.374
FH_B.3 (V131)	-1.508	0.166	-9.109	0.000	-1.508	-0.885
FH_B.3 (V132)	0.687	0.156	4.418	0.000	0.687	0.403
FlH.3 1 (V131)	-1.508	0.166	-9.109	0.000	-1.508	-0.789
FlH.3 2 (V132)	0.687	0.156	4.418	0.000	0.687	0.360
RW_B.3 (V141)	-1.862	0.168	-11.079	0.000	-1.862	-0.995
RW_B.3 (V142)	0.515	0.143	3.600	0.000	0.515	0.275
RgW.3 1 (V141)	-1.862	0.168	-11.079	0.000	-1.862	-0.879
RgW.3 2 (V142)	0.515	0.143	3.600	0.000	0.515	0.243
Variances:						
	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
HSP.rpre	2.747	0.828	3.317	0.001	1.000	1.000
HSP.post	3.595	1.146	3.137	0.002	1.000	1.000
PBA.rpre	2.158	0.544	3.970	0.000	1.000	1.000
PBA.post	3.008	0.924	3.254	0.001	1.000	1.000
.Hlthy_Rl_Bfr.3	1.000				1.000	0.267
.Commnct_Bfr.3n					1.000	0.289
.CnflctMngm_B.3	1.000				1.000	0.422
.RghtPrtnr_Bf.3	1.000				1.000	0.375
.LrnPrtnr_Bfr.3	1.000				1.000	0.125
.PcRltnshp_Bf.3	1.000				1.000	0.175
.WrnngSgns_Bf.3	1.000				1.000	0.104
.LrndGrwngU_B.3	1.000				1.000	0.317
.PstRltnshp_B.3	1.000				1.000	0.343
.GtAlngPrnt_B.3	1.000				1.000	0.252
.FrndshpsAL_B.3	1.000				1.000	0.232
.Fights_Befr.3n	1.000				1.000	0.402
.FlngsHrt_Bfr.3	1.000				1.000	0.344
.RghtndWrng_B.3	1.000				1.000	0.285
.Healthy_Rel.3n	1.000					
.Communicate.3n					1.000	0.218
	1.000				1.000	0.237
.CnflctMngmnt.3	1.000				1.000	0.359
.RightPartnr.3n	1.000				1.000	0.314
.LearnPartnr.3n	1.000				1.000	0.098
.PaceRltnshp.3n	1.000				1.000	0.139
.WarningSgns.3n	1.000				1.000	0.082
.LrndGrwngUp.3n	1.000				1.000	0.250

.PstRltnshps.3n .GtAlngPrnts.3n .FrndshpsArLk.3 .Fights.3n .FeelingsHrt.3n .RightndWrng.3n	1.000 1.750 1.000 1.000 1.000 1.000	0.695	2.520	0.012	1.000 1.750 1.000 1.000 1.000	0.272 0.297 0.176 0.325 0.274 0.223
Scales y*:						
	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
Hlthy_Rl_Bfr.3	0.517				0.517	1.000
Commnct_Bfr.3n	0.537				0.537	1.000
CnflctMngm_B.3	0.650				0.650	1.000
RghtPrtnr_Bf.3	0.612				0.612	1.000
LrnPrtnr_Bfr.3	0.353				0.353	1.000
PcRltnshp_Bf.3	0.418				0.418	1.000
WrnngSgns_Bf.3	0.323				0.323	1.000
Healthy_Rel.3n	0.466				0.466	1.000
Communicate.3n	0.486				0.486	1.000
CnflctMngmnt.3	0.599				0.599	1.000
RightPartnr.3n	0.561				0.561	1.000
LearnPartnr.3n	0.313				0.313	1.000
${\tt PaceRltnshp.3n}$	0.373				0.373	1.000
WarningSgns.3n	0.286				0.286	1.000
LrndGrwngU_B.3	0.563				0.563	1.000
PstRltnshp_B.3	0.585				0.585	1.000
<pre>GtAlngPrnt_B.3</pre>	0.502				0.502	1.000
FrndshpsAL_B.3	0.479				0.479	1.000
Fights_Befr.3n	0.634				0.634	1.000
FlngsHrt_Bfr.3	0.587				0.587	1.000
RghtndWrng_B.3	0.534				0.534	1.000
LrndGrwngUp.3n	0.500				0.500	1.000
PstRltnshps.3n	0.522				0.522	1.000
${\tt GtAlngPrnts.3n}$	0.412				0.412	1.000
FrndshpsArLk.3	0.420				0.420	1.000
Fights.3n	0.570				0.570	1.000
FeelingsHrt.3n	0.523				0.523	1.000
RightndWrng.3n	0.472				0.472	1.000

6.5.13 Modification Indices

```
Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star
                  variables involved are: PastRelationships Before.3n PastRelationships.3n
Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star
                  variables involved are: FriendshipsAreLike Before.3n FriendshipsAreLike.3n
                                                        rhs
                          lhs op
               Communicate.3n ~~
                                             Communicate.3n 26.16376
1
2
        Communicate_Before.3n ~~
                                      Communicate_Before.3n 25.13914
3
                     HSP.post =~
                                      FriendshipsAreLike.3n 22.47603
4
                     PBA.post =~
                                        LearnedGrowingUp.3n 15.20950
5
                     PBA.rpre =~ LearnedGrowingUp Before.3n 15.20875
                     PBA.rpre =~
6
                                       PastRelationships.3n 14.79238
                                       PastRelationships.3n 14.69168
7
                    HSP.rpre =~
8
      WarningSigns_Before.3n ~~
                                     WarningSigns_Before.3n 13.40437
9
              WarningSigns.3n ~~
                                            WarningSigns.3n 13.40432
10
                     PBA.rpre =~
                                      Healthy_Rel_Before.3n 12.57399
          LearnedGrowingUp.3n ~~
                                        LearnedGrowingUp.3n 12.00664
11
12 LearnedGrowingUp_Before.3n ~~ LearnedGrowingUp_Before.3n 12.00565
13
               Communicate.3n ~~
                                            LearnPartner.3n 11.12402
14
                     HSP.post =~
                                        LearnedGrowingUp.3n 10.34116
                                     WarningSigns_Before.3n 10.12505
15
        Communicate_Before.3n ~~
                 sepc.lv
                            sepc.all
                                        sepc.nox
          ерс
  -1.8608822 -1.0000000 -0.23666313 -0.23666313
1
   1.8189317 1.0000000 0.28861087
                                      0.28861087
  -0.4237912 -0.8035461 -0.33730660 -0.33730660
 -0.6355409 -1.1022365 -0.55057521 -0.55057521
5
   0.6355253 0.9336819 0.52537003
                                     0.52537003
  -0.2602728 -0.3823798 -0.19951260 -0.19951260
  -0.2236684 -0.3707387 -0.19343867 -0.19343867
   3.0598959 1.0000000 0.10436603 0.10436603
 -3.0598901 -1.0000000 -0.08176913 -0.08176913
10 0.2897186 0.4256401 0.21987496
                                     0.21987496
   1.1947291 1.0000000 0.24950759 0.24950759
12 -1.1946799 -1.0000000 -0.31661586 -0.31661586
13 0.8877619 0.8877619 0.88776185 0.88776185
14 -0.2293990 -0.4349610 -0.21726624 -0.21726624
```

Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: start variables involved are: Communicate_Before.3n Communicate.3n

6.5.14 Model Comparison

15 -1.9323656 -1.9323656 -1.93236563 -1.93236563

```
lavaan::anova(Fit.Rcomb.model.c2.thresh2, Fit.Rcomb.model.c2.unique)
```

Scaled Chi Square Difference Test (method = "satorra.2000")

Df AIC BIC Chisq Chisq diff Df diff

Fit.Rcomb.model.c2.thresh2 344 300.25

Fit.Rcomb.model.c2.unique 364 375.42 71.232 20

Pr(>Chisq)

Fit.Rcomb.model.c2.thresh2

Fit.Rcomb.model.c2.unique 1.145e-07 ***

Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1

6.5.15 Unique Invariant 2

lavaan ((0.6-1)	converged	normally	after	147	iterations
----------	---------	-----------	----------	-------	-----	------------

	U	sed	Total	
Number of observations	:	111	134	
Estimator	Di	WLS	Robust	
Model Fit Test Statistic	322.3	337	429.806	
Degrees of freedom	;	361	361	
P-value (Chi-square)	0.9	929	0.007	
Scaling correction factor			1.669	
Shift parameter			236.667	
for simple second-order correction	(Mplus varia	nt)		
Model test baseline model:				
Minimum Function Test Statistic	18602.9	907	4580.137	
Degrees of freedom	;	378	378	
P-value	0.0	000	0.000	
User model versus baseline model:				
Comparative Fit Index (CFI)	1.0	000	0.984	
Tucker-Lewis Index (TLI)	1.0	002	0.983	
Robust Comparative Fit Index (CFI)			NA	
Robust Tucker-Lewis Index (TLI)			NA	
Root Mean Square Error of Approximation	ı:			
RMSEA	0.0	000	0.042	
90 Percent Confidence Interval	0.000 0.0	011	0.023	0.056
P-value RMSEA <= 0.05	1.0	000	0.818	
Robust RMSEA			NA	
90 Percent Confidence Interval			NA	NA
Jo Tercent Confidence Interval			NA	IVA
Standardized Root Mean Square Residual:				
SRMR	0.0	090	0.090	
Parameter Estimates:				
Information	Expec	ted		
T 0	77			

