



# Promoting mental health & well-being via the Internet

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## The Plan

- 1. Mental Health
- 2. Positive Psychology
- 3. Internet Interventions
- 4. The study
- 5. Results
- 6. What Next?



Martin looked on in horror as Brian, once again, destroyed his plans for happiness and contentment.

## Mental Health & Illness

- Focus, since WW2, on psychopathology
- Limited research looking at mental health / well-being
- Mental health is more than the absence of mental illness

## Mental Health & Illness

World Health Organisation (2001)

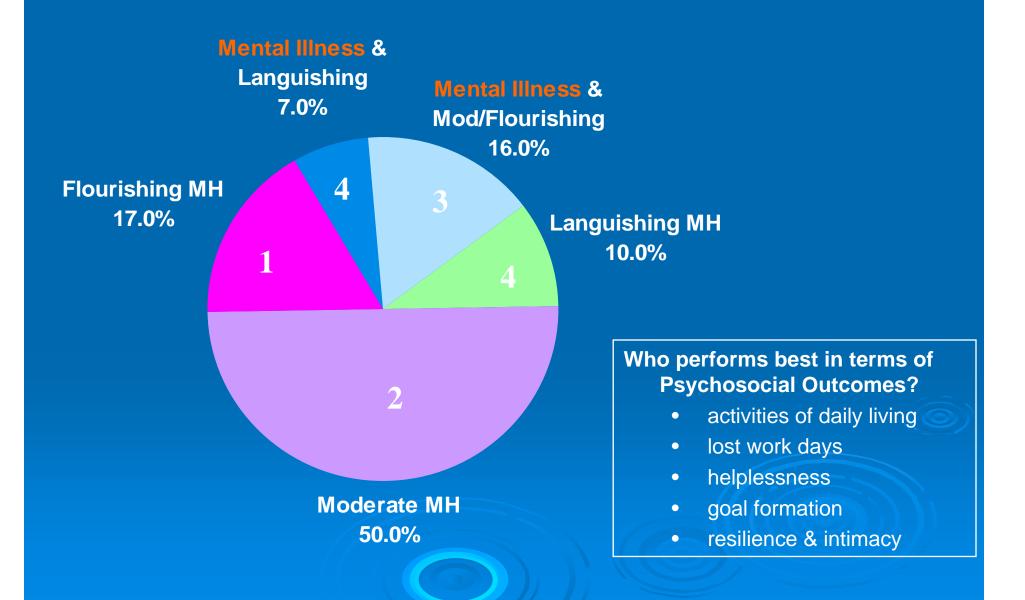
"...a state of well-being in which the individual realizes his or her own abilities, can cope with the normal stresses of life, can work productively and fruitfully, and is able to make a contribution to his or her own community."

## Complete Mental Health

### Corey Keyes (2005)

- N = 3,032 American adults (25-74 yrs)
- Mental illness (depression, GAD, panic disorder, alcohol dependence)
- Mental health (positive affect, life satisfaction, psychological and social well-being)
- Confirmatory factor analysis supported the hypothesis that mental health and mental illness constitute separate correlated unipolar dimensions.

## Complete Mental Health



## Positive Psychology

Positive psychology is the scientific study of wellbeing and optimal functioning, focusing on positive emotions, character traits and enabling institutions.

(Seligman & Csikszentmihalyi, 2000; Seligman, Steen, Park, & Peterson, 2005)

Aim to bring together previously disparate lines of research and theory under the one umbrella.

## Web Wellness

Increased interest in online wellness information unrelated to symptoms of illness, medical diagnosis or health crisis (Evers, 2006; Fox, 2006)



"I've got my health, the kennel, the bone, the big yard. I know I should be happy."

## Internet Interventions

### Illness treatment & prevention

- E.g. anxiety
- depression
- panic disorder
- > PTSD
- phobias
- OCD
- eating disorders
- encopresis
- tinnitus
- headaches

#### **Health Behaviours**

- E.g. physical activity
- nutrition / diet
- smoking cessation
- alcohol use

### **Wellness Promotion**

1 online study

## Well-being Internet Intervention

Seligman, Steen, Park & Peterson (2005)

- $\triangleright$  N = 577 adults
- Randomised placebo controlled trial
- Assessment x 6 (pre-, post-, 1-week, 1-month, 3-month, 6-month follow-up)
- > 1-week intervention (5 active interventions, 1 placebo control)
- Measures:
  - Happiness (Steen Happiness Index)
  - Depression (CES-D)

