

Bipolar Network News

AROUND THE NETWORK: TED AND VADA STANLEY

As the holiday season has come and gone and we mark the end of a most productive year for the Stanley Foundation Bipolar Treatment Outcome Network (SFBN), it seems appropriate to highlight the unique contributions of Theodore (Ted) and Vada Stanley to the Network itself, and to the entire field of clinical research in the bipolar illnesses in general.

Through the Stanley Foundation, Ted and Vada were already making major contributions to the field by funding a large series of annual Stanley Foundation grants under the leadership of E. Fuller Torrey and the NAMI Research Institute. These Stanley Grants did much to encourage investigators in new approaches to bipolar illness, particularly when there was an increasing shortfall of funds from traditional NIMH funding sources targeted for bipolar illness.

In 1989 and again in 1994, the NIMH sponsored special meetings on the problem of underfunding of bipolar illness, but appeared unable to move in the recommended directions. Upon hearing both Drs. Post and McElroy speak at a National Depressive and Manic Depressive Association (NDMDA) meeting in Chicago, indicating that there were large numbers of potential new agents and approaches to be assessed for their therapeutic efficacy in bipolar illness, Ted and Vada offered to help jump start the field with a provision of funds for the completion of one of the NIMH's recommended goals — the creation of a large collaborative network for more rapid investigation of alternatives to lithium in the acute and long-term treatment of bipolar illness. The funding of the Network was prototypical of the Stanley's unique style and gift of both unceasing generosity and a "Can Do" attitude.

Ted grew up in Pennsylvania where he went to high school and then on to the University of Pennsylvania. After initial successful endeavors as a D.J. and radio announcer, he pursued a business career. Vada grew up in southern Ohio and following graduation from high school went on to Ohio University. She worked as one of the first women executives at Procter and Gamble in Cincinnati, and joined another young executive, Ted Stanley, in a new series of ventures. Ted and Vada moved to Connecticut where Ted founded MBI Incorporated. MBI markets a variety of products by direct mail, and their subsidiaries include Easton Press and the Danbury Mint.



Ted Stanley

MBI is recognized as one of the best managed and most successful businesses of its size. It has the remarkable record in its 28 successive years of existence of increasing sales and profits each year, perhaps very much related to an efficient management style, but also to the use of feedback about what works, so that appropriate changes can be instituted in a rapid fashion.

All of us in the Network are most hopeful that we can emulate these virtues in the management of the Bipolar Treatment Outcome Network, and rapidly acquire new data about the best psychopharmacological agents available for the treatment of bipolar illness, determine what works for each patient, and generate new and creative approaches to treatment.

Ted and Vada have a son who is an attorney, and Vada has two other children by a previous marriage, as well as a huge extended family, primarily in



Vada Stanley

Kentucky and Ohio. Her love and caring for people has been evident, not only in her immediate family but also now in the extended Stanley family of the Stanley Foundation Bipolar Treatment Outcome Network and in her unique encouragement of individuals and group endeavors to better understand and treat the major psychiatric illnesses.

Thus, the entire SFBN family of patients, physicians, clinicians, research assistants, and data analysts, as well as participating industry and advocacy groups, are indebted to the Stanleys for their unique support of this first ever collaborative research Network. The new knowledge emanating from the stud-

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ies of the Network, which stays with patients over the long term to establish what really works, has already helped to make an impact on many people's lives, productivity, and health. We hope we can all live up to the wonderful model and standards that the Stanleys have set for us, combining caring for people with a maximum of efficiency and effectiveness. During this holiday season and the New Year, all in the Network give special thanks to the Stanleys for their generosity and caring. ■

NIMH Study Participation Clinical Center, Bethesda, MD

Depressed patients who wish to participate in a protocol to evaluate repeated transcranial magnetic stimulation (rTMS) of the brain should contact Andy Speer at (301) 402-2293; those wishing to be screened for the Lamictal®/Neurontin® protocol (see Life Chart Highlights) should call (301) 496-6827.

Bipolar Network News

Editors-in-Chief:

Robert M. Post, M.D.

Gabriele S. Leverich, L.C.S.W.