Unstructured

Robust.sem

Information saturated (h1) model

Standard Errors

Latent Variables:	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
HSP.rpre =~						
H_R_B.	1.000				1.904	0.885
Cm_B.3 (HSPL2)	0.538	0.111	4.837	0.000	1.024	0.715
CM_B.3 (HSPL3)	0.685	0.109	6.301	0.000	1.304	0.794
RP_B.3 (HSPL4)	0.737	0.119	6.190	0.000	1.404	0.815
LP_B.3 (HSPL5)	1.531	0.290	5.285	0.000	2.915	0.946
PR_B.3 (HSPL6)	1.263	0.215	5.887	0.000	2.405	0.923
WS_B.3 (HSPL7)	0.840	0.175	4.811	0.000	1.599	0.848
HSP.post =~						
H1_R.3	1.000				1.817	0.876
Cmmn.3 (HSPL2)	0.538	0.111	4.837	0.000	0.977	0.923
CnfM.3 (HSPL3)		0.109	6.301	0.000	1.244	0.779
RghP.3 (HSPL4)		0.119	6.190	0.000	1.339	0.801
LrnP.3 (HSPL5)		0.290	5.285	0.000	2.781	0.941
PcR1.3 (HSPL6)	1.263	0.215	5.887	0.000	2.294	0.917
WrnS.3 (HSPL7)	0.840	0.175	4.811	0.000	1.525	0.993
PBA.rpre =~						
LGU_B.	1.000				1.930	0.888
PR_B.3 (PBAL2)		0.109	6.261	0.000	1.314	0.796
GAP_B. (PBAL3)		0.195	4.554	0.000		0.864
FAL_B. (PBAL4)		0.155	5.854	0.000	1.757	0.869
Fg_B.3 (PBAL5)	0.596	0.112	5.320	0.000	1.151	0.755
FH_B.3 (PBAL6)	0.686	0.127		0.000	1.324	0.798
RW_B.3 (PBAL7)	0.774	0.143	5.420	0.000	1.494	0.831
PBA.post =~						
LrGU.3	1.000				2.483	0.803
PstR.3 (PBAL2)		0.109	6.261	0.000	1.690	0.861
GtAP.3 (PBAL3)	0.889	0.195	4.554	0.000	2.206	0.843
FrAL.3 (PBAL4)	0.910	0.155	5.854	0.000	2.260	0.914
Fght.3 (PBAL5)	0.596	0.112	5.320	0.000	1.481	0.829
FlnH.3 (PBAL6)	0.686	0.127	5.397	0.000	1.703	0.862
RghW.3 (PBAL7)	0.774	0.143	5.420	0.000	1.922	0.887
Covariances:						
oovariances.		Est	imate St	d.Err z-	-value P((> z)
HSP.rpre ~~						
HSP.post			0.131	0.371	0.353	0.724
PBA.rpre			2.247	0.638	3.520	0.000
PBA.post		_	0.184	0.490 -	-0.375	0.707
HSP.post ~~						
PBA.rpre			0.714	0.438	1.631	0.103
PBA.post			3.519	1.117	3.150	0.002
PBA.rpre ~~						
PBA.post			1.561	0.757	2.063	0.039
Uaal+hr Dal Dafa	ma 2m					

.Healthy_Rel_Before.3n ~~

.Health	y_Rel.3n	1.022	0.450	2.268	0.023
	ate_Before.3n ~~				
.Commun	icate.3n	0.414	0.155	2.668	0.008
.Conflict	Management_Before.3n ~~				
.Cnflct	Mngmnt.3	0.556	0.239	2.328	0.020
.RightPar	tner_Before.3n ~~				
.RightP	artnr.3n	0.043	0.336	0.128	0.898
.LearnPar	tner_Before.3n ~~				
$. {\tt LearnP}$	artnr.3n	0.958	0.858	1.117	0.264
.PaceRela	tionship_Before.3n ~~				
.PaceRl	tnshp.3n	0.858	0.643	1.334	0.182
.WarningS	igns_Before.3n ~~				
	gSgns.3n	0.170	0.266	0.640	0.522
	rowingUp_Before.3n ~~				
	wngUp.3n	0.741	0.750	0.988	0.323
	tionships_Before.3n ~~				
	nshps.3n	1.108	0.388	2.852	0.004
•	Parents_Before.3n ~~				
•	Prnts.3n	0.911	0.542	1.682	0.093
	ipsAreLike_Before.3n ~~				
	psArLk.3	1.556	0.436	3.567	0.000
_	efore.3n ~~	0 500	0.040	0.450	0 044
.Fights		0.596	0.242	2.459	0.014
_	Hurt_Before.3n ~~	0 566	0 270	1.494	0 125
	gsHrt.3n	0.566	0.379	1.494	0.135
_	Wrong_Before.3n ~~	0.822	0.391	2.099	0.036
_	dWrng.3n Management.3n ~~	0.022	0.391	2.099	0.036
	artnr.3n	0.476	0.132	3.605	0.000
•	Std.all	0.470	0.102	3.003	0.000
bua.iv	bu.aii				
0.038	0.038				
0.611	0.611				
-0.039	-0.039				
0.000					
0.204	0.204				
0.780	0.780				
0.326	0.326				
1.022	1.022				
0.414	1.016				
0.556	0.556				
0.043	0.043				

0.958	0.958
0.858	0.858
0.170	0.939
0.741	0.402
1.108	1.108
0.911	0.647
1.556	1.556
0.596	0.596
0.566	0.566
0.822	0.822
0.476	0.476

	Estimate	Std.Err	z-value	P(> z)	${\tt Std.lv}$	Std.all
HSP.rpre	0.000				0.000	0.000
HSP.post	4.239	0.617	6.866	0.000	2.334	2.334
PBA.rpre	-1.475	0.298	-4.942	0.000	-0.764	-0.764
PBA.post	2.346	0.453	5.176	0.000	0.945	0.945
.Hlthy_Rl_Bfr.3	0.000				0.000	0.000
$. {\tt Commnct_Bfr.3n}$	0.000				0.000	0.000
.CnflctMngm_B.3	0.000				0.000	0.000
.Healthy_Rel.3n	0.000				0.000	0.000
.Communicate.3n	0.000				0.000	0.000
.CnflctMngmnt.3	0.000				0.000	0.000
.RghtPrtnr_Bf.3	0.000				0.000	0.000
.LrnPrtnr_Bfr.3	0.000				0.000	0.000
.PcRltnshp_Bf.3	0.000				0.000	0.000
.WrnngSgns_Bf.3	0.000				0.000	0.000
$.\mathtt{RightPartnr.3n}$	0.000				0.000	0.000
$. {\tt LearnPartnr.3n}$	0.000				0.000	0.000
$. {\tt PaceRltnshp.3n}$	0.000				0.000	0.000
.WarningSgns.3n	0.000				0.000	0.000
$. LrndGrwngU_B.3$	0.000				0.000	0.000
.PstRltnshp_B.3	0.000				0.000	0.000
.GtAlngPrnt_B.3	0.000				0.000	0.000
.FrndshpsAL_B.3	0.000				0.000	0.000
.LrndGrwngUp.3n	0.000				0.000	0.000
.PstRltnshps.3n	0.000				0.000	0.000

.GtAlngPrnts.3n .FrndshpsArLk.3 .Fights_Befr.3n .FlngsHrt_Bfr.3 .RghtndWrng_B.3 .Fights.3n .FeelingsHrt.3n .RightndWrng.3n	0.000 0.000 0.000 0.000 0.000 0.000 0.000				0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000
Thresholds:						
	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
H_R_B.3 (V1t1)	0.580	0.271	2.140	0.032	0.580	0.269
H_R_B.3 (V1t2)	3.975	0.567	7.009	0.000	3.975	1.848
H_R.3 1 (V1t1)	0.580	0.271	2.140	0.032	0.580	0.279
H_R.3 2 (V1t2)	3.975	0.567	7.009	0.000	3.975	1.917
C_B.3 1 (V2t1)	0.380	0.150	2.533	0.011	0.380	0.265
C_B.3 2 (V2t2)	2.273	0.323	7.043	0.000	2.273	1.588
Cmm.3 1 (V2t1)	0.380	0.150	2.533	0.011	0.380	0.359
Cmm.3 2 (V2t2)	2.273	0.323	7.043	0.000	2.273	2.148
CM_B.3 (V3t1)	0.694	0.216	3.215	0.001	0.694	0.422
CM_B.3 (V3t2)	3.082	0.310	9.945	0.000	3.082	1.875
CnM.3 1 (V3t1)	0.694	0.216	3.215	0.001	0.694	0.435
CnM.3 2 (V3t2)	3.082	0.310	9.945	0.000	3.082	1.931
RP_B.3 (V4t1)	1.077	0.257	4.191	0.000	1.077	0.625
RP_B.3 (V4t2)	3.262	0.385	8.465	0.000	3.262	1.893
RgP.3 1 (V4t1)	1.077	0.257	4.191	0.000	1.077	0.644
RgP.3 2 (V4t2)	3.262	0.385	8.465	0.000	3.262	1.952
LP_B.3 (V5t1)	1.347	0.414	3.256	0.001	1.347	0.437
LP_B.3 (V5t2)	5.701	0.959	5.946	0.000	5.701	1.850
LrP.3 1 (V5t1)	1.347	0.414	3.256	0.001	1.347	0.456
LrP.3 2 (V5t2)	5.701	0.959	5.946	0.000	5.701	1.929
PR_B.3 (V6t1)	1.478	0.398	3.714	0.000	1.478	0.568
PR_B.3 (V6t2)	4.944	0.752	6.578	0.000	4.944	1.898
PcR.3 1 (V6t1)	1.478	0.398	3.714	0.000	1.478	0.591
PcR.3 2 (V6t2)	4.944	0.752	6.578	0.000	4.944	1.976
WS_B.3 (V7t1)	0.621	0.225	2.761	0.006	0.621	0.330
WS_B.3 (V7t2)	3.252	0.603	5.390	0.000	3.252	1.724
WrS.3 1 (V7t1)	0.621	0.225	2.761	0.006	0.621	0.405
WrS.3 2 (V7t2)	3.252	0.603	5.390	0.000	3.252	2.117
LGU_B.3 (V8t1)	-1.443	0.229	-6.296	0.000	-1.443	-0.664
LGU_B.3 (V8t2)	1.560	0.207	7.548	0.000	1.560	0.718
LGU.3 1 (V8t1)	-1.443	0.229	-6.296	0.000	-1.443	-0.467
LGU.3 2 (V8t2)	1.560	0.207	7.548	0.000	1.560	0.505
PR_B.3 (V9t1)	-1.045	0.169	-6.184	0.000	-1.045	-0.633
PR_B.3 (V9t2)	0.783	0.138	5.674	0.000	0.783	0.474
PsR.3 1 (V9t1)	-1.045	0.169		0.000	-1.045	-0.532
PsR.3 2 (V9t2)	0.783	0.138	5.674	0.000	0.783	0.399
GAP_B.3 (V101)	-1.379	0.226	-6.094	0.000	-1.379	-0.695

