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Lighten UP! A community-based group intervention to promote psychological well-being in older adults

Elliot M. Friedman*, Chiara Ruini*, Renee Foy†, LaVerne Jaros‡, Hellen Sampson§ and Carol D. Ryff∥

‡Department of Human Development and Family Studies, Purdue University, West Lafayette, IN, USA; †Department of Psychology, University of Bologna, Bologna, Italy; §Aging and Disability Resource Center of Kenosha County, WI, USA; ∥Institute on Aging and Department of Psychology, University of Wisconsin-Madison, Madison, WI, USA

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Objectives: Aging is often characterized by declines in physical and mental health and increased risk for depression and social isolation. A protective factor that has been found to effectively moderate these phenomena is psychological well-being. The aim of his study was to pilot test a novel group intervention (Lighten UP! program) for the promotion of psychological well-being in older adults living in the community.

Methods: Lighten UP! is an eight-week program consisting of 90-minute group session designed to teach participants to identify and savor positive experiences across multiple domains of eudaimonic well-being. It was delivered to a sample of 103 men and women aged 60 or over, that were assessed pre- and post-intervention with Ryff’s Psychological Well-being Scale (PWB), Life Satisfaction scale, Geriatric Depression Scale, Symptom Questionnaire, and items measuring sleep complaints and social well-being.

Results: At the end of the eight weeks, participants reported significantly increased PWB, life satisfaction, and social well-being along with lower levels of depression and fewer physical symptoms and sleep complaints. These gains were particularly robust for individuals with lower pre-program levels of PWB.

Conclusions: This pilot investigation suggests the feasibility of a short group program for enhancing well-being in older adults. Future controlled investigations with long-term follow-up assessment are needed to confirm the effectiveness and sustained benefits of the Lighten UP! program.

Keywords: psychological well-being; positive aging; group intervention; depression; positive psychotherapy

Introduction

Aging is characterized by declines in physical health and functional capacities and by the loss of significant roles and relationships, experiences that challenge quality of life. A protective factor that moderates the impact of these phenomena is psychological well-being. Both hedonic (positive affect and life satisfaction) and eudaimonic (pur-pose in life, positive social relations) aspects of well-being have been linked to better physical health and reduced biological risk of disease (Friedman & Ryff, 2012; Pressman & Cohen, 2005; Ryff, 2014; Steptoe, Dockray, & Wardle, 2009). Prospective studies with older samples have linked purpose in life to reduced subsequent risk of Alzheimer’s disease and cognitive impairment (Boyle, Buchman, Barnes, & Bennett, 2010), stroke (Kim, Sun, Park, & Peterson, 2013), myocardial infarction (Kim, Sun, Park, Kubzansky, & Peterson, 2013), and mortality (Boyle, Barnes, Buchman, & Bennett, 2009; Hill & Turiano, 2014). Greater purpose in life also predicts increased use of preventive health care practices and reduced likelihood of hospitalization (Kim, Strecher, & Ryff, 2014).

Increased these aspects of positive functioning in older adults and reduced depressive and anxiety symptoms (Proyer, Gander, Wellenzohn, & Ruch, 2014; Ramirez, Ortega, Chamorro, & Colmenero, 2014; Webster, Bohlmeijer, & Westerhof, 2014). However, to date no program guided by eudaimonic principles and designed to improve quality of life in older adults has been developed. Although related, hedonic and eudaimonic well-being are conceptually and empirically distinct (Keyes, Shmotkin, Deaton, 2010). Gana, Bailly, Saada, Joulain, and Alaphilippe (2013) documented an increasing trend of life satisfaction over an eight-year period, even when controlling for initial age, gender, education, and perceived health.

*Corresponding author. Email: Chiara.ruini@unibo.it

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Conversely, both cross-sectional and longitudinal studies confirm that purpose in life, personal growth, and other existential dimensions of well-being tend to decline from middle adulthood to older age (Ryff, 2014; Springer, Pudrovksa, & Hauser, 2011). Further, these declines represent important vulnerability factors for mental and physical health of older individuals (Friedman, 2012; Ryff, 2014; Wood & Joseph, 2010). The maintenance and/or promotion of eudaimonic well-being in aging individuals may thus be uniquely beneficial for older adults.

