



Technical Report

Parent Wave 2

General Health Questionnaire (GHQ-12)

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|-------------------------------|---|
| Source/Developer | <p>Goldberg, D. P. (1978). The 12-item General Health Questionnaire (GHQ-12). Windsor: NFER-Nelson</p> <p>Goldberg, D. P., Hillier, V.F. (1979). A scaled version of the General Health Questionnaire. <i>Psychological Medicine</i>, 9 (1), 139-45</p> <p>Vieweg, B. W., & Hedlund, J.L. (1983). The General Health Questionnaire (GHQ): A comprehensive review. <i>Journal of Operational Psychiatry</i>, 14 (2), 74-81</p> <p>Goldberg, D. P., Oldehinkel, T., Ormel, J. (1998). Why GHQ threshold varies from one place to another. <i>Psychological Medicine</i> 28(4), 915-921.</p> |
| Adaptations | <ul style="list-style-type: none"> • Since the GHQ-12 uses two different answer scales and because interviewee's are handed answer cards, for the ease of administration the original item sequence was changed in such a way that the first six items can be answered with the first scale and the next six with the second scale. • Although the GHQ already exists in several of z-proso's target languages, it has been retranslated for the purpose of the study. Accordingly, there may be some discrepancies between our and the original translation. |
| Description | A brief assessment of maternal depression. |
| Number of Items | 12 |
| Response Categories | 4-point Likert scale (from "better than usual"/"not at all" to "much less than usual"/"much more than usual") |
| Item Example | "Have you recently felt that you are playing a useful part in things?" |
| Administration History | Wave 2 |

General Health Questionnaire Scale – Subscale “GHQ-Resources”

- Variable Values**
- 4-point Likert scale
 - 1- more/better than usual
 - 2- same as usual
 - 3- less than
 - 4- much less than usual

 - 7- Does not apply (*MISSING*)
 - 8- Don't know/ Can't remember (*MISSING*)
 - 9- No answer/ Answer refused (*MISSING*)

Variable Wording & Case Summary

| Variable Name | Label | Wording | Missings (%) |
|---------------|-----------------|---|--------------|
| P2_8010 | GHQ-Resources 1 | Have you recently been able to concentrate on whatever you are doing? | 2 (0.2%) |
| P2_8020 | GHQ-Resources 2 | Have you recently felt that you are playing a useful part in things? | 7 (0.6%) |
| P2_8030 | GHQ-Resources 3 | Have you recently felt capable of making decisions about things? | 7 (0.6%) |
| P2_8040 | GHQ-Resources 4 | Have you recently been able to enjoy your normal day-to-day activities? | 5 (0.4%) |
| P2_8050 | GHQ-Resources 5 | Have you recently been able to face up to your problems? | 9 (0.8%) |
| P2_8060 | GHQ-Resources 6 | Have you recently been feeling reasonably happy, all things considered? | 7 (0.6%) |

Total N = 1190

Descriptive Statistics

| Variable Name | Label | Mean | Standard Deviation | Min. | Max. | Skewness | Kurtosis | Item-Scale Correlation | α If Item Removed ($\alpha = .684$) |
|---------------|-----------------|------|--------------------|------|------|----------|----------|------------------------|--|
| P2_8010 | GHQ-Resources 1 | 2.05 | .547 | 1 | 4 | .743 | 2.67 | .404 | .646 |
| P2_8020 | GHQ-Resources 2 | 1.85 | .488 | 1 | 4 | -.158 | 1.57 | .277 | .683 |
| P2_8030 | GHQ-Resources 3 | 1.88 | .496 | 1 | 4 | .043 | 2.19 | .424 | .642 |
| P2_8040 | GHQ-Resources 4 | 1.99 | .623 | 1 | 4 | .382 | .811 | .514 | .606 |
| P2_8050 | GHQ-Resources 5 | 1.89 | .534 | 1 | 4 | .239 | 1.87 | .362 | .659 |
| P2_8060 | GHQ-Resources 6 | 1.96 | .665 | 1 | 4 | .647 | 1.22 | .503 | .610 |

Sum Index Descriptive Statistics

GHQ-Resources Subscale (P2_GHQ_pos)