Production & Design:

Chris Gavin

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For communication or to be placed on the mailing list, please contact us at:

Bipolar Network News

c/o Stanley Foundation Bipolar Network

5430 Grosvenor Lane

Suite 200

Bethesda, MD 20814

Telephone: (800) 518-SFBN (7326)

Fax: (301) 571-0768

Internet address:

stanley@sparky.nimh.nih.gov



Life Chart Highlights:

Selective response to the anticonvulsant lamotrigine (Lamictal®), but not gabapentin (Neurontin®), or, previously, carbamazepine (Tegretol®)

Figure 1 illustrates the course of illness and differential clinical response of a patient in the three phases of the NIMH double-blind, randomized, crossover protocol comparing six weeks of lamotrigine, gabapentin, and placebo. This patient illustrates substantial clinical improvement during treatment with lamotrigine; exacerbation of depression on placebo; and some initial improvement in depression, followed by increased cycling with gabapentin.

Dr. Mark Frye presented the initial findings from our double-blind, randomized six-week comparison study at the American Psychiatric Association (APA) meeting in May, 1997. He found a 53% response rate to lamotrigine, a 38% response rate to gabapentin, and a 9% response rate to placebo. We have now completed study on 30 patients, with 25 completing evaluable clinical trials. Their overall response rate to lamotrigine was 12 of 25 (48%); gabapentin, 8 of 25 (32%); and placebo, 1 of 19 (5%). Five of 29 (21%) patients responded to both drugs; 11/24 (46%) to neither; 6/24 (25%) to lamotrigine only (such as the patient illustrated in Fig. 1); and 2/24 (8%) to gabapentin only (Frye et al., 1998, in preparation).

The data of Kimbrell and associates (also presented at the APA meeting in 1997) suggest that it is those patients with the greatest deficits in perfusion (blood flow) in the frontal cortex as measured by positron emission tomography (PET) at baseline who are most likely to respond to lamotrigine and gabapentin.

Also at the APA meeting, Dr. Joseph Calabrese and associates reported on an open series of patients, wherein lamotrigine was generally used as an adjunctive therapy, showing substantial antidepressant, antimanic, or mood stabilizing effects. These results are convergent with a series of other studies and posters presented at the Second International Conference on Bipolar Disorder in June, 1997 (see *BNN*, Vol. 3, Issue 3).

How long-lasting the effects of lamotrigine will be and in which subjects it will specifically be effective deserves further clinical investigation. However, these preliminary

findings generated in our blind, randomized trial are consistent with open observations of many others, and with improvement in 11 of 17 (65%) patients on lamotrigine when it was added in an open fashion (level 4) in patients in the Network (Suppes et al, 1998, in preparation).

Lamotrigine has an interesting biochemical mechanism of action profile in which it (along with carbamazepine) has the ability to decrease excitatory amino acid release through blockade of sodium channels. However, other effects of the compound must also be important, since lamotrigine appears to be effective in some patients who are inadequate responders to carbamazepine, such as the patient illustrated in Figure 1. In addition to this blockade of excitatory amino acid release, lamotrigine is reported to be active at serotonin type-3 receptors (5-HT₃) and also to block serotonin reuptake at clinically relevant doses in a manner not entirely dissimilar from the classical antidepressants and serotonin-selective reuptake inhibitors (SSRIs). Thus, it is possible that the preliminary evidence of a useful antidepressant profile of lamotrigine could, in part, be related to its ability, like many other antidepressant modalities, to facilitate serotonin transmission via blockade of reuptake (i.e., the normal mechanism that inactivates serotonin).

In contrast, gabapentin is thought to work primarily by enhancing the effects of inhibitory neurotransmitters such as gamma-aminobutyric acid (GABA). The effects of gabapentin (Neurontin®) in this respect are thought to be, in part, similar to those of valproate, which also increases GABA levels in brain and cerebrospinal fluid. As discussed in a previous issue of the *BNN* (Vol. 2, Issue 2), it is possible that some patients will need the inhibition of excitatory amino acids (such as glutamate) while others will need enhancement of inhibitory processes, such as those mediated via GABA, for effective antidepressant and mood stabilizing effects.