Therapeutic approaches based on eudaimonic well-being have been used successfully in clinical and educational settings. Patients with major depression who received well-being therapy (WBT), for example, were less likely to relapse up to six years after treatment compared to patients who received clinical management alone (Fava et al., 2004). WBT has also been applied successfully to patients with generalized anxiety disorder (Fava et al., 2005). A school-based protocol designed to teach children and adolescents about the importance of well-being demonstrated increases in eudaimonic well-being in a non-clinical sample (Ruini et al., 2010). In these prior investigations, a sequential combination of cognitive behavioral therapy (CBT) techniques was followed by specific strategies and homework assignments to tailor dimensions of eudaimonic well-being. This sequential approach successfully addressed the complex balance of positive and negative affects characterized by inverse correlations. As a result, changes in well-being may induce a decrease in distress, and vice versa (Ruini & Fava, 2014).

The primary aim of this study was to determine the feasibility of a community-based group intervention based on principles of eudaimonic well-being—the Lighten UP! program—and designed to promote psychological well-being in older adults. Given links between well-being and multiple aspects of physical and mental functioning (Diener, 2000; Steptoe, O’Donnell, Marmot, & Wardle, 2008), we also examined potential improvements in depression, life satisfaction, social well-being, physical symptoms, and sleep.

Method
This study was performed in collaboration with the Aging and Disability Resource Center (ADRC) of Kenosha County, Wisconsin. All aspects of the study were approved by the Health Sciences Institutional Review Board at the University of Wisconsin-Madison.

Men and women age 60 or over living independently in a Midwestern community in the US were referred by community service organizations (e.g. Meals on Wheels) and recruited using advertisements in local newspapers and informational flyers. Candidate participants (N = 134) were screened for severe cognitive impairment using the short form of the Mini Mental State Examination (Haubois et al., 2011) by a trained staff member from the Kenosha County ADRC who was not otherwise involved in the intervention. Candidates with a score of 3 or below were excluded. The screener explained the study’s aims and procedures, and candidate participants had to provide their written informed consent.

Protocol
The protocol is based on a school program developed by Ruini et al. (Ruini et al., 2009) aimed at promoting eudaimonic well-being in a critical life stage, such as adolescence. A team of experts in aging populations composed of academic researchers (Elliot Friedman (EF), Chiara Ruini (CR) and Carol D. Ryff (CDR)) and by nurses and social workers with consolidated experiences in working with older adults (LaVerne Jaros (LVJ), Renee Foy (RF) and Hellen Sampson (HS)) was supervised by one of the school program developers (CR) and created a protocol that maintained the same group format and the same sequential approach. It encompassed the use of self-observation in a structured diary, the use of psychoeducation and cognitive behavioral strategies, followed by a specific focus on dimensions of eudaimonic well-being. The protocol was adapted for older adults through the addition of age-appropriate exercises such as life review (Serrano, Latorre, Gatz, & Montanes, 2004). For example, the dimension of purpose in life, which was addressed in adolescents using techniques such as future goal planning, in older adults was adapted by asking participants to report past goal achievements and by sharing meaningful life experiences. Further, the Lighten UP! protocol contains two additional sessions (Sessions 6 and 8, see appendix) describing the trajectories of well-being along the lifespan and their benefits in terms of physical and mental health. These sessions were not included in the previous school program since literature concerning eudaimonic well-being in adolescence did not provide such evidence. The final Lighten UP! protocol was revised and discussed among the researchers and ADRC staff until final consensus was reached and a structured manual for group leaders was created. It encompasses eight 90-minute group sessions to be delivered once per week in community settings (e.g. senior centers; public libraries).

The program is designed to teach participants to identify and savor positive experiences across multiple domains of eudaimonic well-being (Ryff, 1989; Ryff & Keyes, 1995). They also learned and applied principles of CBT, such as identification of automatic thoughts and cognitive restructuring (Butler, Chapman, Forman, & Beck, 2006). The first classes focused on identifying positive experiences and introduced different conceptual domains of eudaimonic well-being. Later classes used CBT techniques to restore and sustain well-being (see supplemental materials for a week-by-week description). In-class activities were supported by at-home behavioral assignments and diaries in which participants recorded daily positive experiences and their reactions to them. Detailed description of Lighten UP! protocol is provided in the Appendix.

