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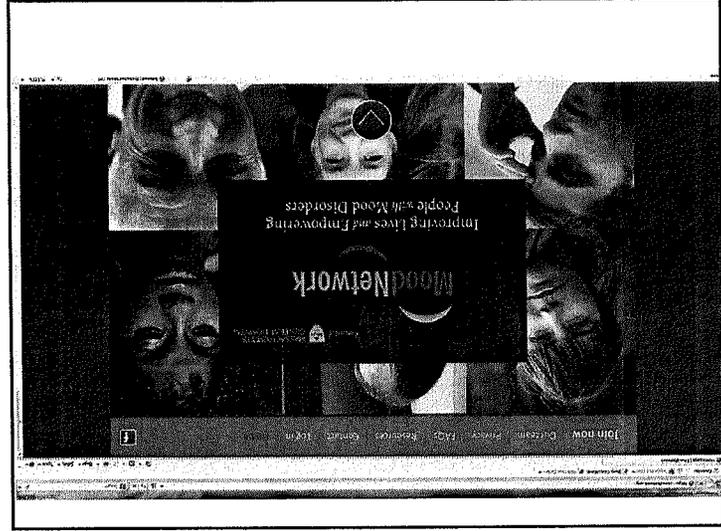
Andrew A. Nierenberg, MD Disclosure Statement

Other Income	MBL Publishing for past services as Editor-in-chief of CNS Spectrums; Slack Inc. for services as Associate Editor of Psychiatric Annals; Editorial Board, Mind Mood Memory, Behavior Publications
Patents and Copyrights	Copyright joint ownership with MGH for Structured Clinical Interview for MADRS and Clinical Positive Affect Scale
Additional Honoraria	ADURS, Brain and Behavior Foundation Colvin Prize, University of Pisa, University of Wisconsin at Madison, University Texas Southwest at Dallas, Health New England and Harold Grinspoon Charitable Foundation and Eli Lilly and AstraZeneca, American Society for Clinical Psychopharmacology and Zucker Hillside Hospital and Forest and Janssen, Brandeis University, International Society for Bipolar Disorder

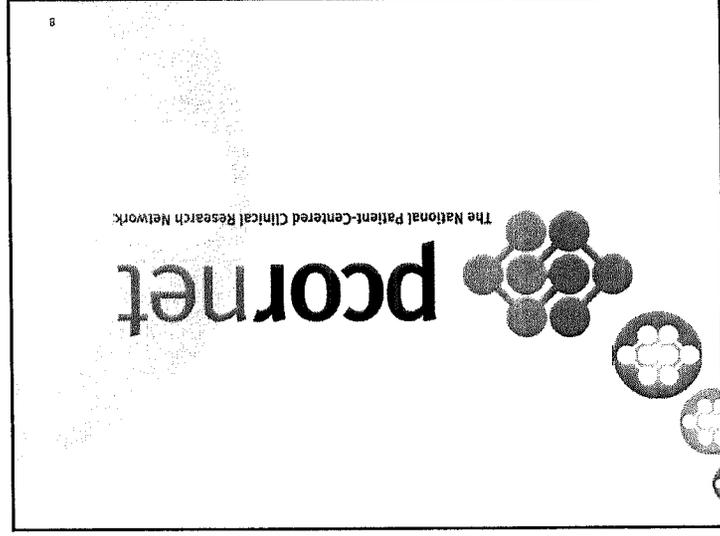
Andrew A. Nierenberg, MD Disclosure Statement