While selective clinical and neurobiological markers of response to these agents have

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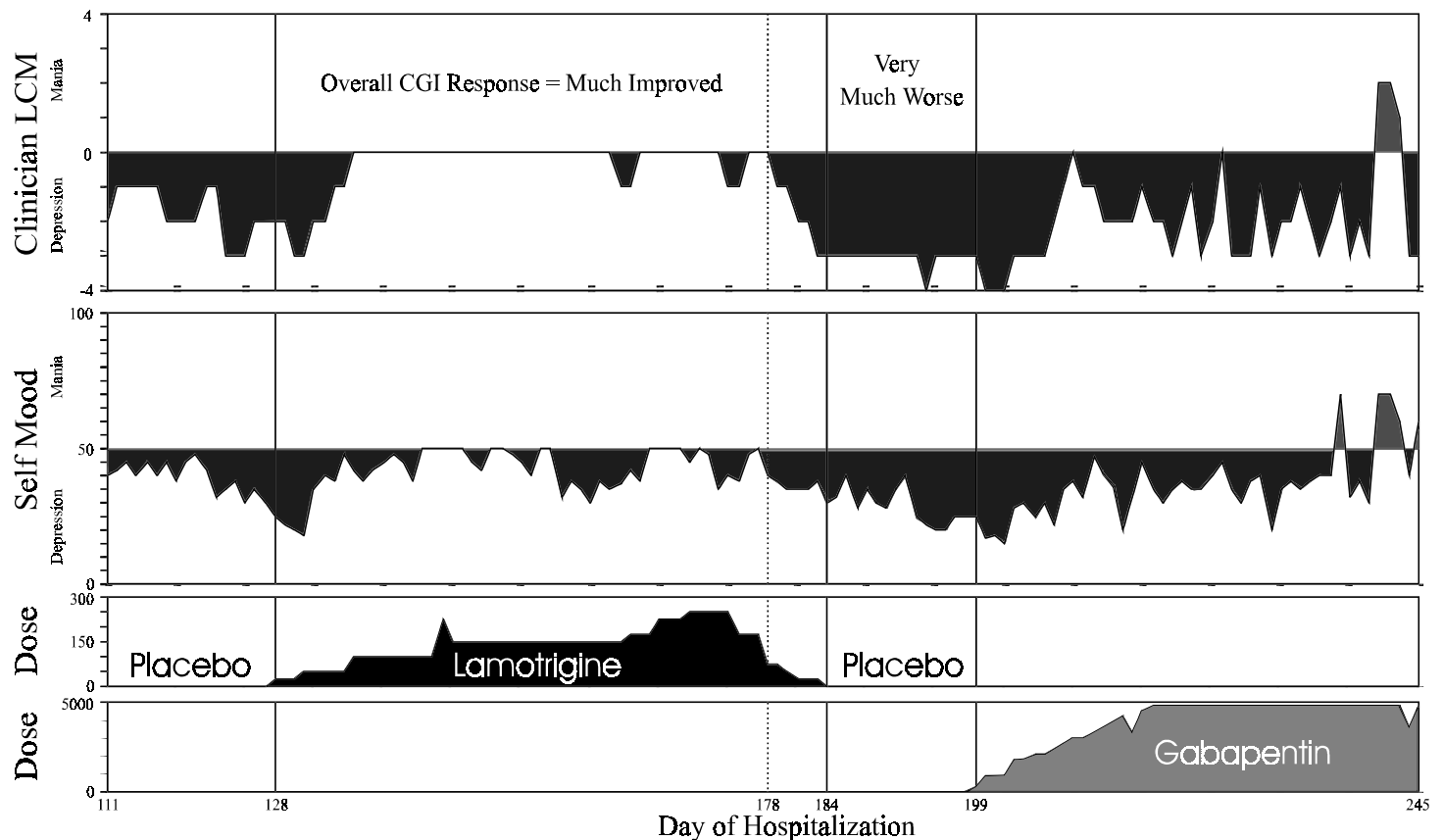


Figure 1: Selective response to the anticonvulsant lamotrigine (Lamictal®), but not gabapentin (Neurontin®), which was associated with increased cycling and dysphoric mania. Mild, moderate, and severe dysfunction from depression (below midline) or mania (above midline) are rated daily on the NIMH-Life Chart Method (NIMH-LCM™) by a nurse (top row) or the patient, both of whom are blind to medication status (bottom two rows). The middle row is the patient's daily mood analogue rating of severity of depression (toward 0) or mania (toward 100).

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not been delineated, the current Life Chart Methodology (LCM) illustration of a clear response to lamotrigine in the absence of a clinically relevant response to gabapentin reinforces the concept (originally seen with carbamazepine and valproate) that lack of response to one mood stabilizing anticonvulsant is not necessarily predictive of lack of response to another. Thus, we have seen some patients respond to carbamazepine and not valproate (and vice versa), and now individual and selective responsivity with the new putative mood stabilizing anticonvulsants lamotrigine and gabapentin.

