

| | , |
|-----------------------------|--|
| Title | The effects of positive psychology interventions in Arab countries: A systematic review. |
| Authors | Basurrah, Asma A.;Di Blasi, Zelda;Lambert, Louise;Murphy, Mike;Warren, Meg A.;Setti, Annalisa;Al-Haj Baddar, Mohammed;Shrestha, Topaz |
| Publication date | 2022-07-20 |
| Original Citation | Basurrah, A. A., Di Blasi, Z., Lambert, L., Murphy, M., Warren, M. A., Setti, A., Al-Haj Baddar, M., and Shrestha, T. (2022) 'The effects of positive psychology interventions in Arab countries: A systematic review', Applied Psychology: Health and Well-Being, (19 pp). doi: 10.1111/aphw.12391 |
| Type of publication | Article (peer-reviewed) |
| Link to publisher's version | https://doi.org/10.1111/aphw.12391 - 10.1111/aphw.12391 |
| Rights | © 2022 The Authors. Applied Psychology: Health and Well-Being published by John Wiley & Sons Ltd on behalf of International Association of Applied Psychology. This is an open access article under the terms of the Creative Commons Attribution License, which permits use, distribution and reproduction in any medium, provided the original work is properly cited https://creativecommons.org/licenses/by/4.0/ |
| Download date | 2024-05-06 18:08:49 |
| Item downloaded from | https://hdl.handle.net/10468/13406 |



Supplementary Table 1: 1a, 1b, 1c, 1d, 1e, 1f

Characteristics of included studies

| First author/ vear/ | Design | sample | Intervention | Delivery | Control group | Sessions, duration | Follow up | Sample size (post) | Mean age/ SD | % Female | Retention Rate (post) | Main findings |
|--|--------|--|---|----------------------|------------------|-----------------------|--------------|--------------------------|--------------------|-------------|--------------------------|---|
| country | | | | | | | | • / | | | | |
| Abu As'ad, 2017, Jordan | QE | Middle school students with broken families | MPPI (empowerment) | Group | NI | 20, 10w | - | E= 32 C= 32 | 14.4 (2.1) | 50% | 100% | Significant mean differences in life satisfaction $(p < 0.01)$ between the mean scores of the experimental and control groups |
| Abu Ghali, 2017, Palestine | RCT | Female school students from broken families | MPPI (Resilience) | Group | NI | 18, 8w | 2m | E= 14 C= 14 | 16.5 (0.8) | 100% | 100% | Significant differences between the experimental and control groups in stress and resilience scores (p $<$ 0.01). This improvement was maintained for 2 months follow-up |
| Al-Eroud, 2018, Jordan | RCT | Nurses | MPPI (Resilience) | Group | NI | 16, 8w | 1m | E= 12 C= 12 | - | 100% | 100% | Significant differences in the man scores of psychological hardness ($p = 0.003$) between the experimental and control groups, maintained at one month |
| Al- Fangari, 2008, Egypt | QE | University students | MPPI | Group | NI | 13, 4w | 2m | E= 15 C= 15 | 20.8 (1.2) | 47% | 100% | Significant mean differences in future anxiety ($p < 0.01$) between the mean scores of the experimental and control groups, maintained at 2 months follow-up |
| Al- Farajani, 2019, Libya | QE | Female secondary school students | Optimism | Group | NI | 30 | 2m | E= 30 C= 30 | 17.1 (0.3) | 100% | 100% | Significant mean differences in psychological resilience ($p < 0.01$) between the mean scores of the experimental and control groups, maintained at 2 months follow-up |
| Al-Ghalib, 2018, Saudi Arabia | RCT | Female university students | The mindful Jeddah training program | Group/ self- help | AC | 3, 3w | - | E= 10 C= 16 | - | 100% | 43% | Due to the small sample, no significant differences were found. A comparison of the mean scores of the pretest and posttest for the experimental group showed that wellbeing marginally increased while anxiety, depression and stress slightly decreased. The experimental group experienced a significant increase in life satisfaction from the pretest to the posttest $(p = 0.02)$ |