Participants were placed into groups of 12–15. Two staff members from the Kenosha ADRC who had received initial training and supervision by the protocol developers...
administered the protocol following the structured manual for group leaders. They were not involved in subsequent procedures and data analysis.

**Measures**

Before and after the program, participants completed self-administered questionnaires consisting of diverse measures of mental and physical health. The measures were selected because they have all been shown to have significant associations with health or well-being in older adults, and they have been widely used in previous research on aging populations as well as in interventions for promoting well-being. Questionnaires were distributed to participants by the group leaders and then collected and mailed to the research team where data were entered and analyzed. Reliability statistics for each instrument are from the study sample.

Eudaimonic well-being was assessed using the Ryff Psychological Well-Being (PWB) scales (Ryff, 1989; Ryff & Keyes, 1995), including subscales assessing environmental mastery, personal growth, purpose in life, positive relations with others, self-acceptance, and autonomy (seven statement items for each scale; response options were 1 = disagree strongly; 7 = agree strongly). Possible scores ranged from 7—49 with higher scores indicating greater well-being. Internal reliability was good (Cronbach’s α = .90). Subjective well-being was assessed by the Satisfaction with Life Scale (SWLS) (Kobau, Sniezek, Zack, Lucas, & Burns, 2010), a five-item scale that used the same seven response options as the PWB scales. Possible scores ranged from 5—35. Internal reliability was excellent (α = .92). Depression was assessed using the Geriatric Depression Scale (GDS) (Yesavage, 1986), a set of 15 questions requiring a ‘yes’ or ‘no’ response. ‘Yes’ responses were scored a ‘1’ and total score ranged from 0—15. Scores on the GDS were in-transformed to impose a normal distribution for analyses. Internal reliability was good (α = .86).

Social connectedness was assessed by the integration (three items) and contribution (three items) subscales from the Keyes Social Well-Being Scale (Keyes, 1998). Participants responded to statements about social well-being using the same seven response options. Internal reliability was .82 for the integration subscale and .65 for the contribution subscale.

The Kellner Symptom Questionnaire (Kellner, 1987) is a 92-item checklist of items grouped into four subscales—anxiety, depression, somatic symptoms, and hostility—each consisting of 23 items. Participants checked the box next to any emotion or feeling (e.g. ‘nervous,’ ‘feeling friendly’) they experienced during the prior week. Check marks were scored a ‘1’ (range was 0—23 for each scale). Internal reliabilities ranged from .71—.83.

Finally, respondents indicated how often they had trouble falling asleep, waking during the night, waking too early in the morning, and feeling unrested during the day (response options: 1 = never; 5 = almost always (four or more times per week)). Possible scores ranged from 4—20.

**Figure 1.** Lighten UP! flowchart.

Participants also completed a post-program qualitative survey with open-ended questions to evaluate their satisfaction and the quality of their experience during Lighten UP!

**Statistical analyses**

Repeated measures general linear models were used to estimate pre-post change in key outcome measures. Of the 103 participants who completed the pre-program assessments, 23 did not complete the post-program assessments. Data were analyzed according to intention-to-treat approaches. An alpha of .05 was the threshold for statistically significant change. The flow diagram for Lighten UP! is shown in Figure 1.

**Results**

No participant who completed the initial screening and was eligible for the study declined to start the first class, although not all participants completed the program. One hundred and three (103) people were consented for participation and started the program, and 88 (85.4%) completed at least five classes (our criterion for ‘completion’ for statistical analyses). Compared to those who attended fewer classes, those attending 5 or more rated their health better (2.7 vs. 2.3, p < .05; 1 = poor; 5 = excellent) but were comparable on other measures. Mean age for ‘completers’ was 71.7 (range: 59—97), 85% were women, 38.8% were married, and 40.8% had a college education or more. Twenty-five (25) people attended fewer than five classes (‘drop-outs’), and most of these attended only the first class. The majority of the drop-outs (n = 18) did not provide reasons for not attending, and they did not respond to our attempts to contact them. Five people withdrew for health reasons and one person stopped attending because of winter road conditions.