The Network looks forward to better delineation of the acute and long-term efficacy of lamotrigine, as well as the identification of possible predictors of positive clinical response. ■

Questionnaire on Early Intervention in Childhood Bipolar Illness



The Stanley Foundation Bipolar Network/Early Intervention Initiative (E.I.I.) is seeking information from families interested in bipolar disorder in children. This questionnaire surveys opinions about intervening early with an at-risk child to potentially prevent symptoms from progressing.

In addition, for families with affective illness on both the maternal and paternal sides, the questionnaire asks parents about any symptoms their child or children may be showing already. This information will not only help us identify the symptoms and behaviors associated with bipolar disorder in children, but will also help us design early treatment intervention protocols for this population.

If you are interested in filling out the questionnaire, please call (301) 496-6827 or 1-800-518-SFBN (7326); email us at: stanley@sparky.nimh.nih.gov; or write to: The Stanley Foundation Bipolar Network, 5430 Grosvenor Lane, Suite 200, Bethesda, MD 20814

Meeting Highlights: Brain Imaging

Wayne State University, Detroit, Michigan, September 20, 1997

Department of Psychiatry, Thomas W. Uhde, M.D., Chair

This special meeting on brain imaging was organized to highlight the latest progress in the area of functional brain imaging:

◆ Dr. Harry Chugani began the meeting with an introduction to different methodological approaches to positron emission tomography (PET) and single photon emission computed tomography (SPECT), both of which can provide unique insights into the functioning of the developing and adult brain. Dr. Chugani has pioneered studies of changes in metabolism over an individual's formative years, with the remarkable finding that glucose utilization, i.e. metabolic activity, in many areas of the cortex (and especially the temporal lobe) shows a marked peak between ages four and eight and then a gradual decrement to more adult levels during adolescence. In contrast, brainstem and cerebellar glucose utilization is more level with development.

This information suggests that there is a period in early childhood of markedly expanded nerve terminal sprouting and synaptic density in proportion to glucose utilization, with individuals generating far too many synapses during early development and having to prune these back prepubertally. These changes are also related to age-dependent recovery and reorganization of neuronal function after lesioning, such that recovery from strokes and other brain damage is much easier in childhood than later in adulthood. For example, one of Dr. Chugani's patients with an entire left hemispherectomy (i.e., the surgical removal of the left cerebral hemisphere) in childhood is now a highly functioning hospital administrator. Dr. Chugani's studies of Romanian orphans demonstrate bilateral temporal hypometabolism, especially in the anterior portion of the superior temporal gyrus. It is possible that this faulty development based on inadequate environmental input is related to the decreased bonding and social functioning of these highly maternally and socially deprived individuals.

◆ Diane Chugani, Ph.D., presented new and exciting data on autism based on her technique with alpha-[11C]methyl-L-tryptophan PET imaging to study serotonin turnover. She found that, consistent with diverse literature indicating serotonergic alterations

in patients with autism, her patients appeared to have selective alterations in cortical and cerebellar development. In particular, there was decreased serotonin turnover in the right cerebellum and left frontal cortex, perhaps accounting for the deficient language functioning (mediated by the left frontal cortex) in patients with autism.

Dr. D. Chugani et al. have documented these defects in 30 out of 35 autistic males, although a smaller number of females studied ($n = 5$) showed fewer focal abnormalities. These data are consistent with a postulated defect in the serotonin transporter, which has also now been identified using gene mapping strategies in other groups. Therefore Dr. D. Chugani has begun to study patients with the direct serotonin 5-HT_{1A} agonist buspirone (Buspar[®]) with promising initial results.

◆ Dr. Alan Zametkin reported decreases in cortical glucose utilization in adults with attention deficit hyperactivity disorder (ADHD) with metabolism decrements on the left compared with the right hemisphere. Using a new imaging technique, he also reported that patients with Lesch-Nyhan's syndrome (a syndrome involving mental retardation and profound self-mutilation) have marked decrements in dopamine.