Employee Of	Massachusetts General Hospital
Consultant For	Abbott Laboratories, Astra Zeneca, Basilea, BrainCells Inc., Bristol-Myers Squibb, Cephalon, Clintara, Corcept, Eli Lilly & Co., Forest, Genaisance, Genentech, GlaxoSmithKline, Innapharma, Janssen Pharmaceutica, Jazz Pharmaceuticals, Lundbeck, Medavante, Merck, Novartis, PamLabs, PGx Health, Pfizer, Roche, Sepracor, Schering-Plough, Shire, Somerset, Sunovion, Takeda, Targacept, Teva
Stockholder In	Appliance Computing, Inc. (MindSite); Brain Cells, Inc., Medavante
Grant Support From	AFSP, AHRQ, Brain and Behavior Research Foundation, Bristol-Myers Squibb, Cederroth, Cyberonics, Forest Pharmaceuticals, GlaxoSmithKline, Janssen Pharmaceutica, Lichtwer Pharma, Eli Lilly, NARSAD, NIMH, PCORI, Pfizer, Shire, Stanley Foundation, Takeda, Wyeth-Ayerst
Honoraria From	MGH Psychiatry Academy in the past 3 years (Prior to 3 years ago, honoraria from Bristol-Myers Squibb, Cyberonics, Forest Pharmaceuticals, GlaxoSmithKline, Eli Lilly, Shire, Wyeth-Ayerst), No speaker bureaus since 2003

Patient Powered Research Network



On-line community of experts with
 experience collaborating with
 researchers and clinicians to
 improve lives.



Infrastructure for research.

PCORnet Goals

- **Improve**
 - nation's capacity to conduct comparative effectiveness research
- **Create**
 - large, highly representative, national patient-centered clinical research network
- **Conduct**
 - clinical outcomes research
 - comparative effectiveness research

Patient Powered Research Networks

- **Stakeholders at the center**
 - patients, advocacy groups, physician organizations, academic centers, others.
- **Patient engagement key**
- **Broad range of conditions and diseases**
- **Variety in populations represented (including pediatrics, underserved populations etc.)**
- **50% rare diseases**
- **Several have capacity to work with biospecimens**



- **Network of 29 networks**
 - **Clinical Data Research Networks (CDRNs)**
 - 11 large conglomerations of health care systems
 - **Patient Powered Research Networks (PPRNs)**
 - 18 consortiums of people with related conditions
 - 9 rare diseases, 9 common diseases
- **Common data model**
- **Minimum of 20 million people**

Experts with experience of depression or bipolar disorder at the center.