Descriptive statistics for the final sample are shown in Table 1.
Aggregate eudaimonic well-being increased significantly between pre- and post-program assessments ($F(1,102) = 15.83, p < .001$). Supplemental analyses showed significant increases in environmental mastery, personal growth, purpose in life, and self-acceptance; increases in autonomy and positive relations with others were also observed but were not statistically significant (see Figure 2). Finally, to determine whether gains in eudaimonic well-being varied depending on participants’ initial well-being levels, we stratified the sample by tertiles of pre-program PWB scores and estimated a separate model for each tertile. The results showed significant gains for participants in the bottom (8% increase; $\eta^2_{\text{partial}} = 0.23, P = .003$) and middle thirds (4% increase; $\eta^2_{\text{partial}} = 0.24, P = .003$), but no change for those in the top tertile.

Scores on the GDS decreased significantly ($F(1,98) = 34.54, p < .001$). Supplemental analyses showed significant declines in all three tertiles of GDS scores, although declines were more robust among participants in the middle ($\eta^2_{\text{partial}} = .43$) and top ($\eta^2_{\text{partial}} = .32$) tertiles compared to those in the lowest tertile ($\eta^2_{\text{partial}} = 0.10$).

Scores for anxiety ($F(1,101) = 12.19, P = .001$), depression ($F(1,101) = 11.65, P = .001$), hostility ($F(1,101) = 17.72, P < .001$), and somatic symptoms ($F(1,101) = 10.13, P = .002$) from the Symptom Questionnaire all declined significantly. Scores on the SWLS increased significantly albeit modestly ($F(1,99) = 12.19, P = .001$) as did scores on the social integration ($F(1,102) = 15.08, P < .001$) and social contribution ($F(1,101) = 5.26, P = .02$) dimensions of the Social Well-Being Scale. Finally, sleep complaints declined significantly ($F(1,101) = 6.12, P = .02$). Supplemental analyses showed that the frequency of having trouble getting to sleep ($P < .01$) and feeling unrested during the day ($P < .05$) both declined significantly, while awakenings at night or in the early morning did not change. Pre-post means and effect sizes for all key measures are shown in Table 2.

Finally, Table 3 displays example answers to the qualitative survey performed after the intervention.

**Discussion**

The results of this pilot study suggest that the Lighten UP! Program is a feasible intervention that yielded positive effects in promoting psychological well-being in older adults. Eudaimonic well-being as measured using the Ryff PWB scales increased significantly albeit modestly from before Lighten UP! to afterward. Although the lack of a control group hampers any definitive conclusions, supplemental analyses showed that the largest gains were made among those with lower PWB scores prior to the intervention. To provide some context for these relatively modest increases, recent longitudinal assessments of eudaimonic well-being in approximately 3900 middle aged and older adults over a 9–10 year period showed that individuals tend to have highly stable levels of well-being (Ryff, Radler, & Friedman, 2015). These results may have important implications, particularly for those with lower levels of eudaimonic well-being. Unlike hedonic well-being, which tends to increase with age (Gana et al., 2013; Stone et al., 2010), decline or stability in eudaimonic well-being in older adults appears to be the norm. For this reason, even modest increases in well-being may constitute significant improvements in quality of life. On this point, participants’ own perceptions of improvements in their quality of life—examples shown in Table 3—echo the results of the quantitative analyses and provide additional support for the perceived benefits of this new intervention.

In clinical settings, improvements on PWB through the use of WBT have been associated with lower relapse rates in patients with recurrent depression (Fava et al., 1998; Fava et al., 2004). Further, in school settings, eudaimonic well-being has been promoted through a specific group program that yielded benefits for anxiety and somatization which were maintained at 1 year follow up (Ruini et al., 2009). Even though the current pilot study lacks a controlled design, it replicates some of these prior findings and underscores the potential feasibility and utility of such interventions with older adults in community settings. Other positive psychology interventions tailored to older adults (Proyer et al., 2014; Ramirez et al., 2014) have been shown to increase life satisfaction, gratitude, forgiveness, and positive emotions. A critical question for these approaches as well as for Lighten UP! is how long these improvements last. Although most positive psychology interventions have shown benefits, such effects have tended to fade in the subsequent follow-up periods (Bolier et al., 2013; Seligman, Steen, Park, & Petersen, 2005). In contrast, previous interventions designed specifically to

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**Table 1.** Descriptive statistics.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Mean (SD) or %</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age</td>
<td>71.7 (7.7)</td>
<td>59–97</td>
</tr>
<tr>
<td>Sex (Female (%))</td>
<td>85.6</td>
<td></td>
</tr>
<tr>
<td>Married (%)</td>
<td>38.8</td>
<td></td>
</tr>
<tr>
<td>Educational Attainment (%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>High school or less</td>
<td>34.0</td>
<td></td>
</tr>
<tr>
<td>Some college</td>
<td>25.2</td>
<td></td>
</tr>
<tr>
<td>College or more</td>
<td>40.8</td>
<td></td>
</tr>
</tbody>
</table>

---

Figure 2. Modification of Eudaimonic well-being following Lighten UP! intervention.