GAP_B.3 (V10T)	0.248	0.196	1.267	0.205	0.248	0.125
GAP.3 1 (V101)	-1.379	0.226	-6.094	0.000	-1.379	-0.527
GAP.3 2 (V102)	1.459	0.365	3.992	0.000	1.459	0.557
FAL_B.3 (V111)	-1.389	0.180	-7.698	0.000	-1.389	-0.687
FAL_B.3 (V112)	0.898	0.148	6.077	0.000	0.898	0.444
FAL.3 1 (V111)	-1.389	0.180	-7.698	0.000	-1.389	-0.562
FAL.3 2 (V112)	0.898	0.148	6.077	0.000	0.898	0.363
F_B.3 1 (V121)	-1.051	0.130	-8.069	0.000	-1.051	-0.689
F_B.3 2 (V122)	0.635	0.155	4.098	0.000	0.635	0.416
Fgh.3 1 (V121)	-1.051	0.130	-8.069	0.000	-1.051	-0.588
Fgh.3 2 (V122)	0.635	0.155	4.098	0.000	0.635	0.355
FH_B.3 (V131)	-1.500	0.164	-9.160	0.000	-1.500	-0.904
FH_B.3 (V132)	0.673	0.156	4.309	0.000	0.673	0.406
F1H.3 1 (V131)	-1.500	0.164	-9.160	0.000	-1.500	-0.759
F1H.3 2 (V132)	0.673	0.156	4.309	0.000	0.673	0.341
RW_B.3 (V141)	-1.833	0.169	-10.850	0.000	-1.833	-1.020
RW_B.3 (V142)	0.483	0.144	3.358	0.001	0.483	0.268
RgW.3 1 (V141)	-1.833	0.169	-10.850	0.000	-1.833	-0.846
RgW.3 2 (V142)	0.483	0.144	3.358	0.001	0.483	0.223
10811.012 (1112)	0.100	0.111	0.000	0.001	0.100	0.220
Variances:						
. 41 1 411 0 0 0 1	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
HSP.rpre	3.626	1.147	3.161	0.002	1.000	1.000
HSP.post	3.300	1.046	3.154	0.002	1.000	1.000
PBA.rpre	3.725	1.230	3.027	0.002	1.000	1.000
PBA.post	6.163	2.336	2.638	0.008	1.000	1.000
.Hlthy_Rl_Bfr.3	1.000	2.000	2.000	0.000	1.000	0.216
.Commnct_Bfr.3n	1.000				1.000	0.488
.CnflctMngm_B.3	1.000				1.000	0.370
.RghtPrtnr_Bf.3	1.000				1.000	0.337
.LrnPrtnr_Bfr.3	1.000				1.000	0.105
.PcRltnshp_Bf.3	1.000				1.000	0.147
.WrnngSgns_Bf.3	1.000				1.000	0.281
.LrndGrwngU_B.3	1.000				1.000	0.212
.PstRltnshp_B.3	1.000				1.000	0.367
.GtAlngPrnt_B.3	1.000				1.000	0.254
.FrndshpsAL_B.3	1.000				1.000	0.245
.Fights_Befr.3n	1.000				1.000	0.430
.FlngsHrt_Bfr.3	1.000				1.000	0.363
• -						0.000
Røhtndwrnø B 3						0.309
.RghtndWrng_B.3	1.000				1.000	0.309
.Healthy_Rel.3n	1.000 1.000	0 071	2 337	0 019	1.000 1.000	0.233
.Healthy_Rel.3n .Communicate.3n	1.000 1.000 0.166	0.071	2.337	0.019	1.000 1.000 0.166	0.233 0.148
.Healthy_Rel.3n .Communicate.3n .CnflctMngmnt.3	1.000 1.000 0.166 1.000	0.071	2.337	0.019	1.000 1.000 0.166 1.000	0.233 0.148 0.393
.Healthy_Rel.3n .Communicate.3n .CnflctMngmnt.3 .RightPartnr.3n	1.000 1.000 0.166 1.000	0.071	2.337	0.019	1.000 1.000 0.166 1.000 1.000	0.233 0.148 0.393 0.358
.Healthy_Rel.3n .Communicate.3n .CnflctMngmnt.3 .RightPartnr.3n .LearnPartnr.3n	1.000 1.000 0.166 1.000 1.000	0.071	2.337	0.019	1.000 1.000 0.166 1.000 1.000	0.233 0.148 0.393 0.358 0.115
.Healthy_Rel.3n .Communicate.3n .CnflctMngmnt.3 .RightPartnr.3n .LearnPartnr.3n .PaceRltnshp.3n	1.000 1.000 0.166 1.000 1.000 1.000				1.000 1.000 0.166 1.000 1.000 1.000	0.233 0.148 0.393 0.358 0.115 0.160
.Healthy_Rel.3n .Communicate.3n .CnflctMngmnt.3 .RightPartnr.3n .LearnPartnr.3n	1.000 1.000 0.166 1.000 1.000	0.071 0.102 1.319	2.337 0.324 2.573	0.019 0.746 0.010	1.000 1.000 0.166 1.000 1.000	0.233 0.148 0.393 0.358 0.115

.PstRltnshps.3n	1.000				1.000	0.259
.GtAlngPrnts.3n		0.810	2.449	0.014	1.984	0.290
.FrndshpsArLk.3	1.000	0.010	2.110	0.011	1.000	0.164
.Fights.3n	1.000				1.000	0.313
.FeelingsHrt.3n					1.000	0.256
.RightndWrng.3n					1.000	0.213
.itigiitiidwiiig.Sii	1.000				1.000	0.210
Scales y*:						
	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
Hlthy_Rl_Bfr.3	0.465				0.465	1.000
Commnct_Bfr.3n	0.699				0.699	1.000
CnflctMngm_B.3	0.609				0.609	1.000
RghtPrtnr_Bf.3	0.580				0.580	1.000
LrnPrtnr_Bfr.3	0.324				0.324	1.000
PcRltnshp_Bf.3	0.384				0.384	1.000
WrnngSgns_Bf.3	0.530				0.530	1.000
Healthy_Rel.3n	0.482				0.482	1.000
Communicate.3n	0.945				0.945	1.000
CnflctMngmnt.3	0.627				0.627	1.000
RightPartnr.3n	0.598				0.598	1.000
LearnPartnr.3n	0.338				0.338	1.000
PaceRltnshp.3n	0.400				0.400	1.000
WarningSgns.3n	0.651				0.651	1.000
LrndGrwngU_B.3	0.460				0.460	1.000
PstRltnshp_B.3	0.606				0.606	1.000
<pre>GtAlngPrnt_B.3</pre>	0.504				0.504	1.000
FrndshpsAL_B.3	0.495				0.495	1.000
Fights_Befr.3n	0.656				0.656	1.000
FlngsHrt_Bfr.3	0.603				0.603	1.000
RghtndWrng_B.3	0.556				0.556	1.000
LrndGrwngUp.3n	0.323				0.323	1.000
PstRltnshps.3n	0.509				0.509	1.000
GtAlngPrnts.3n	0.382				0.382	1.000
FrndshpsArLk.3	0.405				0.405	1.000
Fights.3n	0.560				0.560	1.000
FeelingsHrt.3n	0.506				0.506	1.000
RightndWrng.3n	0.462				0.462	1.000

6.5.16 Modification Indices

```
Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star
                  variables involved are: Healthy_Rel_Before.3n Healthy_Rel.3n
Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star
                  variables involved are: Communicate_Before.3n Communicate.3n
Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star
                  variables involved are: PastRelationships Before.3n PastRelationships.3n
Warning in lav_start_check_cov(lavpartable = lavpartable, start = START): lavaan WARNING: star
                  variables involved are: FriendshipsAreLike_Before.3n FriendshipsAreLike.3n
       lhs op
                                rhs
                                                    ерс
                                                           sepc.lv
1 HSP.post =~ FriendshipsAreLike.3n 22.66972 -0.4190501 -0.7612139
2 PBA.rpre =~ PastRelationships.3n 15.60609 -0.2079748 -0.4014019
3 HSP.rpre =~ PastRelationships.3n 15.42121 -0.2069952 -0.3941735
    sepc.all
               sepc.nox
1 -0.3080595 -0.3080595
2 -0.2043722 -0.2043722
3 -0.2006919 -0.2006919
```