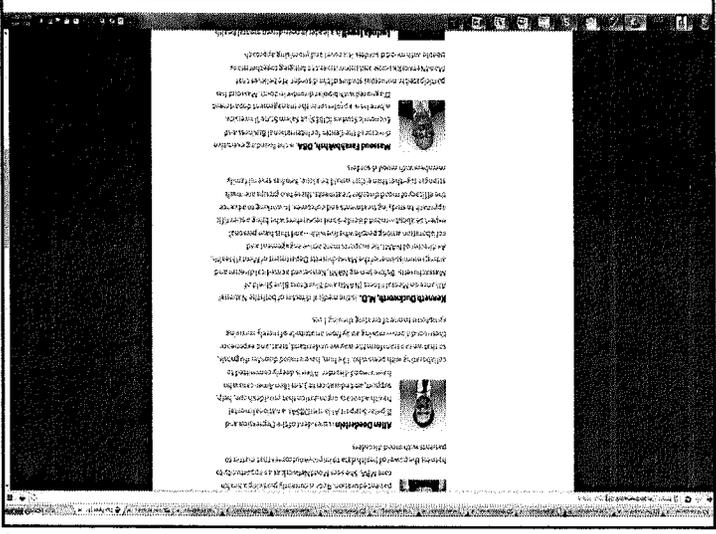
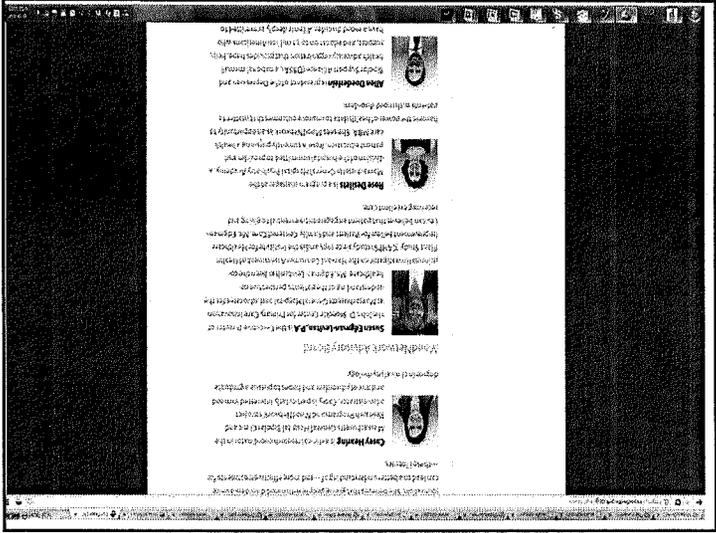
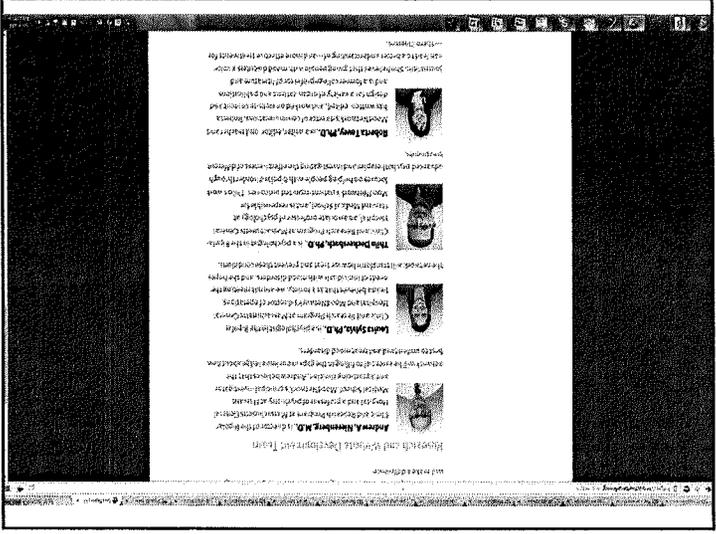
Every level of governance.
Shared decision making.
Co-production.
Co-learning.

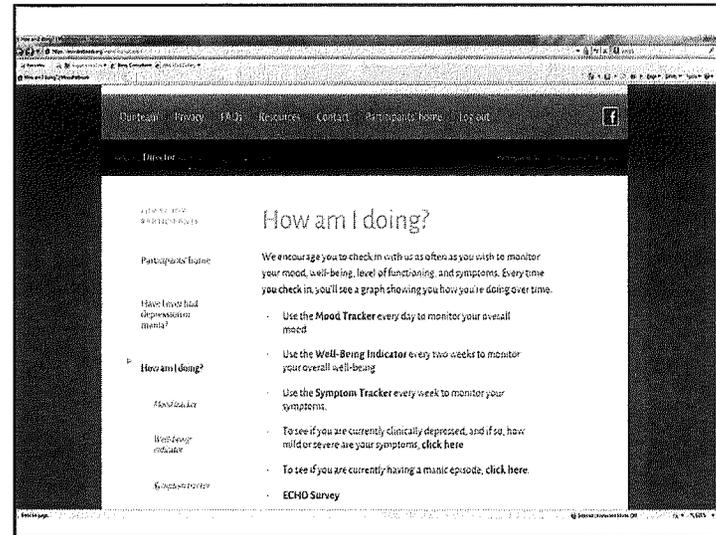
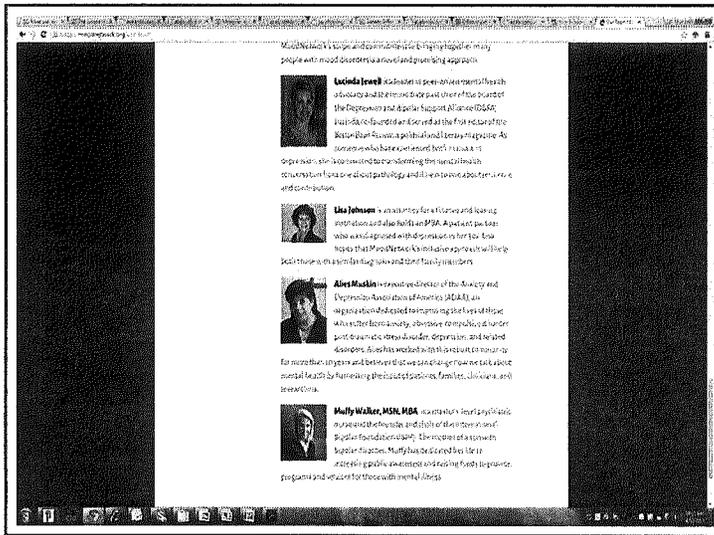