| | | | Table 1b. Cha | racteristics (| of included s | studies exan | ining the | effect of PP | Is from A | rab count | ries | |
|---|--------|---|--|-----------------------|------------------|-----------------------|--------------|--------------------------|--------------------|-------------|--------------------------|---|
| First author/ year/ country | Design | sample | Intervention | Delivery | Control group | Sessions, duration | Follow up | Sample size (post) | Mean age/ SD | % Female | Retention Rate (post) | Main findings |
| Al-Hattab, 2017, Jordan | QE | Injured Military | МРРІ | Group | NI | 14, 7w | - | E= 20 C= 20 | - | 3% | 100% | There were significant differences between the experimental and control groups in reducing anxiety and depression and improving quality of life (p = 0.05) |
| Al-Kfouri, 2019, Egypt | QE | University students mistreated in their childhood | Positive thinking | Group | NI | 33, 11w | - | E= 10 C= 10 | 18-20 | - | 100% | Significant effects of positive thinking intervention in improving psychological hardness ($p < 0.01$) |
| Al- khatatneh, 2019, Jordan | QE | University students | Mindfulness | Group | NI | 8, 4w | - | E = 64 C = 64 | 19-21 | 50% | 100% | Mindfulness intervention decreased significantly stress ($p < 0.01$) |
| Al- Khateeb, 2019, Jordan | RCT | University students | MPPI (PERMA) | Group | NI | 12, 6w | 6w | E = 16 $C = 16$ | - | - | 100% | Significant effects on increasing psychological hardness and reducing stress ($p=0.05$). This improvement maintained at 6 weeks follow-up |
| Al–Menshawi, 2021, Jordan | QE | Female depressed cancer patients | МРРІ | Group | NI | 14, 7w | | E = 15 C = 15 | 30-50 | 100% | 100% | Significant differences between the mean scores of the experimental and control groups in depression ($p < 0.05$) |
| Al- Rashidi, 2018, Saudi Arabia | RCT | Addicted adults | PPT (Transcendental meditation - mindfulness) | Group / Individual | NI | 16, 6w | 7w | E = 16 C = 16 | 19-60 | 0% | 100% | Significant differences between the mean scores of the experimental and control groups in stress ($p < 0.01$), maintained at seven-week follow-up |
| Al- Salmouni, 2016, Egypt | QE | Elderly | MPPI (Happiness) | Group | NI | 24, 12w | 2m | E = 10 $C = 10$ | - | - | 100% | MPPI increased happiness ($p < 0.001$). This improvement maintained at 2 months follow-up |

| First author/ year/ country | Design | sample | Intervention | Delivery | Control group | Sessions, duration | Follow up | Sample size (post) | Mean age/ SD | % Female | Retention Rate (post) | Main findings |
|---------------------------------------|--------|---|------------------------------|----------------------|------------------|-----------------------|--------------|--------------------------|--------------------|-------------|--------------------------|--|
| Al- Sanabani, 2014, Yemen | QE | Children diagnosed with diabetes mellitus | PPT (Quality of life) | Group | NI | 13, 11w | 10w, 20w | E = 8 C = 8 | - | 69% | 100% | Significant mean differences in quality of life, happiness ($p = 0.02$), and life satisfaction ($p < 0.01$) between the mean scores of the experimental and control groups |
| Al- Walani, 2016, Libya | QE | Female university students | MPPI (Happiness) | Group | NI | 30, 10w | - | E = 30 C = 30 | 19.7 (1.2) | 100% | 100% | There were statistically significant differences in happiness and quality of life scores between the experimental and control groups ($p < 0.01$) |
| Alzoghby, 2017, Egypt | QE | University female students with learning disabilities | MPPI (Resilience) | Group | NI | - | - | E = 30 C = 30 | 20.8 (2.6) | 100% | 100% | There were statistically significant mean differences in vocational Future Anxiety between the mean scores of the experimental and control groups $(p < 0.01)$ |
| Ammar, 2016, Egypt | QE | High school students | MPPI | Group | NI | 13, 13w | 1m | E = 20 C = 20 | 15.4 (0.3) | 50% | 100% | PPIs increased participants level of life satisfaction, happiness and positivity ($p < 001$), maintained at a one-month follow-up. |
| Awad, 2019, Egypt | QE | University students | Mindfulness (MBSR) | Group | NI | 16, 6w | 1m | E = 25 C = 25 | 19.7 (1.0) | 60% | 100% | Statistically significant differences between the experimental and control groups in psychological resilience ($p < 0.01$), maintained at a one-month follow-up |
| Basurrah, 2020, Saudi Arabia | RCT | Healthy adults/ elderly | Using signature strengths | Self-help: online | NI | 7, 1w | - | E = 17 $E = 18$ $C = 44$ | 28.5 (9.9) | 78% | 21% | Participants in all groups showed an increase in happiness ($p=0.004$) and a decreased in depression ($p<0.001$) from pre-intervention to post-intervention. A marginal significant difference ($p=0.06$) was found between the experimental and control groups in happiness, with participants in the reminder group had the greatest increase. No significant effects on depression. |
| Bin Shaban, 2016, Libya | QE | Primary school students | Positive thinking | Group | NI | 37,18- 19w | - | E = 30 $C = 30$ | 9.2 (0.6) | 50% | 100% | Significant differences between the happiness scores of the experimental and control groups (p < 0.01) |