6.5.17 Model Comparison

```
lavaan::anova(Fit.Rcomb.model.c2.thresh2, Fit.Rcomb.model.c2.unique2)

Scaled Chi Square Difference Test (method = "satorra.2000")

Df AIC BIC Chisq Chisq diff Df diff

Fit.Rcomb.model.c2.thresh2 344 300.25

Fit.Rcomb.model.c2.unique2 361 322.34 28.676 17

Pr(>Chisq)

Fit.Rcomb.model.c2.thresh2

Fit.Rcomb.model.c2.thresh2

Fit.Rcomb.model.c2.unique2 0.03763 *
---

Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

6.6 Saving Factor Scores

6.6.1 Final Model

lavaan (0.6	6-1) converged	l normally a	after 147	iterations

lavaan (0.6-1) converged normally after	147 iter	ations		
Number of observations		111		
Estimator		DWLS	Robust	
Model Fit Test Statistic	3	22.337	429.806	
Degrees of freedom		361	361	
P-value (Chi-square)		0.929	0.007	
Scaling correction factor			1.669	
Shift parameter			236.667	
for simple second-order correction	(Mplus va	riant)		
Model test baseline model:				
Minimum Function Test Statistic	186	02.907	4580.137	
Degrees of freedom		378	378	
P-value		0.000	0.000	
User model versus baseline model:				
Comparative Fit Index (CFI)		1.000	0.984	
Tucker-Lewis Index (TLI)		1.002	0.983	
Robust Comparative Fit Index (CFI)			NA	
Robust Tucker-Lewis Index (TLI)			NA	
Root Mean Square Error of Approximation	ı :			
RMSEA		0.000	0.042	
90 Percent Confidence Interval	0.000	0.011	0.023	0.056
P-value RMSEA <= 0.05		1.000	0.818	
Robust RMSEA			NA	
90 Percent Confidence Interval			NA	NA
Standardized Root Mean Square Residual:				
SRMR		0.090	0.090	

Parameter Estimates:

Information Expected Information saturated (h1) model Unstructured

Latent Variables:

Standard Errors

		Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
HSP.rpre	=~						
H_R_B .		1.000				1.904	0.885
$Cm_B.3$	(HSPL2)	0.538	0.111	4.837	0.000	1.024	0.715
CM_B.3	(HSPL3)	0.685	0.109	6.301	0.000	1.304	0.794
RP_B.3	(HSPL4)	0.737	0.119	6.190	0.000	1.404	0.815
LP_B.3	(HSPL5)	1.531	0.290	5.285	0.000	2.915	0.946
PR_B.3	(HSPL6)	1.263	0.215	5.887	0.000	2.405	0.923
WS_B.3	(HSPL7)	0.840	0.175	4.811	0.000	1.599	0.848
HSP.post	=~						
Hl_R.3		1.000				1.817	0.876
Cmmn.3	(HSPL2)	0.538	0.111	4.837	0.000	0.977	0.923
CnfM.3	(HSPL3)	0.685	0.109	6.301	0.000	1.244	0.779
RghP.3	(HSPL4)	0.737	0.119	6.190	0.000	1.339	0.801
LrnP.3	(HSPL5)	1.531	0.290	5.285	0.000	2.781	0.941
PcR1.3	(HSPL6)	1.263	0.215	5.887	0.000	2.294	0.917
WrnS.3	(HSPL7)	0.840	0.175	4.811	0.000	1.525	0.993
PBA.rpre	=~						
LGU_B.		1.000				1.930	0.888
PR_B.3	(PBAL2)	0.681	0.109	6.261	0.000	1.314	0.796
GAP_B.	(PBAL3)	0.889	0.195	4.554	0.000	1.715	0.864
FAL_B.	(PBAL4)	0.910	0.155	5.854	0.000	1.757	0.869
Fg_B.3	(PBAL5)	0.596	0.112	5.320	0.000	1.151	0.755
FH_B.3	(PBAL6)	0.686	0.127	5.397	0.000	1.324	0.798
RW_B.3	(PBAL7)	0.774	0.143	5.420	0.000	1.494	0.831
PBA.post	=~						
LrGU.3		1.000				2.483	0.803
PstR.3	(PBAL2)	0.681	0.109	6.261	0.000	1.690	0.861
GtAP.3	(PBAL3)	0.889	0.195	4.554	0.000	2.206	0.843
FrAL.3	(PBAL4)	0.910	0.155	5.854	0.000	2.260	0.914
Fght.3	(PBAL5)	0.596	0.112	5.320	0.000	1.481	0.829
FlnH.3	(PBAL6)	0.686	0.127	5.397	0.000	1.703	0.862
RghW.3	(PBAL7)	0.774	0.143	5.420	0.000	1.922	0.887

Covariances:

	Estimate	Std.Err	z-value	P(> z)
HSP.rpre ~~				
HSP.post	0.131	0.371	0.353	0.724
PBA.rpre	2.247	0.638	3.520	0.000
PBA.post	-0.184	0.490	-0.375	0.707
HSP.post ~~				
PBA.rpre	0.714	0.438	1.631	0.103
PBA.post	3.519	1.117	3.150	0.002
PBA.rpre ~~				
PBA.post	1.561	0.757	2.063	0.039

.Healthy l	Rel_Before.3n ~~				
•	y_Rel.3n	1.022	0.450	2.268	0.023
	ate_Before.3n ~~				
	icate.3n	0.414	0.155	2.668	0.008
.Conflict	Management_Before.3n ~~				
	Mngmnt.3	0.556	0.239	2.328	0.020
	tner_Before.3n ~~				
-	artnr.3n	0.043	0.336	0.128	0.898
_	tner_Before.3n ~~				
.LearnPa	artnr.3n	0.958	0.858	1.117	0.264
.PaceRela	tionship_Before.3n ~~				
.PaceRl	tnshp.3n	0.858	0.643	1.334	0.182
.WarningS:	igns_Before.3n ~~				
.Warning	gSgns.3n	0.170	0.266	0.640	0.522
. Learned G	rowingUp_Before.3n ~~				
.LrndGr	wngUp.3n	0.741	0.750	0.988	0.323
.PastRela	tionships_Before.3n ~~				
.PstRltı	nshps.3n	1.108	0.388	2.852	0.004
$.{\tt GetAlongl}$	Parents_Before.3n ~~				
$.{ t GtAlngl}$	Prnts.3n	0.911	0.542	1.682	0.093
.Friendsh	ipsAreLike_Before.3n ~~				
	psArLk.3	1.556	0.436	3.567	0.000
.Fights_B	efore.3n ~~				
.Fights		0.596	0.242	2.459	0.014
_	Hurt_Before.3n ~~				
	gsHrt.3n	0.566	0.379	1.494	0.135
-	Wrong_Before.3n ~~				
_	dWrng.3n	0.822	0.391	2.099	0.036
	Management.3n ~~				
•	artnr.3n	0.476	0.132	3.605	0.000
Std.lv	Std.all				
0.038	0.038				
0.611	0.611				
-0.039	-0.039				
0.204	0.204				
0.780	0.780				
0.000	0.000				
0.326	0.326				
1 000	1 000				
1.022	1.022				
O 414	1 016				
0.414	1.016				
0.556	0.556				
0.556	0.000				
0.043	0.043				
0.043	0.040				

0.958	0.958
0.858	0.858
0.170	0.939
0.741	0.402
1.108	1.108
0.911	0.647
1.556	1.556
0.596	0.596
0.566	0.566
0.822	0.822
0.476	0.476

tercepts:						
	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
HSP.rpre	0.000				0.000	0.000
HSP.post	4.239	0.617	6.866	0.000	2.334	2.334
PBA.rpre	-1.475	0.298	-4.942	0.000	-0.764	-0.764
PBA.post	2.346	0.453	5.176	0.000	0.945	0.945
.Hlthy_Rl_Bfr.3	0.000				0.000	0.000
.Commnct_Bfr.3n	0.000				0.000	0.000
.CnflctMngm_B.3	0.000				0.000	0.000
.Healthy_Rel.3n	0.000				0.000	0.000
.Communicate.3n	0.000				0.000	0.000
.CnflctMngmnt.3	0.000				0.000	0.000
.RghtPrtnr_Bf.3	0.000				0.000	0.000
.LrnPrtnr_Bfr.3	0.000				0.000	0.000
.PcRltnshp_Bf.3	0.000				0.000	0.000
.WrnngSgns_Bf.3	0.000				0.000	0.000
.RightPartnr.3n	0.000				0.000	0.000
.LearnPartnr.3n	0.000				0.000	0.000
.PaceRltnshp.3n	0.000				0.000	0.000
.WarningSgns.3n	0.000				0.000	0.000
.LrndGrwngU_B.3	0.000				0.000	0.000
.PstRltnshp_B.3	0.000				0.000	0.000
.GtAlngPrnt_B.3	0.000				0.000	0.000
.FrndshpsAL_B.3	0.000				0.000	0.000
.LrndGrwngUp.3n	0.000				0.000	0.000

.PstRltnshpsGtAlngPrntsFrndshpsArLk .Fights_BefrFlngsHrt_Bfr .RghtndWrng_B .Fights.3n .FeelingsHrtRightndWrng.	3n 0.000 .3 0.000 3n 0.000 .3 0.000 .3 0.000 0.000 3n 0.000				0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000
Thresholds:						
	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
$H_R_B.3$ (V1t		0.271	2.140	0.032	0.580	0.269
H_R_B.3 (V1t		0.567	7.009	0.000	3.975	1.848
H_R.3 1 (V1t		0.271	2.140	0.032	0.580	0.279
H_R.3 2 (V1t		0.567	7.009	0.000	3.975	1.917
C_B.3 1 (V2t		0.150	2.533	0.011	0.380	0.265
C_B.3 2 (V2t		0.323	7.043	0.000	2.273	1.588
Cmm.3 1 (V2t		0.150	2.533	0.011	0.380	0.359
Cmm.3 2 (V2t		0.323	7.043	0.000	2.273	2.148
CM_B.3 (V3t		0.216	3.215	0.001	0.694	0.422
CM_B.3 (V3t		0.310	9.945	0.000	3.082	1.875
CnM.3 1 (V3t		0.216	3.215	0.001	0.694	0.435
CnM.3 2 (V3t	2) 3.082	0.310	9.945	0.000	3.082	1.931
RP_B.3 (V4t	1) 1.077	0.257	4.191	0.000	1.077	0.625
RP_B.3 (V4t	2) 3.262	0.385	8.465	0.000	3.262	1.893
RgP.3 1 (V4t	1) 1.077	0.257	4.191	0.000	1.077	0.644
RgP.3 2 (V4t	2) 3.262	0.385	8.465	0.000	3.262	1.952
LP_B.3 (V5t	1) 1.347	0.414	3.256	0.001	1.347	0.437
LP_B.3 (V5t	2) 5.701	0.959	5.946	0.000	5.701	1.850
LrP.3 1 (V5t	1) 1.347	0.414	3.256	0.001	1.347	0.456
LrP.3 2 (V5t	2) 5.701	0.959	5.946	0.000	5.701	1.929
PR_B.3 (V6t	1) 1.478	0.398	3.714	0.000	1.478	0.568
PR_B.3 (V6t	2) 4.944	0.752	6.578	0.000	4.944	1.898
PcR.3 1 (V6t	1) 1.478	0.398	3.714	0.000	1.478	0.591
PcR.3 2 (V6t	2) 4.944	0.752	6.578	0.000	4.944	1.976
WS_B.3 (V7t	1) 0.621	0.225	2.761	0.006	0.621	0.330
WS_B.3 (V7t	2) 3.252	0.603	5.390	0.000	3.252	1.724
WrS.3 1 (V7t	1) 0.621	0.225	2.761	0.006	0.621	0.405
WrS.3 2 (V7t	2) 3.252	0.603	5.390	0.000	3.252	2.117
LGU_B.3 (V8t	1) -1.443	0.229	-6.296	0.000	-1.443	-0.664
LGU_B.3 (V8t	2) 1.560	0.207	7.548	0.000	1.560	0.718
LGU.3 1 (V8t	1) -1.443	0.229	-6.296	0.000	-1.443	-0.467
LGU.3 2 (V8t	2) 1.560	0.207	7.548	0.000	1.560	0.505
PR_B.3 (V9t	1) -1.045	0.169	-6.184	0.000	-1.045	-0.633
PR_B.3 (V9t	2) 0.783	0.138	5.674	0.000	0.783	0.474
PsR.3 1 (V9t	1) -1.045	0.169	-6.184	0.000	-1.045	-0.532
PsR.3 2 (V9t	2) 0.783	0.138	5.674	0.000	0.783	0.399

GAP_B.3 (V101)	-1.379	0.226	-6.094	0.000	-1.379	-0.695
GAP_B.3 (V10T)	0.248	0.196	1.267	0.205	0.248	0.125
GAP.3 1 (V101)	-1.379	0.226	-6.094	0.000	-1.379	-0.527
GAP.3 2 (V102)	1.459	0.365	3.992	0.000	1.459	0.557
FAL_B.3 (V111)	-1.389	0.180	-7.698	0.000	-1.389	-0.687
FAL_B.3 (V112)	0.898	0.148	6.077	0.000	0.898	0.444
FAL.3 1 (V111)	-1.389	0.180	-7.698	0.000	-1.389	-0.562
FAL.3 2 (V112)	0.898	0.148	6.077	0.000	0.898	0.363
F_B.3 1 (V121)	-1.051	0.130	-8.069	0.000	-1.051	-0.689
F_B.3 2 (V122)	0.635	0.155	4.098	0.000	0.635	0.416
Fgh.3 1 (V121)	-1.051	0.130	-8.069	0.000	-1.051	-0.588
Fgh.3 2 (V122)	0.635	0.155	4.098	0.000	0.635	0.355
FH_B.3 (V131)	-1.500	0.164	-9.160	0.000	-1.500	-0.904
FH_B.3 (V132)	0.673	0.156	4.309	0.000	0.673	0.406
FlH.3 1 (V131)	-1.500	0.164	-9.160	0.000	-1.500	-0.759
FlH.3 2 (V132)	0.673	0.156	4.309	0.000	0.673	0.341
RW_B.3 (V141)	-1.833	0.169	-10.850	0.000	-1.833	-1.020
RW_B.3 (V142)	0.483	0.144	3.358	0.001	0.483	0.268
RgW.3 1 (V141)	-1.833	0.169	-10.850	0.000	-1.833	-0.846
RgW.3 2 (V142)	0.483	0.144	3.358	0.001	0.483	0.223
Variances:						
	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
HSP.rpre	3.626	1.147	3.161	0.002	1.000	1.000
HSP.post	3.300	1.046	3.154	0.002	1.000	1.000
PBA.rpre	3.725	1.230	3.027	0.002	1.000	1.000
PBA.post	6.163	2.336	2.638	0.008	1.000	1.000
.Hlthy_Rl_Bfr.3	1.000				1.000	0.216
.Commnct_Bfr.3n	1.000				1.000	0.488
.CnflctMngm_B.3	1.000				1.000	0.370
.RghtPrtnr_Bf.3	1.000				1.000	0.337
.LrnPrtnr_Bfr.3	1.000				1.000	0.105
.PcRltnshp_Bf.3	1.000				1.000	0.147
.WrnngSgns_Bf.3	1.000				1.000	0.281
.LrndGrwngU_B.3	1.000				1.000	0.212
.PstRltnshp_B.3	1.000				1.000	0.367
.GtAlngPrnt_B.3	1.000				1.000	0.254
.FrndshpsAL_B.3	1.000				1.000	0.245
.Fights_Befr.3n	1.000				1.000	0.430
.FlngsHrt_Bfr.3	1.000				1.000	0.363
.RghtndWrng_B.3	1.000				1.000	0.309
.Healthy_Rel.3n					1.000	0.233
.Communicate.3n	0.166	0.071	2.337	0.019	0.166	0.148
.CnflctMngmnt.3	1.000				1.000	0.393
.RightPartnr.3n					1.000	0.358
.LearnPartnr.3n	1.000				1.000	0.115
.PaceRltnshp.3n	1.000				1.000	0.160
.WarningSgns.3n		0.102	0.324	0.746	0.033	0.014
		-	· · ·			· · ·

.LrndGrwngUp.3n .PstRltnshps.3n	3.395 1.000	1.319	2.573	0.010	3.395 1.000	0.355 0.259
.GtAlngPrnts.3n		0.810	2.449	0.014		
•		0.010	2.449	0.014	1.984	0.290
.FrndshpsArLk.3	1.000				1.000	0.164
.Fights.3n	1.000				1.000	0.313
.FeelingsHrt.3n	1.000				1.000	0.256
.RightndWrng.3n	1.000				1.000	0.213
Scales y*:						
	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
Hlthy_Rl_Bfr.3	0.465				0.465	1.000
Commnct_Bfr.3n	0.699				0.699	1.000
CnflctMngm_B.3	0.609				0.609	1.000
RghtPrtnr_Bf.3	0.580				0.580	1.000
LrnPrtnr_Bfr.3	0.324				0.324	1.000
PcRltnshp_Bf.3	0.384				0.384	1.000
WrnngSgns_Bf.3	0.530				0.530	1.000
Healthy_Rel.3n	0.482				0.482	1.000
Communicate.3n	0.945				0.945	1.000
CnflctMngmnt.3	0.627				0.627	1.000
RightPartnr.3n	0.598				0.598	1.000
LearnPartnr.3n	0.338				0.338	1.000
PaceRltnshp.3n	0.400				0.400	1.000
WarningSgns.3n	0.651				0.651	1.000
LrndGrwngU_B.3	0.460				0.460	1.000
PstRltnshp_B.3	0.606				0.606	1.000
GtAlngPrnt_B.3	0.504				0.504	1.000
FrndshpsAL_B.3	0.495				0.495	1.000
Fights_Befr.3n	0.656				0.656	1.000
FlngsHrt_Bfr.3	0.603				0.603	1.000
RghtndWrng_B.3	0.556				0.556	1.000
LrndGrwngUp.3n	0.323				0.323	1.000
PstRltnshps.3n	0.509				0.509	1.000
GtAlngPrnts.3n	0.382				0.382	1.000
FrndshpsArLk.3	0.405				0.405	1.000
Fights.3n	0.560				0.560	1.000
FeelingsHrt.3n	0.506				0.506	1.000
RightndWrng.3n	0.462				0.462	1.000

6.6.2 Generating and Saving Factor Scores