Advocacy groups

- DBSA - Allen Doederlein
- IBF - Muffy Walker
- ADAA - Alise Muskin
- NAMI - Ken Duckworth, MD
- National Association of Colored People Against Suicide – Donna Holland Barnes, PhD







Value Proposition for Participants

- Diagnostic tools
- Symptom tools
- Wellness measures
- Experience of care
- Research priorities
- Forums
- Blogs

Opportunities to participate in research.

Enrollment statistics (as of 8/7/15)

Depression	Hypomania or Mania
Yes	Yes
95.3%	81.6%
No	No
4.7%	18.4%
Total	Total

Enrollment statistics (as of 8/7/15)

Age Category	Sex
18 through 44	Male
58.8	18.2
45 through 64	Female
37.4	78.8
65 plus	Ambiguous
3.8	0.2
Total	Total
58.8	18.2
%	18.2
	0.8
	2.0
	Unknown

Enrollment statistics (as of 8/7/15)

Hispanic or Latino	Unknown
Yes	No
7.8	83.9
No	Unknown
%	8.3

- Current enrollment started 5/28/15**
- Participants 1,375
 - Unique visitors 9,049
 - Visits 14,452
 - Page views 83,086

Enrollment statistics (as of 8/7/15)

Race/Ethnicity	%
Percent White	84.9
Percent American Indian/Alaska Native	0.8
Percent Asian	4.0
Percent black or African American	2.0
Percent Unknown	3.1
Percent Other	0.0
Percent Multiple Race	5.2

Enrollment statistics (as of 8/7/15)