| Group | N | Mean | Standard Deviation | Min. | Max. | Skewness | Kurtosis | ANOVA | | |
|------------------|-------|-------|--------------------|------|------|----------|----------|-------|------|------|
| | | | | | | | | df | F | p |
| Full sample | 1,186 | .938 | .351 | .000 | 2.83 | .403 | 2.74 | | | |
| Gender | | | | | | | | 1 | .095 | .758 |
| Girls | 567 | .935 | .363 | .000 | 2.50 | .324 | 1.80 | | | |
| Boys | 619 | .941 | .339 | .000 | 2.83 | .497 | 3.84 | | | |
| Treatment | | | | | | | | 3 | .004 | 1.00 |
| Control | 315 | .938 | .340 | .000 | 2.17 | -.021 | 1.51 | | | |
| Triple P | 283 | .940 | .338 | .000 | 2.00 | .288 | 1.56 | | | |
| PATHS | 333 | .938 | .364 | .000 | 2.83 | .842 | 4.17 | | | |
| Combination | 255 | .936 | .362 | .000 | 2.50 | .368 | 3.10 | | | |
| Language | | | | | | | | 8 | 1.28 | .247 |
| German | 795 | .928 | .360 | .000 | 2.83 | .430 | 2.65 | | | |
| Albanian | 69 | .908 | .394 | .000 | 2.50 | 1.13 | 3.88 | | | |
| Bos./Cro./ Serb. | 85 | 1.039 | .315 | .167 | 2.17 | .999 | 3.66 | | | |
| English | 18 | .935 | .461 | .000 | 2.00 | .137 | 1.28 | | | |
| Italian | 17 | .882 | .219 | .167 | 1.00 | -2.50 | 7.06 | | | |
| Portuguese | 70 | .964 | .258 | .167 | 1.50 | -.736 | 1.57 | | | |
| Spanish | 46 | .928 | .331 | .000 | 1.83 | .015 | .957 | | | |
| Tamil | 48 | .915 | .279 | .000 | 1.40 | -1.28 | 2.31 | | | |
| Turkish | 38 | .996 | .367 | .000 | 2.00 | .325 | 2.18 | | | |

Comments:

- 1) The scale has been constructed by taking the average of all the variables. The maximum number of missing values allowed was 2. For the purpose of rescaling, 1 has been subtracted from the total scale.
- 2) ANOVA yielded no significant results for the gender groups ($F(1,1184) = .095, p > .05$), the treatment groups ($F(3,1182) = .004, p > .05$) and the

language groups ($F(8,1177) = 1.28, p > .05$).

Correlations with Subscales & DVs

GHQ-Resources Subscale (P2_GHQ_pos)

| Variable | r | Full Sample P2 | N | r | Girls P2 | N | r | Boys P2 | N |
|--------------|-------|----------------|------|-------|----------|-----|-------|---------|-----|
| Subscales | | | | | | | | | |
| GHQ-Deficits | .462 | *** | 1182 | .504 | *** | 564 | .420 | *** | 618 |
| Parent SBQ | | | | | | | | | |
| Aggression | .040 | ns | 1184 | .043 | ns | 566 | .036 | ns | 618 |
| Prosociality | -.093 | ** | 1182 | -.147 | *** | 563 | -.047 | ns | 619 |
| Teacher SBQ | | | | | | | | | |
| Aggression | .041 | ns | 1157 | -.022 | ns | 553 | .090 | * | 604 |
| Prosociality | .054 | ns | 1158 | .091 | * | 554 | .028 | ns | 604 |
| Child SBQ | | | | | | | | | |
| Aggression | .012 | ns | 1172 | -.035 | ns | 558 | .048 | ns | 614 |
| Prosociality | .030 | ns | 1172 | .038 | ns | 558 | .027 | ns | 614 |

1 *** $p < .001$, ** $p < .01$, * $p < .05$, ns $p > .05$

Comments : The GHQ-Resources subscale has a substantial and positive correlation with the GHQ-Deficit subscale, pointing to low divergent validity. The subscale also does not have much association with any measures of child aggression and prosociality. Overall, the subscale yields very low predictive validity.

General Health Questionnaire Scale – Subscale “GHQ-Deficits”

- Variable Values**
- 4-point Likert scale
 - 1- not at all
 - 2- no more than usual
 - 3- rather more than usual
 - 4- much more than usual

 - 7- Does not apply (*MISSING*)
 - 8- Don't know/ Can't remember (*MISSING*)
 - 9- No answer/ Answer refused (*MISSING*)

Variable Wording & Case Summary

| Variable Name | Label | Wording | Missings (%) |
|---------------|----------------|--|--------------|
| P2_8070 | GHQ-Deficits 1 | Have you recently lost much sleep over worry? | 14 (1.2%) |
| P2_8080 | GHQ-Deficits 2 | Have you recently felt constantly under strain? | 7 (0.6%) |
| P2_8090 | GHQ-Deficits 3 | Have you recently felt you could not overcome your difficulties? | 8 (0.7%) |
| P2_8100 | GHQ-Deficits 4 | Have you recently been feeling unhappy or depressed? | 6 (0.5%) |
| P2_8110 | GHQ-Deficits 5 | Have you recently been losing confidence in yourself? | 8 (0.7%) |
| P2_8120 | GHQ-Deficits 6 | Have you recently been thinking of yourself as a worthless person? | 10 (0.8%) |