| | | | Table 1d. Cha | racteristics (| of included | studies exam | ining the | effect of PP | Is from A | rab count | ries | |
|--------------------------------------|--------|---|--|----------------------|------------------|-----------------------|--------------|--------------------------|--------------------|-------------|--------------------------|--|
| First author/ year/ country | Design | sample | Intervention | Delivery | Control group | Sessions, duration | Follow up | Sample size (post) | Mean age/ SD | % Female | Retention Rate (post) | Main findings |
| Chérif, 2020, Tunisia | RCT | University students | Strengths-based intervention | Self-help: online | AC | 24, 3-4w | 1m | E = 40 C = 35 | 34.6 (7.8) | 69% | 83% | No significant group differences in happiness after the intervention but on the one-month follow-up ($p < 0.001$) |
| Elaiwah, 2017, Egypt | QE | University students | Self-compassion | Group | NI | 30, 10w | 2m | E = 10 C = 10 | 20.7 (1.3) | - | 100% | Self-compassion increased psychological resilience ($p < 0.01$). Maintained at 2 months follow-up |
| Eldabee, 2021, Saudi Arabia | QE | University students | Self-compassion | Group: online | NI | 10, 4w | 1m | E = 7 C = 6 | 20.3 (1.0) | 0% | 100% | Self-compassion decreased anxiety ($p < 0.01$), maintained at one month follow-up |
| Haddad, 2014, Jordan | QE | 10 grade female students | Positive thinking | Group | NI | 12, 4w | 6w | E = 30 C = 30 | - | 100% | 100% | Significant differences between the mean scores of the experimental and control groups in test anxiety $(p=0.05)$ also maintained at 6 weeks follow-up |
| Hanour, 2019, Egypt | QE | Mothers of children with autism spectrum | MPPI (Resilience) | Group | NI | 29 | 2m | E = 5 C = 5 | 29.7 (4.9) | 100% | 100% | The effectiveness of the programme improved resilience ($p < 0.01$), maintained at 2 months follow-up |
| Hemeda, 2017, Egypt | QE | Secondary students | MPPI (Social-emotional competence) | Group | NI | 21, 11w | 1m | E = 32 C = 32 | 15.4 (1.2) | 59% | 100% | Significant differences in the psychological resilience scores ($p < 0.01$) of the experimental and control groups, maintained at one month |
| Issa, 2019, Egypt | QE | Secondary grade students | MPPI (Positive education) | Group | NI | 16, 8w | - | E = 41 $C = 40$ | 17.3 | 50% | 100% | There were statistically significant differences between the mean scores of the experimental and control groups in future anxiety and quality of life ($p < 0.01$) |
| Khlef, 2021, Iraq | QE | Parents of autistic children | Positive thinking | Group | NI | 13 | 2m | E = 10 C = 10 | 25-45 | - | 100% | Significant group differences in future anxiety scores ($p<0.0001$), maintained at 2 months follow-up (($p<0.01$) |

| | | | Table 1e. Cha | racteristics (| of included s | studies exam | ining the o | effect of PP | Is from A | rab count | ries | |
|---|--------|--|---|----------------------|------------------|-----------------------|--------------|--------------------------|--------------------|-------------|--------------------------|--|
| First author/ year/ country | Design | sample | Intervention | Delivery | Control group | Sessions, duration | Follow up | Sample size (post) | Mean age/ SD | % Female | Retention Rate (post) | Main findings |
| Krifa, 2022, Tunisia | RCT | University healthcare students | MPPI (The CARE programme) | Self-help: online | WL | 8, 8w | 3m | E = 159 C = 165 | 20.7 (1.6) | 94% | 89% | Significant reduction in stress, anxiety, and depression (p < 0.01) and significant increase in wellbeing (p < 0.01) in the experimental group, also maintained at 3 months follow-up |
| Lambert Study 1, 2019, Kuwait | QE | University students | МРРІ | Group | NI | 8, 8w | - | E = 133 C = 77 | 20.9 (2.6) | 94% | 59% | Significant group differences in flourishing ($p = 0.02$). No significant effect on life satisfaction and positive and negative effects |
| Lambert Study 2, 2019, Kuwait | QE | High school students | МРРІ | Group | NI | 8, 8w | - | E = 833 C = 237 | 16.7 (0.7) | 57% | 79% | Significant group differences in flourishing ($p = 0.03$) and positive affect (hedonic wellbeing; $p < 0.001$). No significant effect on life satisfaction and negative effect |
| Lambert, 2021, United Arab Emirates | QE | University students | MPPI | Group | NI | 6, 6w | 3m | E = 70 C = 50 | - | 78% | 42% | Participants who received the intervention reported more positive emotions over time relative to a control group ($p < 0.05$). No significant effect was found on life satisfaction or perceived stress. |
| Mansour, 2016, Egypt | QE | Deaf adolescent girls | Psychological support for positive traits | Group | NI | - | 2m | E = 15 C = 15 | 14-19 | 100% | 100% | The study found that after the programme, the experimental group showed a significant improvement in reducing future anxiety ($p < 0.001$) |
| Mohammad , 2015, Egypt | QE | Mothers of mentally disabled children | Positive thinking | Group | NI | - | 2m | E = 12 $C = 12$ | 34.6 (2.6) | 100% | 100% | Participants who received the positive thinking intervention reported reduced stress ($p < 0.0001$), also maintained at 2 months follow-up |
| Mohammed , 2014, Saudi Arabia | QE | Female university students | Positive thinking | Group | NI | 8, 4w | - | E = 40 $C = 40$ | - | 100% | 100% | There were statistically significant differences between the mean scores of the experimental and control groups in quality of life $(p < 0.01)$ |
| Ramadan, 2014, Egypt | RCT | University students | MPPI (Wellbeing) | Group | NI | 12, 12w | 2m | E = 30 $C = 30$ | 21.4 (1.2) | 92% | 100% | Participants in MPPI group reported significant improvement in life satisfaction ($p < 0.01$) also at 2 months follow-up |