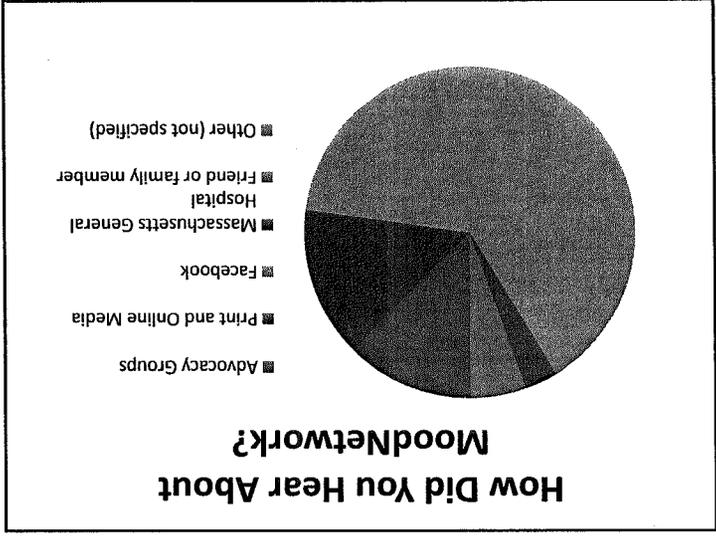
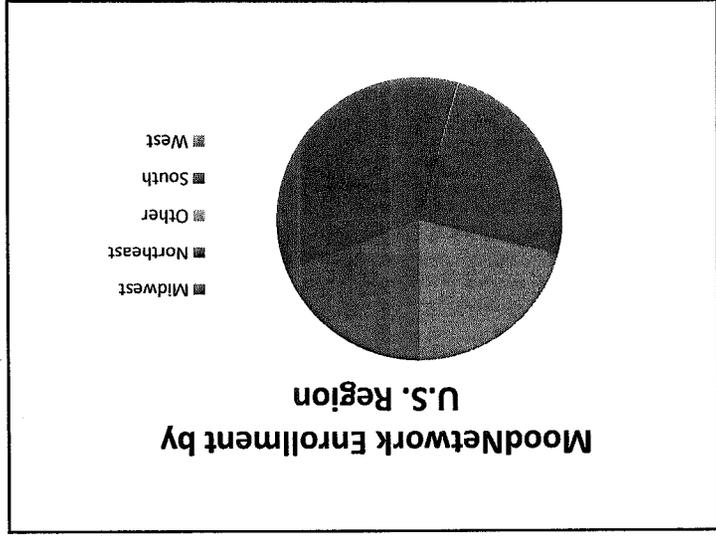
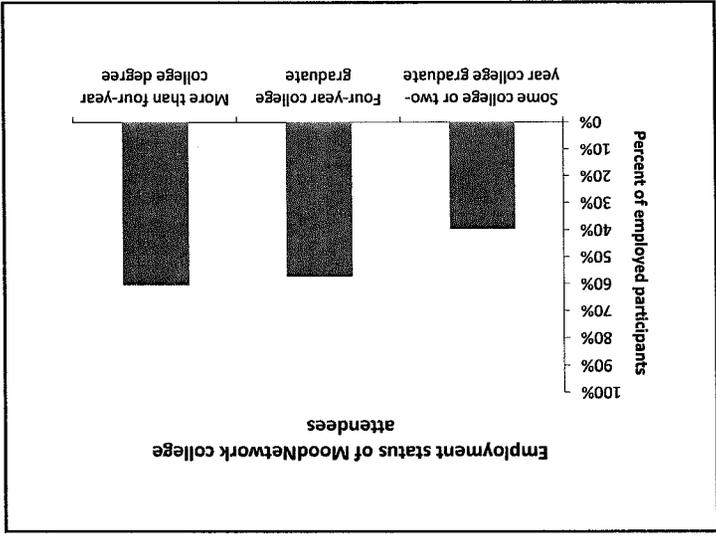
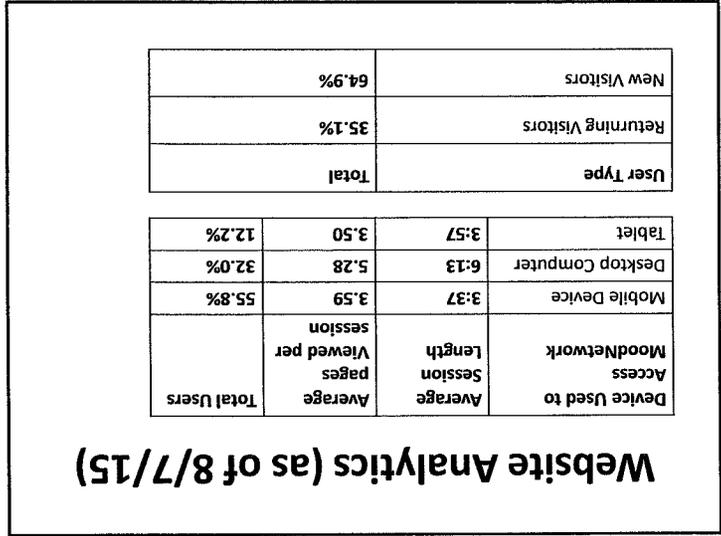
Marital Status	Total
Now married	35.9%
Living with a partner/significant other	11.4%
Widowed	1.7%
Divorced	16.4%
Separated	5.1%
Never married	25.5%
Unknown	3.9%