```
Mean/Count (SD/%)
        n = 111
HSP.rpre
        -0.1(1.7)
HSP.post
        1.5 (2.7)
PBA.rpre
        -0.9 (2.1)
PBA.post
      0.5 (2.9)
N = 111
Note: pearson correlation (p-value).
_____
                     [2] [3] [4]
[1] HSP.rpre 1.00
[2]PBA.rpre 0.758 (<.001) 1.00
[3] HSP.post 0.065 (0.499) 0.243 (0.01) 1.00
[4] PBA.post 0.056 (0.562) 0.396 (<.001) 0.92 (<.001) 1.00
```

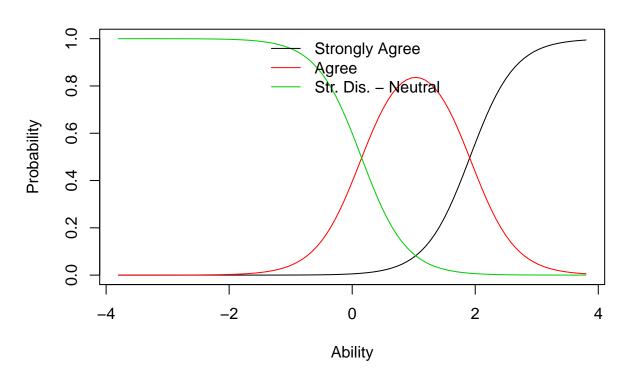
6.6.3 Long factor score data

