



What is OWL?

Our Whole Lives is an e-health toolkit containing 9 modules aimed to educate patients on management of hypertension and associated conditions (stress reactivity, insomnia, poor nutrition, inflammation) to reduce this and other cardiac risk factors.

Daily Measurement Record

- Current mood
- How participant is feeling physically
- Medication log
- Self-administered vitals

Monitored Community Blog

where participants can post what they're learning, share recipes or achievements, and generally support each other as they take part in the intervention.

Home Practice Sessions with topics like...

- Meditation
- Chair Yoga
- Body Scan

O.W.L. Content, In-Depth:

| Title of Session | Theme /Activities | | |
|--|--|------------------------|--------|
| Session 1 – Online Orientation o OWL-Hypertension | Awareness of Breath meditation, ground rules for website communication, introduction to mindfulness | | |
| ession 2 – Our Reactions to cress | Non-pharmacological approaches to stress | | |
| ession 3 – Our Bodies and lealthy Sleep | Non-pharmacological approaches to sleep | | 1 |
| Session 4 – Movement and Food as Medicine | Movement and Healthy eating skills | OWISS | |
| Session 5 – Our Bodies' Response to Pain | Non-pharmacological pain approaches to pain management | DUR WHOLE LIVES | |
| Session 6 – Our Bodies and Inflammation | Non-pharmacological approaches to treating inflammation | Session 1 Session 2 | • |
| Session 7 – Our Bodies and Depression | Non-pharmacological approaches to depression and challenging communications | Session 3 Session 4 |)) |
| | | Session 5 Session 6 |)) |
| Session 8 – Understanding the Role of Food in Our Body | Mindful eating | Session 7 Session 8 |)) |
| Session 9 – Wellness Review | Wellness Review | Session 9 | Þ |

OWL – Our Whole Lives; e-Health Toolkit

Paula Gardiner MD MPH, Associate Professor Department of Family Medicine, University of Massachusetts Medical School



Online Resource Library

containing mind-body

e Resources tab as located in the same place to see our wonderful

Background

- delivered by the OWL platform (Gardiner et al., 2017).
- system for use in a hypertension and cardiac risk patient population.

Participants

- transitioned OWL for hypertension and cardiac risk platform (OWL-H)

Specific Aims

- health-related quality of life).

Each cohort will complete an 8 week trial of 0

Baseline

Week 4

Week 8

Focus Group (At Week 8 Session

O.W.L Our Whole Lives





The Current Study:

Reducing Disparities in the Treatment of Hypertension using the OWL e-Health Tool

• Nearly 80 million adults in the United States have high blood pressure. Few studies have specifically targeted minority populations with hypertension (Bartolome, Chen, Handler, Platt, & Gould, 2016; Fang, Yang, Ayala, & Loustalot, 2014).

OWL for Chronic Pain (OWL-CP), the original version of OWL, was developed and tested with subjects with chronic pain and conditions with funding from the Patient Centered Outcomes Research Institute (2013-2017) (Gardiner, Dresner, Barnett, Sadikova, & Saper, 2014). OWL-CP was also tested in a sample of 46 with funding from the Aetna Foundation.

Preliminary results from the Aetna foundation study showed a reduction in cardiac risk factors such as systolic blood pressure, stress, unhealthy eating, and sedentary behavior among subjects participating in the self-management program

For this study, a transdisciplinary team will be collecting quantitative and qualitative outcomes to transition and refine the

Long term plans include a large RCT testing the OWL platform in reducing hypertension and cardiac risk factors.

We will recruit 26 participants (2 cohorts of 13) to participate in an 8 week adaptability and feasibility trial of the newly

Participants will be age 18 or older; recruited from a UMass Memorial primary care clinic; currently on a hypertension medication; easily able to access OWL-H on the internet; not suffering from any comorbid conditions that might affect their participation in the study (e.g., substance abuse, severe mental health disorders, or pregnancy)

To pilot test OWL-H to refine its utility for home self-monitoring (number of times patients record home blood pressure and input this data onto OWL-H and engagement of self-management tools (i.e. #of logins, # of mind body sessions completed, # of times modules accessed each day)). Hypothesis 1: eighty percent of patients will log in and record their blood pressures.

At the end of each cohort, conduct a focus group to obtain information about: 1) The barriers and facilitators of using the OWL platform and using OWL to self-monitor blood pressure at home, 2) Satisfaction with OWL, 3) How OWL helped with reduction of number of cardiac risk factors (e.g., smoking, eating habits, perceived stress, and amount of exercise and

| OWL-H, utilizing the 9 online modules, and following the below procedure: | | | | |
|---|--|--|--|--|
| | Baseline questionnaire completed (technology usability, diet, knowledge of htn, average activity, medications) Orientation session to orient patients to OWL-H; give and teach patients to use a BP cuff; and collect baseline vitals and physical data (height, weight, waist circumference) First of 3 cooking demonstrations (taped to upload to OWL-H) | | | |
| | Mid-point survey about OWL-H usage and feedback Second cooking demonstration (videotaped to upload) Follow-up questionnaire collected Post-intervention collection of vitals and physical data Final cooking demonstration (videotaped to upload) | | | |
| on) | Collection of qualitative data regarding OWL-H tool | | | |