Enrollment statistics (as of 8/7/15)

Education	Total
Some high school but did not graduate	3.3%
High school graduate or GED	11.7%
Some college or two-year degree	34.8%
Four-year college graduate	22.9%
More than four-year college degree	23.8%
Unknown	3.1%

Enrollment statistics (as of 8/7/15)

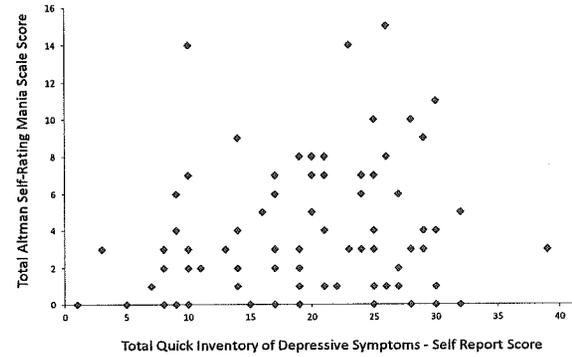
Employment	Total
Employed	615
Unemployed	287
Retired	124
Student	161
Homemaker	148
Volunteer	135
Disabled	325



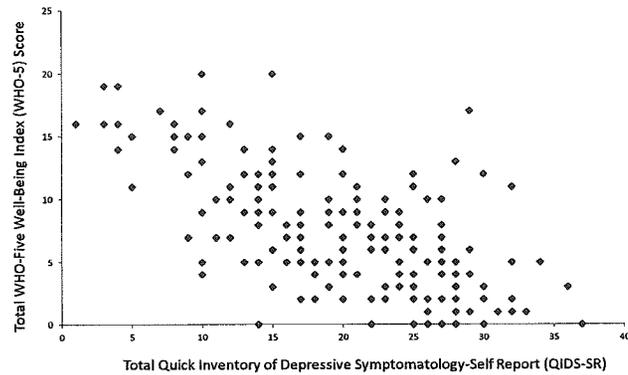
Surveys

MINI International Neuropsychiatric Interview 6.0 - Depression
Composite International Diagnostic Interview - Mania
Quick Inventory of Depressive Symptomatology Self-Report
Altman Self-Rating Mania Scale
Patient Centered Outcomes Research Institute Symptom Tracker
WHO-5 Well-Being Index
Depression and Bipolar Support Alliance Wellness Tracker

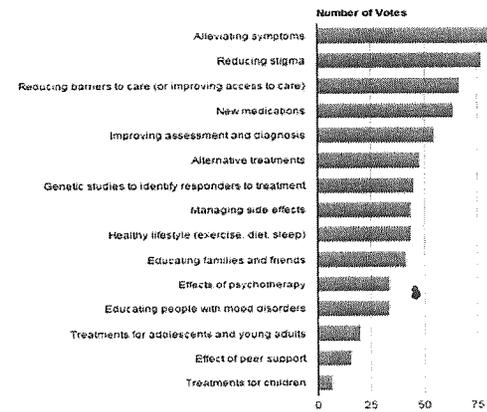
Mania and depression severity in the MoodNetwork population



Well-Being and depression severity in the MoodNetwork population



Participant Research Priorities



NIMH SBIR Phase II Award

- Cogito, Inc.
- App
 - Passive monitoring
 - GPS, accelerometer
 - Phone use
 - Surveys
 - Audio diary

MoodNetwork Summary

- Unique governance with collaboration
- Experts with experience
 - Donate data
 - Prioritize research
 - Participate research
- Research infrastructure for the field

Forum Quotes

- "I am so grateful to every person doing this research!!! You are an answered prayer!!! I am wishing, with the greatest of hope, that you will finally find a way to help people like me. What a Godsend that would be!! Thank you!!!"

Forum Quotes (cont.)

- "I was diagnosed with bipolar disorder back in 1999. It has been a rough journey thus far. I believe I am resistant to meds for this horrible condition. I am hoping that being a part of this study will help advance medical treatments for this illness."