```
PICK_clean.fscore_long <- PICK_clean %>%
    dplyr::left_join(PICK_clean.fscores, by = "ID") %>%
    dplyr::filter(complete.cases(HSP.rpre, HSP.post, PBA.rpre, PBA.post)) %>%
    dplyr::filter(in.analysis.sample3 == TRUE) %>%
    dplyr::rename(HSPrpre = HSP.rpre,
                  HSPpost = HSP.post,
                  PBArpre = PBA.rpre,
                  PBApost = PBA.post) %>%
    dplyr::select(ID,
                  Age,
                  `Age (Decades)`,
                  Age Groups,
                  Ethnic_Code,
                  Race Dichotomous,
                  Education_collapsed,
                  Education_3cat,
                  Prior_RshpEducation,
                  Prior_RshpEducation_collapsed,
                  FinancialWorry_cat,
                  Income,
                  Income (10K),
                  Number_Attended,
                  Dosage,
                  Gender,
                  Divorced_Dichotomous,
                  HSPrpre, HSPpost, PBArpre, PBApost) %>%
    tidyr::gather(key = var,
                  value = Score,
                  HSPrpre, HSPpost, PBArpre, PBApost) %>%
    tidyr::separate(col = var, into = c("Domain", "Time"), sep = -4) %>%
    dplyr::mutate_at(vars(ID,Domain, Time), factor) %>%
    dplyr::arrange(ID, Domain, Time) %>%
    dplyr::mutate(Time = factor(Time,
                                levels = c("rpre", "post"))) %>%
    dplyr::mutate(Age_Decades = `Age (Decades)`) %>%
    dplyr::mutate(Income_10K = `Income (10K)`)
save(PICK_clean.fscore_long, file="./Data/PICK_clean.fscore_long.Rda")
```

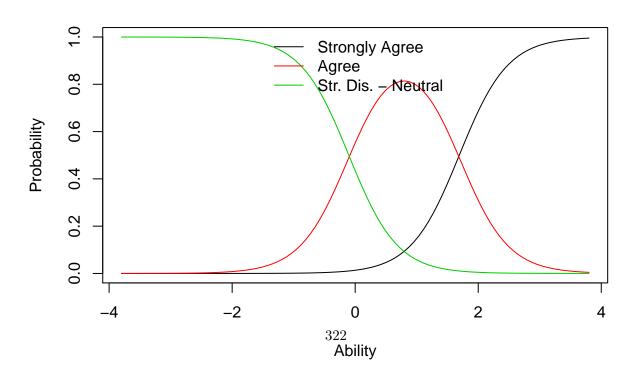
7 IRT Approach

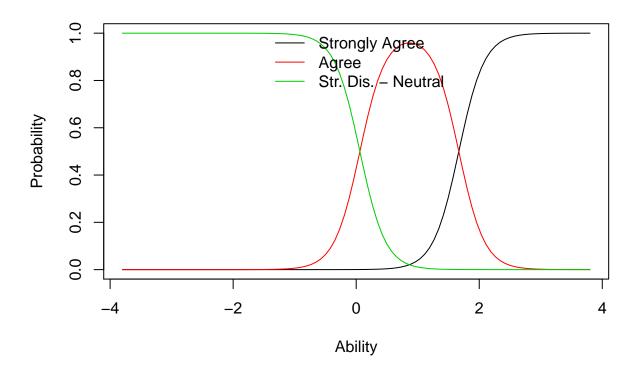
7.1 HRS Retrospective-Pre

Item Response Category Characteristic Curves - Item: Healthy_Rel_Before

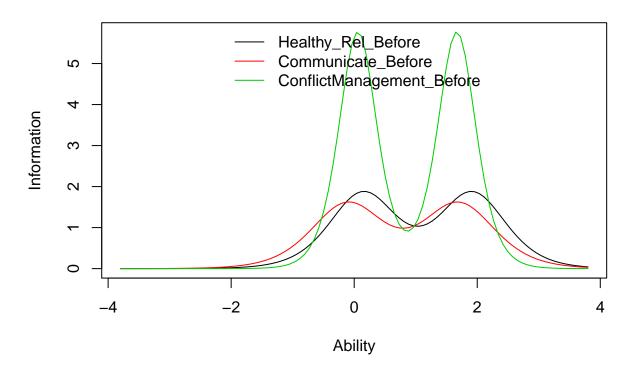


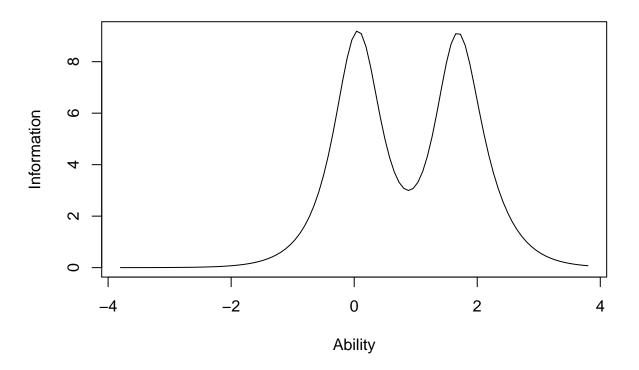
Item Response Category Characteristic Curves – Item: Communicate_Before





Item Information Curves

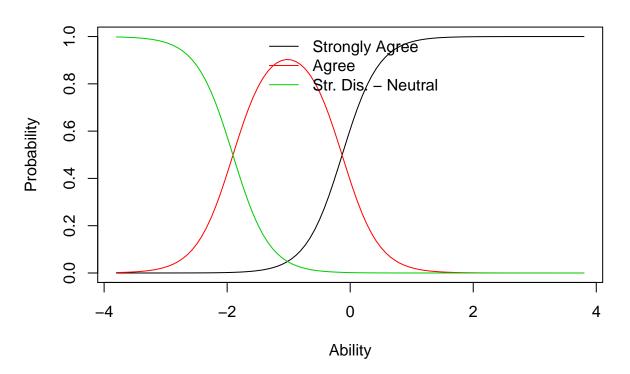




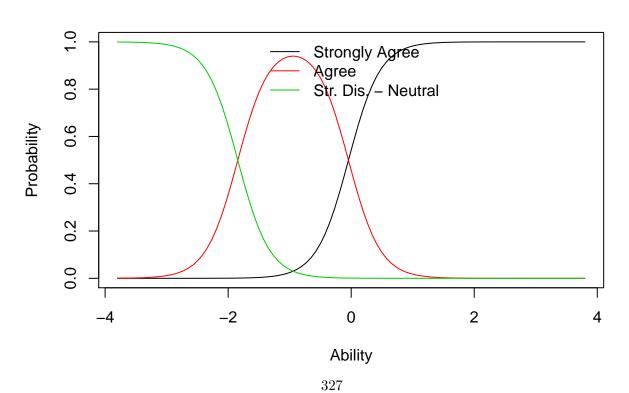