## Well-being Internet Intervention

- 1. Using signature strengths in a new way
- 2. Three good things (daily gratitude)
- 3. Gratitude visit (one-off gratitude)
- 4. Identifying signature strengths
- 5. Identifying a time when you are at your best
- 6. Earliest memories (placebo control)

Increase in happiness and decrease in depression at: post-, 1-week, 1-month, 3-month, 6-month follow-up

## Well-being Internet Intervention

- Demonstrates the potential for Internet mental health promotion
- Limitations & Issues
  - Questionable 'Internet Intervention' (i.e. email of text based-instructions)
  - Confound human contact

## Study Aim

- To develop and test the efficacy of an internetbased positive psychology intervention to enhance well-being and mental health of adult Australians
- > To explore attrition.

## Study Design

**Self-register online** 

**Pre-treatment Assessment** 

**Random Assignment** 

**Strengths** 

Problem Solving

Placebo Control Waitlist Control

**Post Assessment** 

Follow-up Assessment (3 months)

## Measures

- Demographic information (pre-assessment only)
- Personal Wellbeing Index (International Wellbeing Group, 2006)
- > PANAS
- Satisfaction With Life Scale
- Depression Anxiety Stress Scale (Lovibond & Lovibond, 1995)
- Program evaluation (post-assessment only)

## Groups

### 1. Strengths:

- Identify & use personal strengths (e.g. curiosity, gratitude)
- Information architecture tunnel design
- 3 self-guided sessions, 3 weeks
- Interactive, personalised information and activities
- Recommended offline activities/practice

### 2. Problem Solving:

- Identify & use personal problem solving skills
- Same format as strengths intervention

#### 3. Placebo Control:

- Reading information about problem solving
- 3 sessions self-guided sessions, 3 weeks

## Strengths Intervention

Example web pages

#### **ENHANCED** WELLBEING ONLINE

#### **Identifying Strengths**

#### Maximising Strengths

Step 1

#### Reviewing Progress

What next?



Welcome Jo to the Enhancing Wellbeing Online (EWO) program developed by Monash University and the Australian Institute of Sport. This program provides you with personal development information and activities to be completed both on and offline.

The program is made up of 3 sessions to be completed over a 3 week period. While it takes approximately 20 minutes to complete each session, you will also need to set aside an additional 20 minutes each week to complete the offline activity.

We suggest you designate a day each week to complete the session, allowing a week between sessions to complete the offline task. We will send you a weekly email reminder to complete the next session if you have not done so already.

There are a number of online activities to complete in each session. Your responses to these activities will be recorded automatically.

Revisit the Explanatory Statement







#### **Identifying Strengths**

#### **Maximising Strengths**

Step 1

#### Reviewing Progress

Logoff





#### Next 0

#### Ouestion 1: What skills or activities have you learned easily or enjoy doing?

For example, playing the guitar, teaching, solving the sudoku, selling on ebay, being a parent, organising a dinner party, reading the financial section of the newspaper, playing tennis.



Remember, there is no correct answer to these questions! Just answer them as best you can. Once you have answered each of these questions you can move on to the next section

#### Question 2: What are you doing when you feel most comfortable and at ease with yourself?

For example, at home with my family, when I am writing my monthly work report, playing tennis, when I am painting, spending time with friends, going to a party, when I am helping others, walking the dog.



#### Question 3: What aspects of your life are you most proud of?

For example, my work team, my children, having good friends, maintaining a regular exercise routine, my charity work, getting a bonus from work, travelling overseas.



In the next section we will begin to classify and prioritise your signature strengths.







#### **ENHANCED** WELLBEING ONLINE

#### Identifying Strengths

#### **Maximising Strengths**

Step 1

#### Reviewing Progress

#### Ranking your Signature Strengths

- 1. Love of learning
- 2. Curiosity and interest in the world
- 3. Creativity, ingenuity, and originality
- 4. Appreciation of beauty & excellence
- 5. Gratitude
- 6. Capacity to love and be loved
- 7. Honesty, authenticity, and genuineness
- 8. Hope, optimism, and future-mindedness
- 9. Playfulness
- 10. Judgment, critical thinking, and open-mindedness
- 11. Perspective (wisdom)
- 12. Social intelligence
- 13. Fairness, equity, and justice
- 14. Kindness and generosity
- 15. Citizenship, teamwork, and loyalty
- 16. Forgiveness and mercy
- 17. Bravery
- 18. Industry, diligence, and perseverance
- 19. Modesty and humility
- 20. Leadership
- 21. Zest, enthusiasm, and energy
- 22. Self-control and self-regulation
- 23. Caution, prudence, and discretion
- 24. Spirituality, sense of purpose, and faith

Roll your mouse over any of the signature strengths to read a more detailed description of its meaning.