Note to Figure 2: All changes were statistically significant at $P < .05$ except for Autonomy ($P = .19$) and Positive Relations with Others ($P = .07$).

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**Figure 2**
promote eudaimonic well-being have yielded beneficial effects lasting a year or longer (Fava et al., 2004; Ruini & Fava, 2009). These interventions consisted of a sequential administration of CBT techniques, followed by well-being enhancing psychotherapeutic strategies. Thus, the applications of multicomponent treatment modalities triggered a more complete and enduring recovery from affective disorders compared to the single administration of CBT (Fava et al., 2005), which was effective in reducing symptoms, but not in the specific promotion of eudaimonic well-being. Since Lighten UP! parallels the sequential administration of CBT and well-being enhancing strategies, it will be critical going forward to determine whether Lighten UP! will also have long-term benefits in older people compared to a control condition.

Beyond changes in eudaimonic well-being, there were improvements in multiple other domains. Most notably, scores on the GDS declined by more than 25%. Considering the naturalistic design and the absence of a control group, this decline could be due to casual variations in depressive symptoms. However, the average decrease here of 1.1 points is comparable to the average increase in GDS score (1.2 points) from a study of older adults who had recently lost a spouse (Vinkers, Gussekloo, Stek, Westendorp, & Van Der Mast, 2004), suggesting that the changes observed here may be more than what would be expected from natural variation. In addition, physical symptoms in all domains assessed by the Kellner SQ declined significantly, while life satisfaction and social well-being improved significantly. Finally, participants reported fewer sleep complaints overall with specific improvements in falling asleep at night and feeling rested during the day. It is important to note that data for participants who did not complete the post-program assessment were based on their pre-program responses, consistent with the intention-to-treat approach. Thus, improvements were detected in the context of this conservative analytical strategy.

Results are limited by the use of self-report measures, self-selection of participants, and limited follow-up. The absence of a control group also means that we cannot dismiss the possibility that pre-post differences may reflect either natural variability in the assessed measures or possible benefits of something about Lighten UP! other than the specific well-being component. Nonetheless, the findings are promising, with improvements across a wide range of physical and mental health assessments. To our knowledge, Lighten UP! is the first group intervention aimed at promoting eudaimonic well-being in people aged 60 and over. The current study demonstrates the perceived benefits of the Lighten UP! program and illustrate the feasibility of delivering such a program to older adults in community settings. Future randomized controlled studies, with a larger sample and a longitudinal design, are needed to test the efficacy of this new program and its