Joining, by = c("Healthy_Rel_Before", "Communicate_Before", "ConflictManagement_Before")

7.2 HRS Post

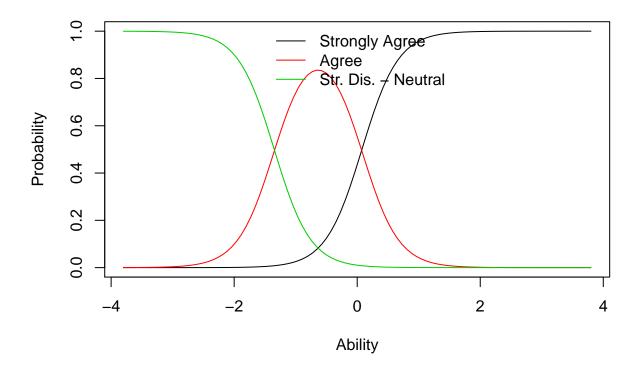
Item Response Category Characteristic Curves – Item: Healthy_Rel

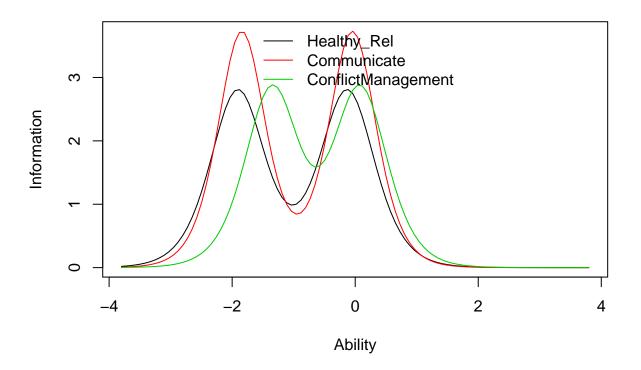


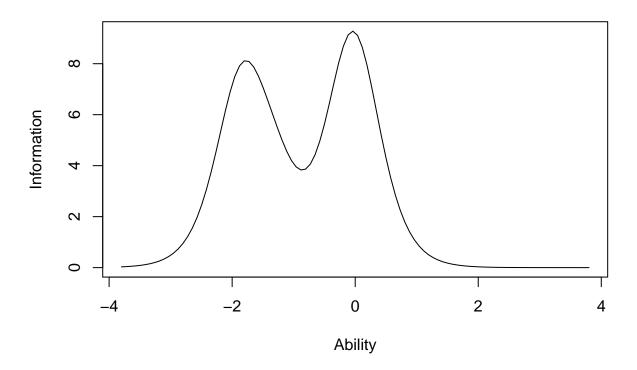
Item Response Category Characteristic Curves - Item: Communicate



Item Response Category Characteristic Curves – Item: ConflictManagement





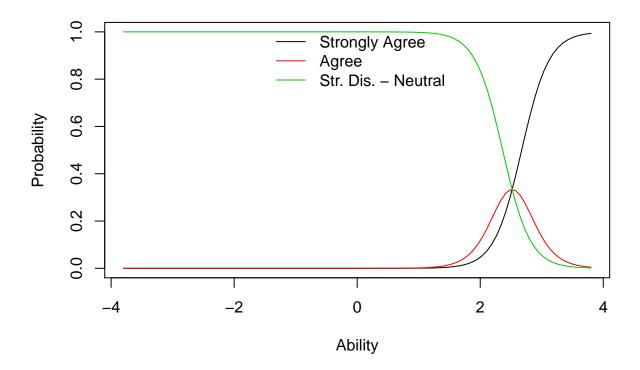


Joining, by = c("Healthy_Rel", "Communicate", "ConflictManagement")

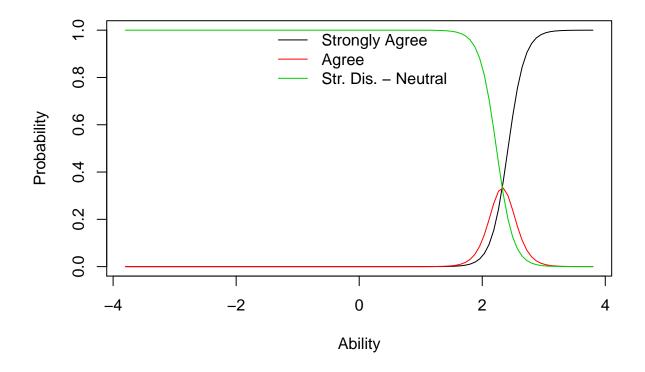
7.3 PS Pre

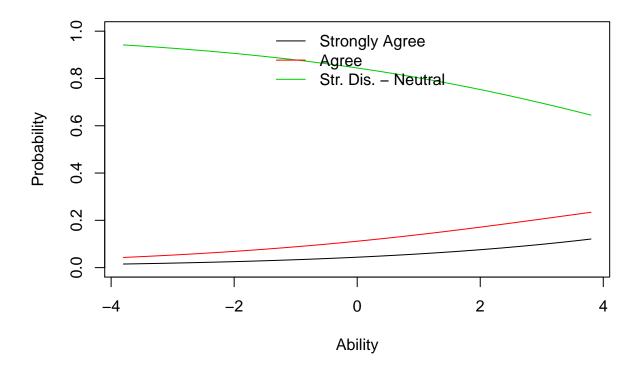
Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred

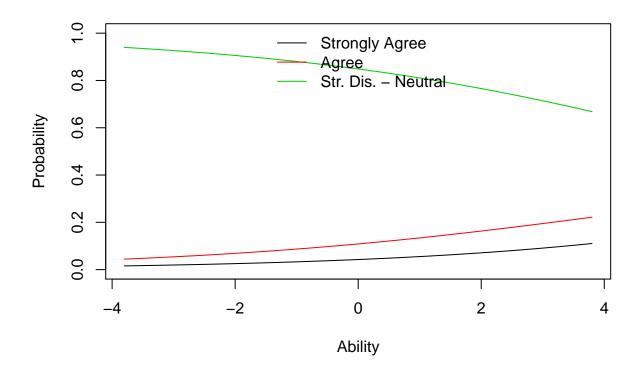
Item Response Category Characteristic Curves – Item: RightPartner_Before

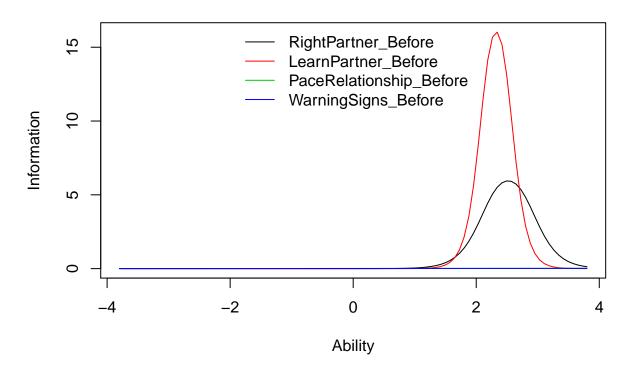


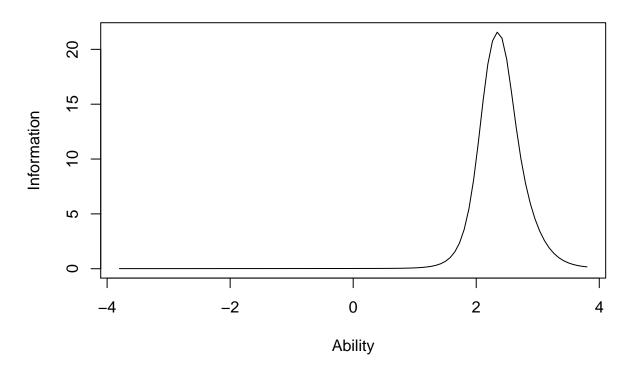
Item Response Category Characteristic Curves – Item: LearnPartner_Before







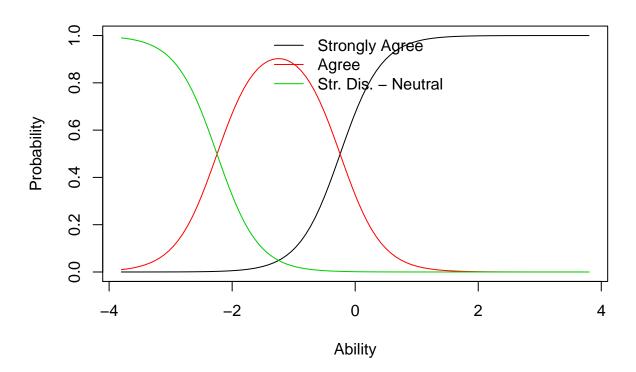




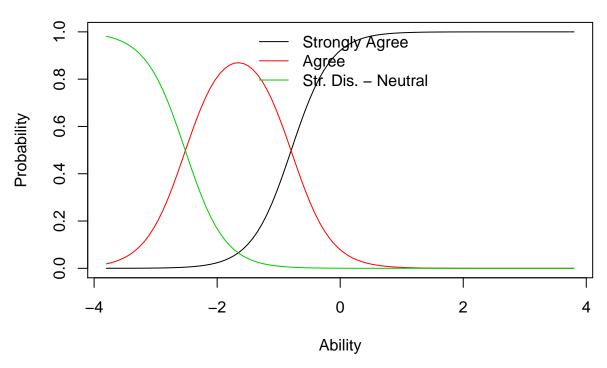
 $\label{lem:condition} \mbox{Joining, by = c("RightPartner_Before", "LearnPartner_Before", "PaceRelationship_Before", "Warn to be a condition of the condition$

7.4 PS Post

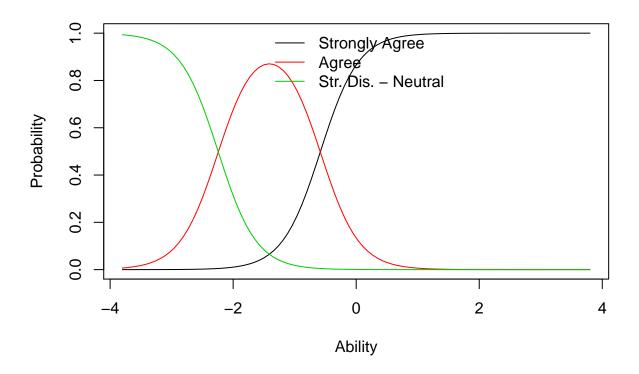
Item Response Category Characteristic Curves – Item: RightPartner

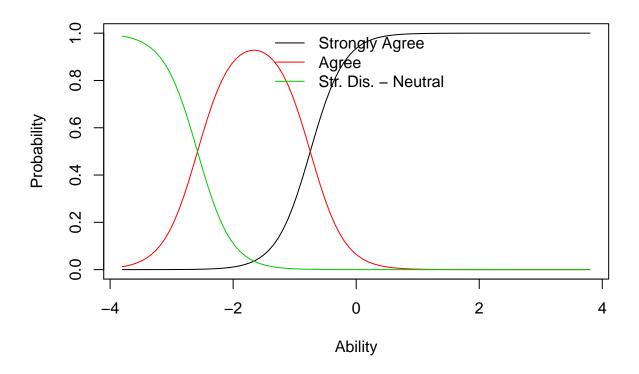


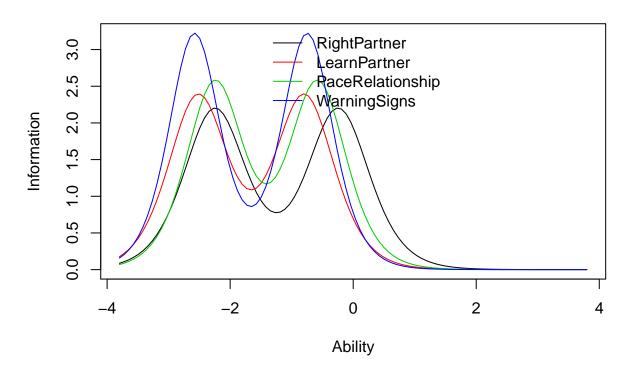
Item Response Category Characteristic Curves – Item: LearnPartner

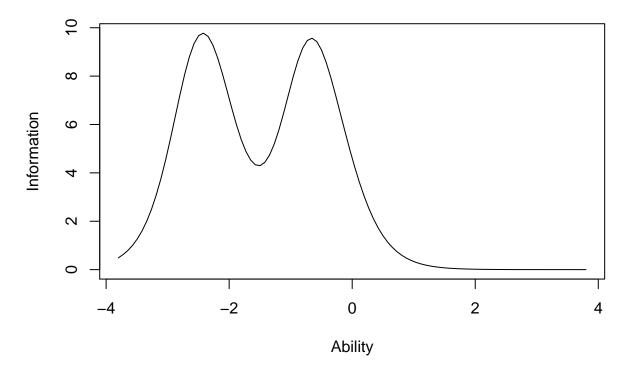


Item Response Category Characteristic Curves – Item: PaceRelationship





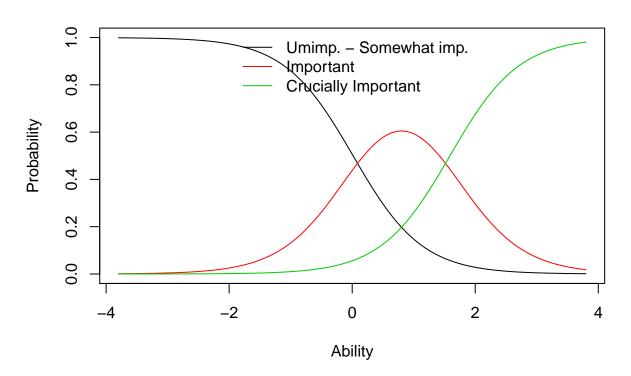




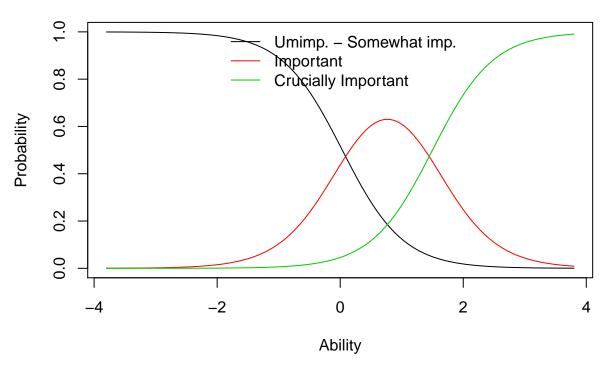
Joining, by = c("RightPartner", "LearnPartner", "PaceRelationship", "WarningSigns")

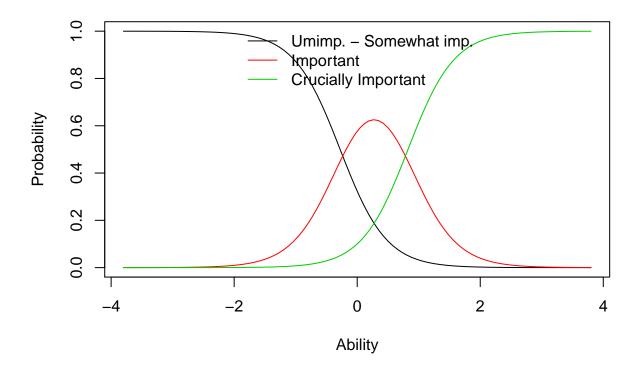
7.5 RP Pre

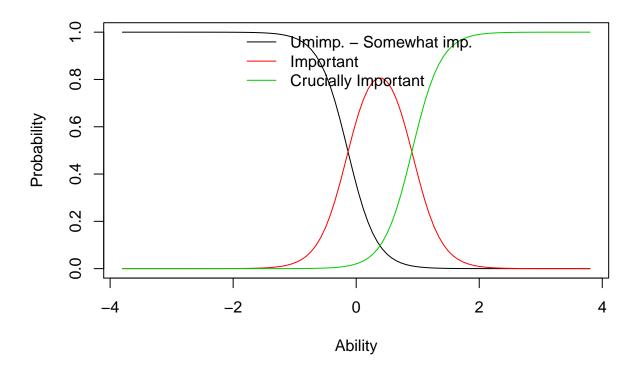
Item Response Category Characteristic Curves – Item: LearnedGrowingUp_Before

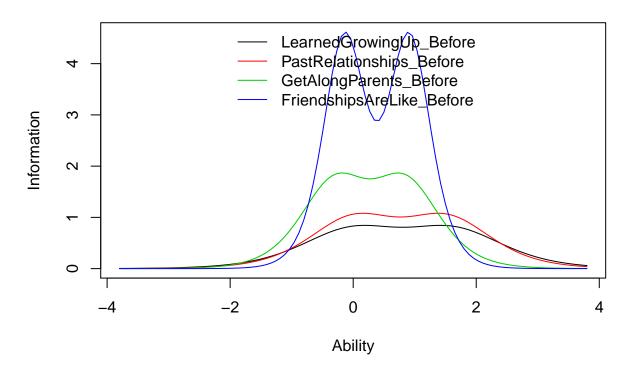


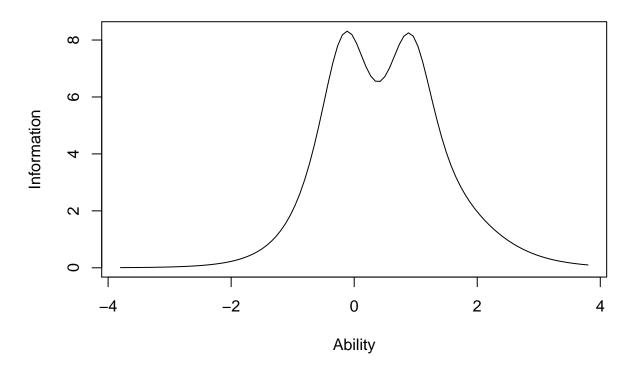
