Quality health plans & benefits Healthier living Financial well-being Intelligent solutions

# **aetna**<sup>®</sup>

# Mind-body stress reduction

Julie-Ann Poll and Robin Aldieri April 25, 2012



# Mindful Eating – The Raisin/ Chocolate Exercise



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# Evidence-based solutions for chronic and high stress

### Why stress about stress?

- 87% of physicians report an increase in patients with stress symptoms\*
- 36% of workers said they typically feel tense or stressed during their workday, with 20% reporting their average daily level of stress from work is 8, 9 or 10 on a 10-point scale\*\*
- According to a ComPsych 2011 survey, weight loss and stress reduction topped the list of employee wellness concerns
- The American Psychological Association estimates 43% of US adults suffer adverse health effects from stress



\*AAFP Recession Care Survey, May 2009 \*\*APA Stress in the Workplace, March 2011

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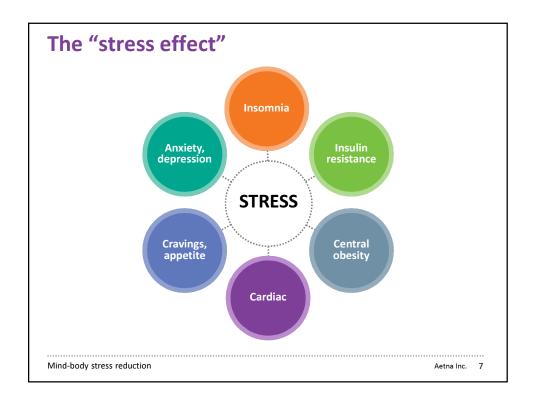
### Why is stress an issue?

### **Stress is:**

- Aetna's #1 EAP call
- Top prevalent risk on Health Assessment
- High focus area in Aetna's online coaching programs
- In top 8 reasons for disability



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### **Effects of chronic stress**

- **The brain:** Decreased short-term and contextual memory, neuronal atrophy and destruction of neurons; learning and retention are impaired.
- The immune system: Worsened autoimmune and allergic conditions while suppressing healthy immune function
- Cardiovascular: Risk of coronary heart disease, elevated blood pressure, increased atherosclerosis and risk of myocardial infarction
- **Metabolic system:** Increased central obesity and insulin resistance, thereby increasing risk of diabetes

**Disruptive biochemistry:**elevated cortisol
and suppressed
serotonin.

This change compromises vital organs, leading to loss of function and disease.

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# **Aetna Mind-Body Stress Reduction** research study

In 2010, Aetna conducted a randomized-control study on Mind-Body Stress Reduction – Chairman's Initiatives

- Aetna collaborated with Duke Integrative Medicine, eMindful Inc. and the American Viniyoga Institute
- Study tested two, innovative mind-body approaches: mindfulness meditation and therapeutic yoga, against control group
- Studies included 239 Aetna employees in CA & CT
- Employees randomly assigned to 1of 5 study 'arms'
- 96 assigned to mindfulness classes; 90 to yoga;
   53 to control group
- Participation rates were average 87% for both therapeutic yoga and mindfulness classes

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# **Aetna Mind-Body Stress Reduction** research study design





Control Group	In-person Mindfulness at Work	Online Mindfulness at Work	Viniyoga	Viniyoga (with DVD)
Waitlisted Controls	Treatment Group	Treatment Group	Treatment Group	Treatment Group
No Treatment Intervention Provided	Instructor Led Onsite Classes	Instructor Led Online Classes	Instructor Led Onsite Classes	Instructor Led Onsite Classes
				supplemented by home based Viniyoga DVD

# Mind-Body Stress Reduction research study results

- Significant improvements in perceived stress with 36% (mindfulness) and 33% (viniyoga) decreases in stress levels compared to 18% for the control
- Sleep difficulties decreased by 29% and 32% respectively compared to 18% for the control
- Significant improvement also realized for current pain levels in the yoga group, compared to control
- Breathing rate decreased more for the mindfulness participants compared to control
- <u>Directionally favorable</u> metrics demonstrated in productivity, insomnia and depression
- Online and in-person classes showed <u>equivalent</u> results and retention was better in the online classes
- Results achieved in about <u>half the length</u> of other commonly used mind-body interventions