Using your mouse, click and drag the items to arrange them in the list, with those most like you at the top, and least like you at the bottom.

If you find it difficult to rank all 24 strengths. then just focus on the top 10 strengths as these are the ones will use in the next session.

Your answers will automatically save when you click the next button.







#### Identifying Strengths

#### Maximising Strengths

Step 1

#### Reviewing Progress

#### Offline Activity

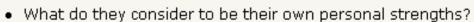




Well done! You have completed the first session. To help consolidate the work you have done online, we ask that you complete an offline activity prior to commencing the next session.

#### Offline Activity

Your offline activity is to ask a family member / friend if you can share what you have learnt from this session. Only share as much or as little information as you feel comfortable with. To get the conversation started you may want to ask them some questions like:



- Which of the signature strengths are most relevant for them?
- What do they think are your personal strengths?
- How do you both use your strengths in your daily life?

Remember, to keep the conversation focused on strengths, not weaknesses!

Click here to view/print the Strength Table (with Signature Strengths explanations).

Click here to view/print your answers to the questions at the start of this session.









#### **Identifying Strengths**

- Signature Strengths

#### **Maximising Strengths**

Step 1

#### **Reviewing Progress**

Please wait a week before logging back on for the next session. This gives you time to reflect on what you have learnt and complete the offline task. I will send you a reminder email if you forget to log on and complete the next session. Have a great week!



Logoff







#### **ENHANCED** WELLBEING ONLINE

#### **Identifying Strengths**

- Activity

#### **Maximising Strengths**

Step 1

Offline Activity

#### Reviewing Progress



Welcome back! In the last session you spent time identifying a problem to work on, generating possible solutions and evaluating the alternatives. At the end of the session you were asked to do an offline activity (i.e. Review the first three steps and discuss what you had learnt with a friend or family member). How did it go?

Did you try the offline activity? Yes | No

#### NO: Question 2

What happened? What stopped you from doing the offline activity?

Remember - doing the offline activity can really enhance your learning experience.

I meant to do it but just ran out of time. Will set aside specific time to do it this week.





#### **ENHANCED** WELLBEING ONLINE

#### Identifying Strengths

- Signature Strengths

#### Maximising Strengths

Step 1

#### Reviewing Progress

On the next screen you will be asked to list two ways you can use and develop each of your chosen strengths further. You might choose to apply your strength to a challenge you are currently facing, or to a new activity. There are no right or wrong answers - just pick challenges/activities that fit well with you and use your signature strength.

Below is an example response for the Step 2 activity.

#### The ways that I will develop my strengths are:

Love of Learning

- Listen to my favourite weekend radio news program.
- Set aside dedicated time to do more research on a work project that is not going as well as I hoped.

Gratitude

- List 3 things that I am grateful for each week.
- Demonstrate appreciation if someone helps me at work or in my personal life.

The ability to love and be loved

- At then end of a phone call to my children, tell them. that I love them.
- Accept compliments graciously.

Revisit the full list of Signature Strengths and their definitions.

Logoff







#### Identifying Strengths

#### **Maximising Strengths**

#### Reviewing Progress

Logoff

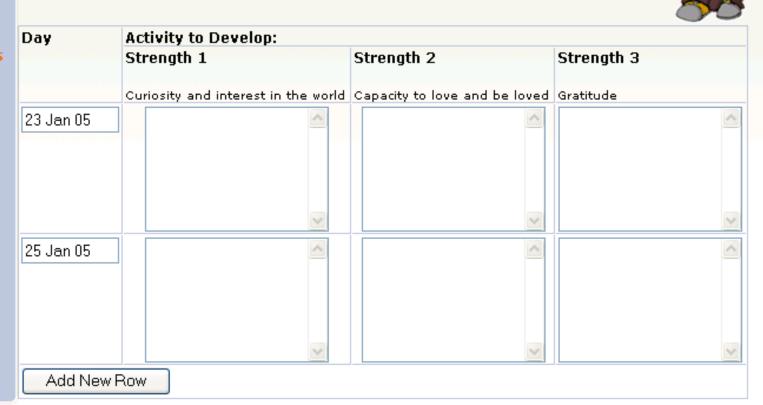
#### Weekly Strength Diary



Next 🕩

You can either click the link to download a print version of Diary or fill in the online Diary below. Remember, when keeping your diary try to:

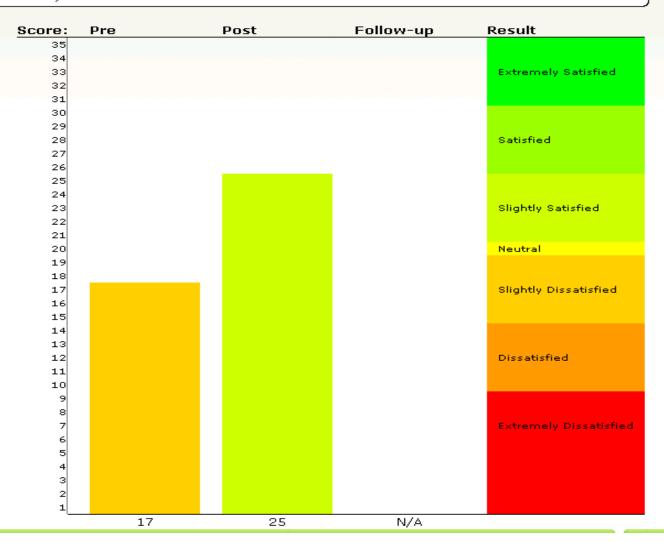
- Complete the diary as you go, or at the end of each day, so that you do not forget what you have achieved by the end of the week.
- Try to engage in at least one activity per day.
- Try to make the activities achievable and enjoyable or gratifying. Review your progress at the end of the week and make changes if required.







Here are your results for the 'satisfaction with life' questionnaire. You can compare your results for each time you completed the questionnaire. We will contact you again in 3 months to complete the questionnaires for a final time and you will be able to view your results.





## Study Results

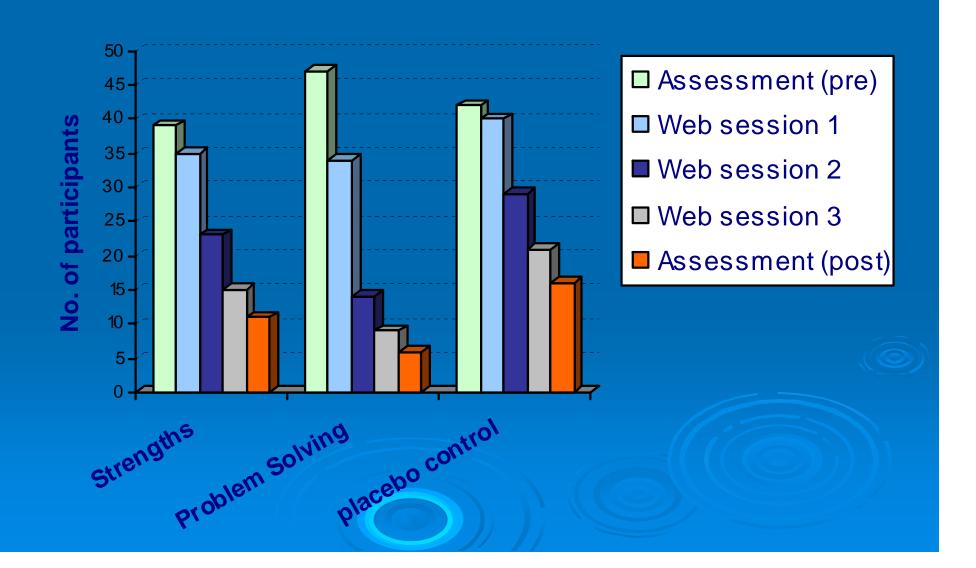
## Participant Characteristics (N=128)

| Age            | M=37.2 (SD=11.3)<br>Range 19-62yrs |
|----------------|------------------------------------|
| Sex            | 85% female                         |
| Employment     | 84% employed<br>13% students       |
| Education      | 81% with tertiary degree           |
| Marital status | 57% married/defacto<br>33% single  |
| Family         | 40% have children                  |

### **Attrition**

- > The proportion of users who drop out before completing (Eysenbach, 2005)
- Face-to-face interventions (10%)
- Internet Interventions (6-95%)
  - 95% & 77.5% for Moodgym depression prevention (Christensen et al., 2004)
  - 65.0% for smoking cessation program (Etter, 2006)
  - 29.0% for Happiness intervention (Seligman et al., 2005)
  - 6.0% for Panic Online Panic disorder treatment (Klein et al., 2006)
- Pre (N=128) to post (N=33) assessment attrition = 74%