| | | | Table 1f. Ch | aracteristics of | of included | studies exan | aining the | effect of PP | Is from / | Arab count | tries | |
|--------------------------------------|--------|---------------------------------------|-----------------------|---------------------------|------------------|-----------------------|--------------|--------------------------|--------------------|-------------|--------------------------|---|
| First author/ year/ country | Design | sample | Intervention | Delivery | Control group | Sessions, duration | Follow up | Sample size (post) | Mean age/ SD | % Female | Retention Rate (post) | Main findings |
| Ramadan, 2017, Egypt | QE | Gifted secondary students | MPPI (Wisdom) | Group | NI | 25 | 6w | E = 21 C = 23 | 17 (0.1) | 61% | 100% | There were statistically significant differences in psychological resilience between the experimental and control groups ($p < 0.01$). This maintained at 6 weeks follow-up |
| Rayan, 2016, Jordan | RCT | Parents of children with autism | Mindfulness | Individual / Self-help | NI | 5, 5w | - | E = 52 C = 52 | 36.2 (8.5) | 70% | 87% | Intervention group demonstrated significant improvements in psychological health domain and social health domain of quality of life, and positive stress appraisal ($p < 0.01$). The control group demonstrated improvement in the measure of the dependent variables with a small effect size. |
| Rayan, 2017, Jordan | RCT | Parents of children with autism | Mindfulness | Individual / Self-help | NI | 5, 5w | - | E = 52 $C = 52$ | 36.2 (8.5) | 70% | 87% | Intervention group demonstrated significant improvements in stress, anxiety, and depression scores with medium to large effect size $(p < 0.01)$ while the control group showed improvement with much lower effect size |
| Soud, 2018, Saudi Arabia | QE | Female university students | МРРІ | Group | NI | 16 | 1m | E = 20 C = 20 | 20.4 (1.0) | 100% | 100% | Significant differences in the positivity ($p = 0.047$) and anxiety scores ($p < 0.000$) of the experimental and control groups, but no significant effects on depression ($p = 0.166$). Levels of positivity and anxiety maintained at one month |
| Thomas, 2016, UAE | RCT | Female university students | Mindfulness (MBSR) | Group | WL | 10, 8w | - | E = 12 C = 12 | 21.2 (2.0) | 100% | 100% | Participants in the mindfulness group demonstrated significantly greater reductions in depression ($p < 0.03$) and stress ($p < 0.04$) compared with the control group |
| Zahran, 2015, Egypt | QE | Mothers of children with Autism | MPPI | Group | NI | 16, 6w | 1m | E = 8 C = 8 | 27-47 | 100% | 100% | The effectiveness of positive psychology programme in decreasing future anxiety ($p = 0.003$), also maintained at one month |
| Zaki, 2016, Egypt | QE | Female university students | Норе | Group | NI | 13, 6w | - | E = 26 $C = 26$ | 19.7 (0.7) | 100% | 100% | There were statistically significant differences in the psychological wellbeing scores of the participants in the experimental and control groups ($p < 0.001$) |
| Zaki, 2019, Egypt | QE | University students | Mindfulness | Group | NI | 22 | - | E = 27 $C = 27$ | 20.7 (0.7) | 74% | 100% | The effectiveness of mindfulness programme in enhancing academic resilience ($p < 0.001$) |