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# Aetna Mind-Body study intervention dosage comparison

Both interventions achieved results in half the class hours compared to the industry gold standard of MBSR

Mindfulness-Based Stress Reduction (MBSR)	Mindfulness at Work	Viniyoga Stress Reduction
10 Week Course	12 Week Course	12 Week Course
2.5 Hours / Week	1 Hour / Week	1 Hour / Week
5 – 7 Hour Intensive	2 Hour Intensive held during Week 10	None
Total Class Time: 30 – 32 hours	Total Class Time: 14 hours	Total Class Time: 12 hours
45 Minutes / Day at home practice commitment	Average 10 Minutes 3 times / Week actual at home practice	Average 15 Minutes 3 times / Week actual at home practice

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### Positive correlation between medical costs and participants' stress levels Stress and medical costs ··· 12 month PMPM \$350 \$304 \$300 Medical allowed PMPM Among all individuals \$259 ..... screened for the \$250 \$258 study, those \$200 reporting the highest \$189 stress level (top \$183 quintile) had higher \$100 medical costs for the preceding year, \$50 nearly \$2,000 more \$0 annually, than those Group 1 Group 2 Group 3 Group 4 Group 5 {PSS <=15} {16 to 19} {20 to 22} {23 to 26} {PSS >=27} reporting the lowest stress levels Stress score group Mind-body stress reduction Aetna Inc. 13

# Mind-Body stress reduction research study publication

### Journal of Occupational Health Psychology

"Effective and viable mind-body stress reduction in the workplace: A randomized controlled trial"

By Wolever, Ruth Q.; Bobinet, Kyra J.; McCabe, Kelley; Mackenzie, Elizabeth R.; Fekete, Erin; Kusnick, Catherine A.; Baime, Michael

Journal of Occupational Health Psychology, Vol 17(2), Apr 2012, 246-258



Mind-body stress reduction

### Mindfulness at Work program

(in coordination with eMindful)

### **Teachings**

- Evidence-based stress management skills, including mindfulness awareness, breathing techniques, and emotion management
- How to be present, escape thoughts, physical feelings, or emotions that put them into a stress cycle
- How to choose a different approach

### **Course details**

- Live, real-time online classes taught by experts
- Instructors and participants use video, audio and instant messaging / chat
- Includes 12 one-hour classes per session
- Maximum class size depends on offering

Mindfulness programs are not provided by Aetna, but only through a third party.

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### Viniyoga Stress Reduction program

(in coordination with AVI)

### 12 weekly on-site sessions, 1 hour each

 Progressively introduces tools for managing stress, including physical yoga postures, breathing techniques, guided relaxation and mental techniques

### Helps participants:

- relieve musculoskeletal tension in back, neck and shoulders
- relieve headaches caused by musculoskeletal tension,
- · improve sleep
- increase feelings of well-being
- improve coping strategies for dealing with stressful events and the subsequent negative symptoms of stress
- promote adoption of home and office strategies for reducing stress through yoga

Yoga programs are not provided by Aetna, but only through a third party

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### Two use-cases for employers

### 1 "Tough to Reach Mental Health"

- For highly skilled workforce with high levels of depression and stressrelated conditions
- Overcomes stigma of seeking "help"
- Mindfulness shown effective for depression/ anxiety/ PTSD
- Improved self-efficacy means more self-management and less somatization

### 2 "Peak Performance Play"

- Employee retention of highly skilled workforce
- Improved concentration for complex tasks
- Improved mental and emotional stability
- · Reduced stress

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# Why introduce stress management programs?

### **Making the Business Case**

- Companies who believe in a health & wellness culture are focused on strategic program investments that achieve positive employee health behavior change
- Innovative companies recognize stress management offers benefits beyond health & productivity and use as differentiator in creating "employer of choice"
- Addressing the linkage between stress, health, and medical cost may help employers to target the root cause of health behaviors that they are addressing separately today



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# Thank you



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