### Attrition by Group

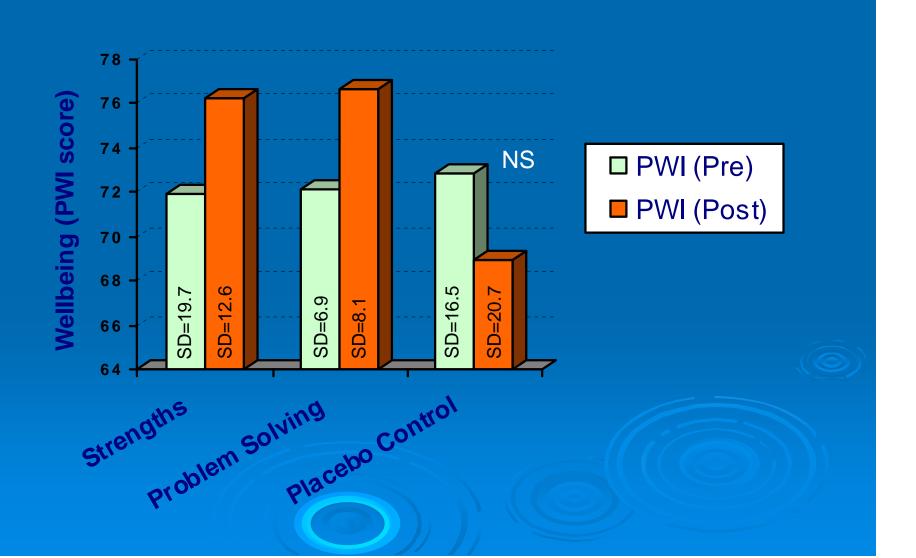


## **Attrition**

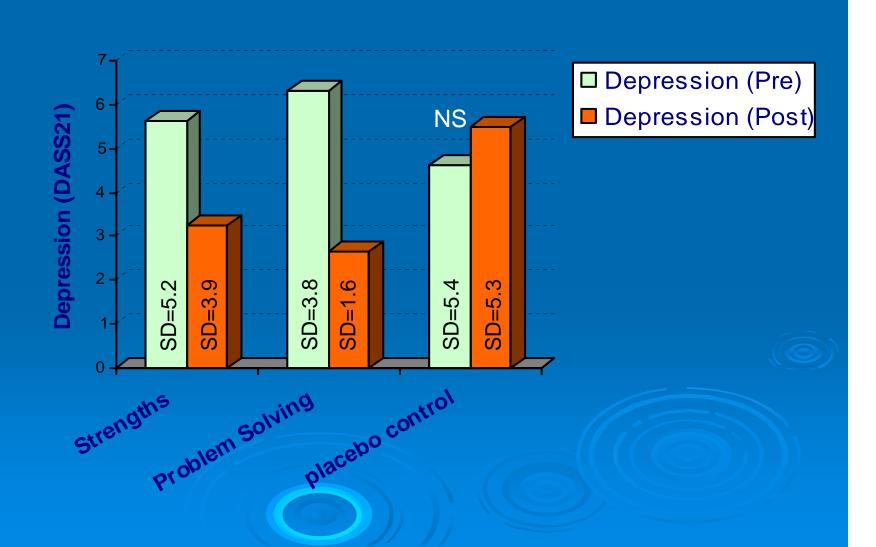
### Factors that may impact on attrition:

- Motivation (i.e. alleviate illness vs enhance wellness)
- Human contact during assessment or intervention
- Information architecture (e.g. tunnel design)
- Web technical issues
- Interactivity / effort (e.g. less attrition from group 3)

### Pre-post group means for well-being (PWI)



### Pre-post group means for depression (DASS)



## Results

#### Well-being:

- Placebo = no change
- Strengths & problem solving = increase
- Australian PWI normative range (73.4 76.7)

#### **Depression:**

- Placebo = no change
- Strengths & problem solving = decrease
- Pre- and post means in 'normal range' (0-9)

#### **Anxiety & Stress:**

No change for all groups

## Limitations & Summary

### **Limitations:**

- High attrition rate (more data needed)
- Interim data only
- Maintaining change (3 month follow-up)
- > Technical issues & waitlist control

### Summary:

- Online interventions based on evidence based protocols have the potential to impact positively on the well-being and mental health of adult Australians.
- Factors that impact on attrition require further exploration.





# "To live is the rarest thing in the world. Most people exist, that is all"

Oscar Wilde