Table 2. Pre-post changes in key measures. Means and standard errors are shown.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Scale range</th>
<th>Pre–mean (SE)</th>
<th>Post–mean (SE)</th>
<th>Effect size (partial $\eta^2$)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eudaimonic well-being</td>
<td>7–49</td>
<td>34.0 (0.5)</td>
<td>35.3 (0.6)</td>
<td>0.12***</td>
</tr>
<tr>
<td>Symptom Questionnaire</td>
<td>0–15</td>
<td>3.4 (0.3)</td>
<td>2.5 (0.3)</td>
<td>0.26***</td>
</tr>
<tr>
<td>Geriatric depression Scale</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Anxiety</td>
<td>0–23</td>
<td>6.9 (0.4)</td>
<td>5.7 (0.4)</td>
<td>0.11**</td>
</tr>
<tr>
<td>Depression</td>
<td>0–23</td>
<td>6.7 (0.4)</td>
<td>5.6 (0.4)</td>
<td>0.10**</td>
</tr>
<tr>
<td>Hostility</td>
<td>0–23</td>
<td>4.5 (0.3)</td>
<td>3.5 (0.3)</td>
<td>0.15***</td>
</tr>
<tr>
<td>Somatic symptoms</td>
<td>0–23</td>
<td>7.1 (0.3)</td>
<td>6.4 (0.3)</td>
<td>0.09**</td>
</tr>
<tr>
<td>Satisfaction with Life Scale</td>
<td>5–35</td>
<td>21.1 (0.7)</td>
<td>23.1 (0.7)</td>
<td>0.15***</td>
</tr>
<tr>
<td>Social Well Being Scale</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Social integration</td>
<td>1–7</td>
<td>4.9 (0.2)</td>
<td>5.2 (0.2)</td>
<td>0.13***</td>
</tr>
<tr>
<td>Social contribution</td>
<td>1–7</td>
<td>5.3 (0.1)</td>
<td>5.5 (0.1)</td>
<td>0.05*</td>
</tr>
<tr>
<td>Sleep complaints</td>
<td>4–20</td>
<td>10.8 (0.4)</td>
<td>10.2 (0.3)</td>
<td>0.06*</td>
</tr>
<tr>
<td>Trouble falling asleep</td>
<td>2.8 (0.1)</td>
<td>2.5 (0.1)</td>
<td></td>
<td>0.09**</td>
</tr>
<tr>
<td>Waking at night</td>
<td>2.7 (0.1)</td>
<td>2.7 (0.1)</td>
<td></td>
<td>0.01</td>
</tr>
<tr>
<td>Early wakening in morning</td>
<td>2.5 (0.1)</td>
<td>2.5 (0.1)</td>
<td></td>
<td>0.01</td>
</tr>
<tr>
<td>Feeling unrested</td>
<td>2.8 (0.1)</td>
<td>2.5 (0.1)</td>
<td></td>
<td>0.05*</td>
</tr>
</tbody>
</table>

$**P < .001; \; **P < .01; \; *P < .05.$
positive effects in promoting eudaimonic well-being and decreasing psychological distress in old age. The links between multiple dimensions of health and eudaimonic aspects of well-being, such as purpose in life, suggest that programs that help older adults sustain or increase well-being may also lead to broad improvements in length and quality of life.

Disclosure statement
The Authors have no conflicts of interest to declare.

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References
Appendix

Liven Up! Protocol

Session 1 Well-being in everyday life: The aim of this session is to examine shared definitions and recognition of well-being and happiness in current daily life. Instructions are provided to record daily activities associated with positive affect: diary and homework assignments.

Session 2 Well-being in the past: Focus is on identification and sharing of very special positive moments in participants’ past life, highlighting differences and affinities between participants. Specific instructions for life review of positive memories are also given.

Session 3 Obstacles to savoring well-being: Participants are asked to describe the magical/very special memories of their lives from their personal life review, in a narrative context. Then, they are invited to identify obstacles and adversities that interrupted or impeded well-being. These may be external stressors, or losses but also personal attitudes, or physical pain or illnesses.

Session 4 Automatic thoughts and impacts on well-being: Starting from identification of obstacles and adversities that interrupt or impede well-being, facilitators explain the cognitive model, which emphasizes that there are personal attitudes or ways of reacting to situations (negative thinking patterns) that influence our happiness and well-being.

Session 5 Cognitive restructuring: The aim of this session is the identification of dysfunctional thoughts and behaviors and their modification and correction with more useful, adaptive thoughts and behaviors. The cognitive restructuring is performed in group format, with participants providing alternatives and external positive thinking styles.

Session 6 Domains of well-being: This session introduces the most common dimensions of well-being and how they change across the life-course. In older age, well-being has specific features that are different from other life-stages: particular dimensions tend to decline with age (in particular, purpose in life and personal growth) vs. dimensions that tend to remain stable or increase with age (self-acceptance, positive relations with others).

Session 7 Strategies to improve well-being: The aim of this session is to help participants understand that even though certain aspects of well-being are possibly impaired due to age, and despite age-related losses, there still are resources with can be used to enhance people’s enjoyment of life. Exceptional examples of positive aging (Franklin, Michelangelo) are provided with a discussion on challenges, possibilities to accomplish large goals in late life, or planning activities to increase one’s well-being.

Session 8 Well-being and health: This session is educational, highlighting the relationship between physical and mental health and the correction of unhealthy life styles. Discussion will also center on how to improve and maintain well-being along with recommendations and consideration of the most important findings emerging from group experience.