Item Response Category Characteristic Curves – Item: PastRelationships_Before







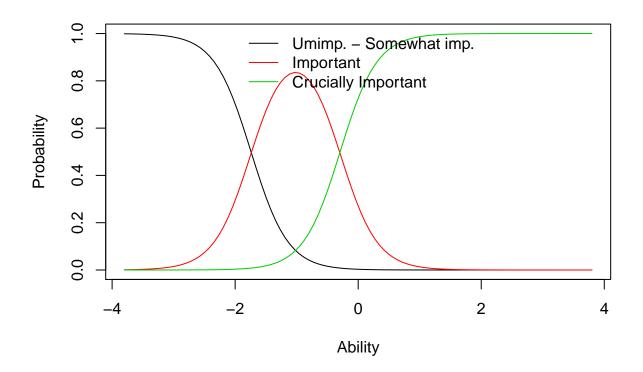




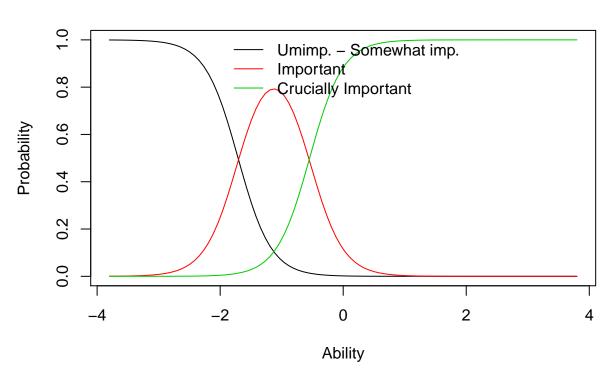
 $\label{local_point_point} \mbox{Joining, by = c("LearnedGrowingUp_Before", "PastRelationships_Before", "GetAlongParents_Before", "FastRelationships_Before", "GetAlongParents_Before", "FastRelationships_Before", "GetAlongParents_Before", "GetAlongParents_Before, "GetAlongParent$

7.6 RP Post

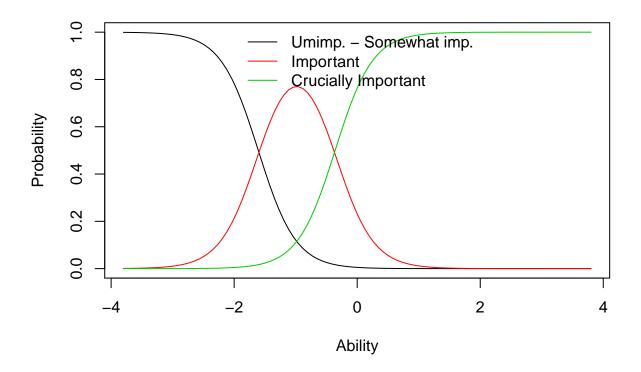
Item Response Category Characteristic Curves – Item: LearnedGrowingUp

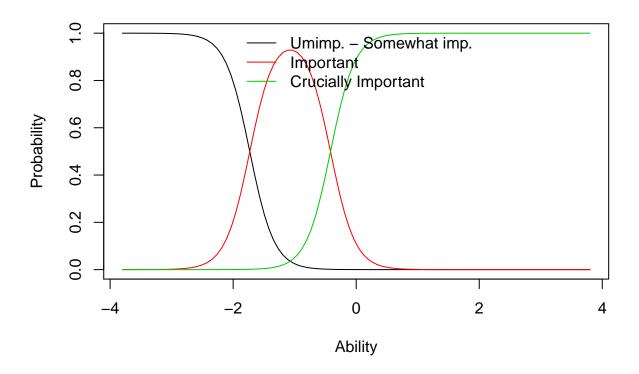


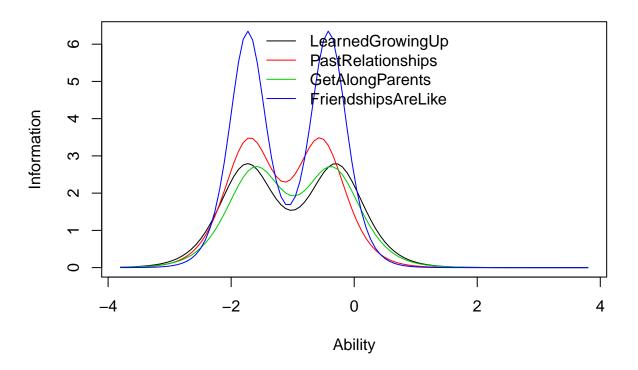
Item Response Category Characteristic Curves - Item: PastRelationships

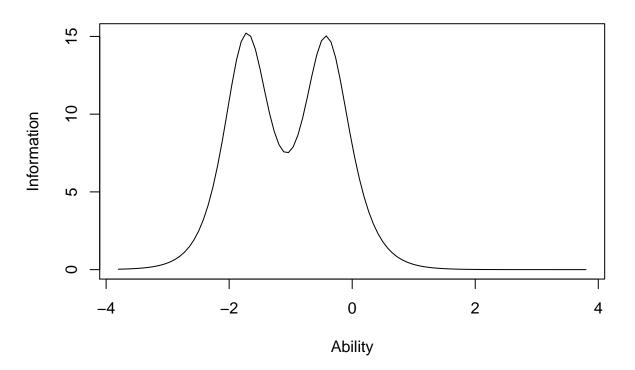


Item Response Category Characteristic Curves – Item: GetAlongParents





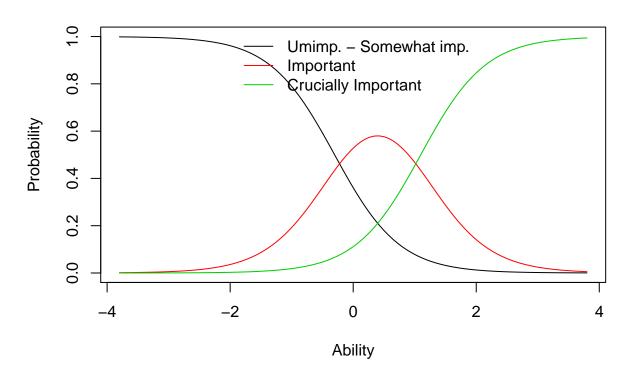




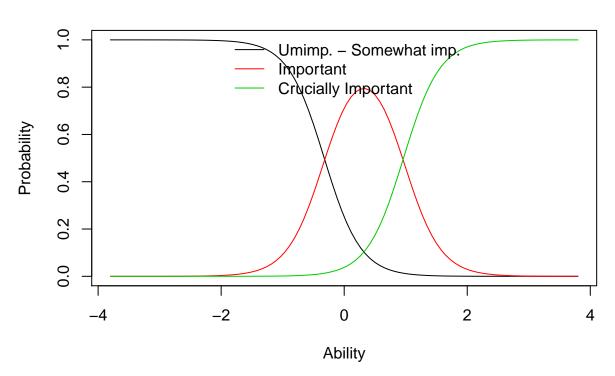
 $\label{eq:continuous} \mbox{Joining, by = c("LearnedGrowingUp", "PastRelationships", "GetAlongParents", "FriendshipsAreLikerationships", "GetAlongParents", "GetAlongParents", "FriendshipsAreLikerationships", "GetAlongParents", "GetAlong$

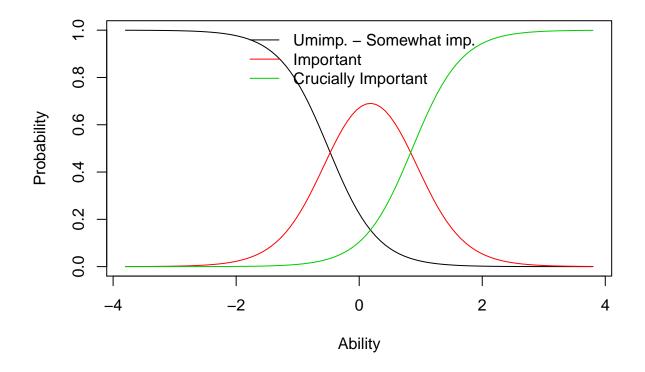
7.7 BRA Pre

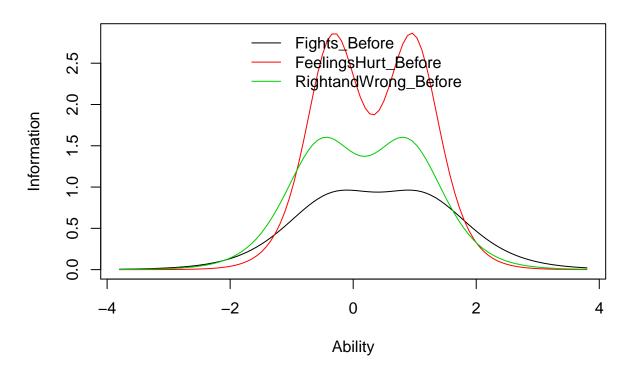
Item Response Category Characteristic Curves – Item: Fights_Before

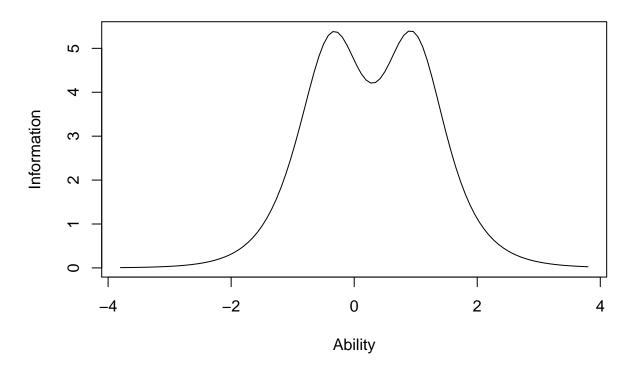


Item Response Category Characteristic Curves – Item: FeelingsHurt_Before





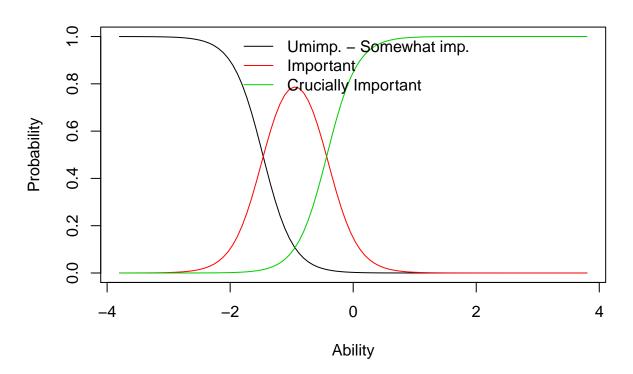




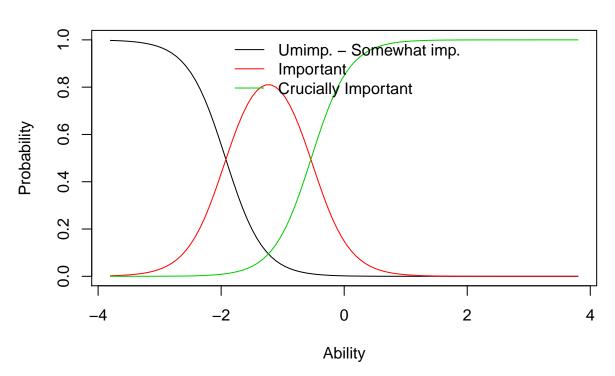
Joining, by = c("Fights_Before", "FeelingsHurt_Before", "RightandWrong_Before")

7.8 BRA Post

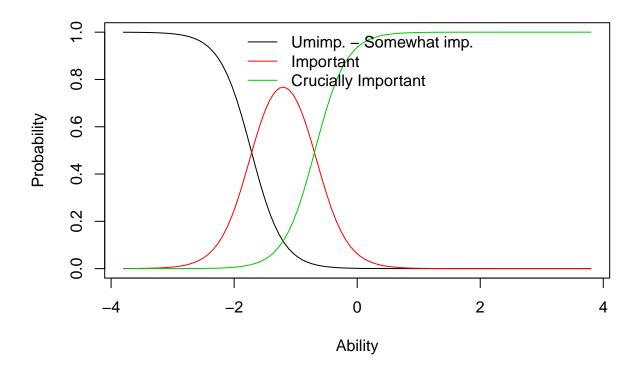
Item Response Category Characteristic Curves – Item: Fights

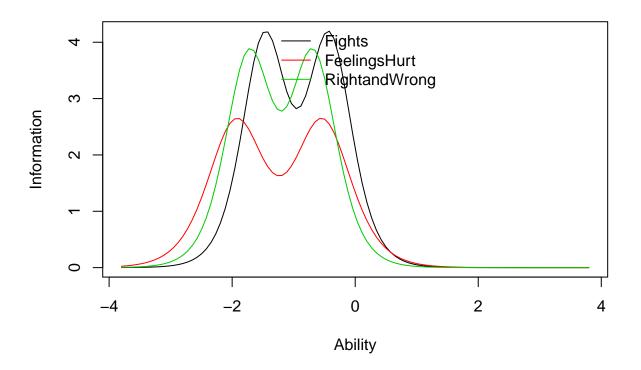


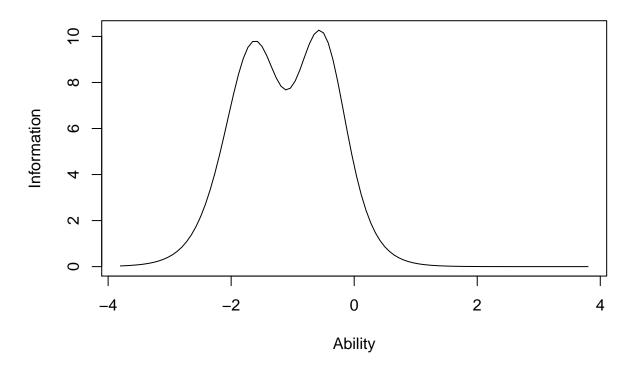
Item Response Category Characteristic Curves – Item: FeelingsHurt



Item Response Category Characteristic Curves – Item: RightandWrong







Joining, by = c("Fights", "FeelingsHurt", "RightandWrong")