Total N = 1190

Descriptive Statistics

| Variable Name | Label | Mean | Standard Deviation | Min. | Max. | Skewness | Kurtosis | Item-Scale Correlation | α If Item Removed ($\alpha = .809$) |
|---------------|----------------|------|--------------------|------|------|----------|----------|------------------------|--|
| P2_8070 | GHQ-Deficits 1 | 1.80 | .854 | 1 | 4 | .793 | -.216 | .513 | .795 |
| P2_8080 | GHQ-Deficits 2 | 1.99 | .859 | 1 | 4 | .442 | -.634 | .564 | .782 |
| P2_8090 | GHQ-Deficits 3 | 1.64 | .725 | 1 | 4 | .914 | .353 | .661 | .759 |
| P2_8100 | GHQ-Deficits 4 | 1.71 | .826 | 1 | 4 | .951 | .125 | .673 | .753 |
| P2_8110 | GHQ-Deficits 5 | 1.37 | .643 | 1 | 4 | 1.80 | 2.95 | .590 | .776 |
| P2_8120 | GHQ-Deficits 6 | 1.24 | .531 | 1 | 4 | 2.44 | 6.11 | .454 | .803 |

Sum Index Descriptive Statistics

GHQ-Deficits Subscale (P2_GHQ_neg)

| Group | N | Mean | Standard Deviation | Min. | Max. | Skewness | Kurtosis | ANOVA | | |
|------------------|-------|------|--------------------|------|------|----------|----------|-------|------|------|
| | | | | | | | | df | F | p |
| Full sample | 1,183 | .624 | .538 | .000 | 3.00 | 1.05 | 1.17 | | | |
| Gender | | | | | | | | 1 | .645 | .422 |
| Girls | 564 | .637 | .545 | .000 | 2.67 | 1.06 | 1.12 | | | |
| Boys | 619 | .612 | .532 | .000 | 3.00 | 1.04 | 1.22 | | | |
| Treatment | | | | | | | | 3 | .298 | .827 |
| Control | 314 | .637 | .533 | .000 | 3.00 | 1.00 | 1.28 | | | |
| Triple P | 283 | .627 | .531 | .000 | 2.80 | .953 | .831 | | | |
| PATHS | 332 | .631 | .516 | .000 | 2.67 | 1.01 | 1.13 | | | |
| Combination | 254 | .597 | .582 | .000 | 2.67 | 1.24 | 1.44 | | | |
| Language | | | | | | | | 8 | 3.24 | .001 |
| German | 796 | .636 | .531 | .000 | 3.00 | 1.09 | 1.33 | | | |
| Albanian | 69 | .725 | .635 | .000 | 2.80 | 1.13 | 1.45 | | | |
| Bos./Cro./ Serb. | 85 | .555 | .613 | .000 | 2.67 | 1.28 | 1.05 | | | |
| English | 18 | .852 | .296 | .167 | 1.50 | -.399 | 1.66 | | | |
| Italian | 17 | .543 | .307 | .167 | 1.33 | 1.07 | 1.16 | | | |
| Portuguese | 69 | .490 | .482 | .000 | 1.83 | .767 | -.328 | | | |
| Spanish | 44 | .818 | .529 | .000 | 2.00 | .364 | -.344 | | | |
| Tamil | 48 | .421 | .412 | .000 | 1.17 | .463 | -1.17 | | | |
| Turkish | 37 | .541 | .614 | .000 | 2.17 | .978 | .198 | | | |

Comments:

1) The scale has been constructed by taking the average of all the variables. The maximum number of missing values allowed was 2. For the purpose of rescaling, 1 has been subtracted from the total scale.

2) The results of the ANOVA are significant for the language groups ($F(8,1174) = 3.24, p < .01$). ANOVA yielded no significant results for either the gender groups ($F(1,1181) = .645, p > .05$) or the treatment groups ($F(3,1179) = .298, p > .05$).

Correlations with Subscales & DVs *GHQ-Deficits Subscale (P2_GHQ_neg)*

| Variable | r | Full Sample P2 | N | r | Girls P2 | N | r | Boys P2 | N |
|----------------------|-------|----------------|------|-------|----------|-----|-------|---------|-----|
| Subscales | | | | | | | | | |
| <i>GHQ-Resources</i> | .462 | *** | 1182 | .504 | *** | 564 | .420 | *** | 618 |
| Parent SBQ | | | | | | | | | |
| <i>Aggression</i> | .197 | *** | 1181 | .186 | *** | 563 | .215 | *** | 618 |
| <i>Prosociality</i> | -.092 | ** | 1180 | -.092 | * | 561 | -.103 | * | 619 |
| Teacher SBQ | | | | | | | | | |
| <i>Aggression</i> | .040 | ns | 1154 | .033 | ns | 550 | .053 | ns | 604 |
| <i>Prosociality</i> | -.040 | ns | 1155 | -.059 | ns | 551 | -.041 | ns | 604 |
| Child SBQ | | | | | | | | | |
| <i>Aggression</i> | .040 | ns | 1169 | .002 | ns | 555 | .074 | ns | 614 |
| <i>Prosociality</i> | .019 | ns | 1169 | .035 | ns | 555 | .002 | ns | 614 |

¹ *** $p < .001$, ** $p < .01$, * $p < .05$, ns $p > .05$

Comments : The GHQ-Deficits subscale has a substantial and positive correlation with the GHQ-Resources subscale, pointing to low divergent validity. The subscale does not have any significant correlation with any of the child aggression/prosociality measures, except for the parent-reports. Overall, the subscale yields very low predictive validity.