◆ Dr. Gregory Moore gave an introduction and overview to the functional components of magnetic resonance imaging spectroscopy (MRS), showing how this technique will allow us to assay levels of biochemical substances directly in the brains of psychiatric patients. He found, for example, in patients with intractable epilepsy, that decrements in *N*-acetylaspartate (NAA) are highly correlated with decrements in glucose utilization ($r = .64$). Patients with schizophrenia (Bertolino et al., 1996, *Am J Psychiatry* 153:1554-1563), and now bipolar illness (Ketter et al, 1997, *ACNP Scientific Abstracts*: 236), are reported to have lower NAA in the prefrontal cortex. Dr. Moore was also able to measure *myo*-inositol with MRS and found it depleted in proportion to the severity of depression and that it decreased further with acute and chronic lithium administration. These data provide mechanistic support for the recent observations of Belmaker and associates (Benjamin

et al., 1995, *Psychopharmacol Bull* 31:167-175) of the potential antidepressant effects of inositol (12-14 gms/day).

◆ Dr. J. Giedd reported progression in the size of the ventricle in childhood onset schizophrenia as well as a decrement in thalamic volume assessed by magnetic resonance imaging (MRI). He noted Dr. Sue Swedo's recent finding that Sydenham's chorea is associated with group A β -hemolytic streptococcal infections and that this may be associated with increases in the size of the caudate and putamen in association with the development of prepubertal chorea and obsessive-compulsive disorder (Swedo et al., 1997, *Am J Psychiatry* 154:110-112).

◆ Dr. Perry Renshaw reported increases in monophosphodiesterases in mania compared with controls. Deficient choline in the caudate nucleus of depressed patients was associated with prediction of good antidepressant response to fluoxetine (Prozac[®]). He also reported that bipolar patients had decreased choline to creatinine ratios in their temporal lobes, particularly on the left side. He found that patients who relapsed and were rehospitalized had lower choline/creatinine ratios compared with those who did not. These data provide mechanistic support for the preliminary observations of Sachs et al (Stoll et al., 1996, *Biol Psychiatry* 40:382-388) that supplements of large doses of choline may help stabilize mood in treatment refractory rapid cyclers.

◆ Dr. Scott Rauch presented evidence of frontal cortical and striatal alterations in patients with obsessive-compulsive disorder.

◆ Dr. Steven Yager summarized a series of exciting findings in the anxiety disorders, and

◆ Dr. Robert Post summarized the promising effects of repeated transcranial magnetic stimulation (rTMS) of the brain for the treatment of depression, as highlighted in a previous *BNN* (Vol. 2, Issue 3). ■

JOIN NAMI TODAY!

As a member of NAMI you join forces with parents, spouses, siblings, friends, and people who have been diagnosed with a brain disorder. You can join NAMI today by filling out the membership form below and sending it back to us. We need your voice alongside our 160,000 members to work effectively for improved treatment of and more research into these no-fault brain disorders and a better quality of life for those who suffer from them. Become a member today to start making a difference!

Benefits of membership (for all membership categories):

- Subscription to NAMI's bimonthly newsletter, the *Advocate*, which features cutting edge articles about the latest research, treatments, and medications for brain disorders; the status of major policy and legislation at the federal, state, and local levels; and provocative editorials and columns.
- Discounts on books, brochures, and fact sheets with the most current information on brain disorders, medications, and related issues
- A 30-percent discount on the registration fee for the annual NAMI convention.
- Literature from your state organization with specific information about services, grassroots advocacy, and education activities in your area.
- The availability of NAMI's toll-free Helpline, which responds with science-based information about brain disorders and aspects of living with them.

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Individuals and/or families may join NAMI and receive all the benefits of membership listed above.

LOW-INCOME CONSUMER MEMBERSHIP

Individuals with a mental illness may join NAMI at a reduced membership rate and receive all of the membership benefits listed above.

PROFESSIONAL ASSOCIATE MEMBERSHIP

Mental illness service providers are encouraged to join NAMI and receive all the benefits of membership listed above in addition to: *Subscription to NAMI's science newsletter* Decade of the Brain • *Professional Membership certificate* • *50 NAMI brochures with display stand*

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Hospitals, schools, state agencies, and CMHC's are encouraged to join NAMI and receive all the benefits of membership listed above in addition to: *four (4) additional subscriptions to the Advocate* • *Agency Membership certificate* • *100 NAMI brochures with display stand* • *Mental Illness Awareness Week Kit*

I want to become an associate member of NAMI in one of the following categories:

INDIVIDUAL/FAMILY MEMBERSHIP
\$25.00 annual membership fee.

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Your name and a portion of your membership dues will be shared with your state's NAMI organization to provide local support for our efforts.

PROFESSIONAL ASSOCIATE MEMBERSHIP
\$40.00 annual membership fee.

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NAMI STATE ORGANIZATIONS -- CURRENT ADDRESSES AND CONTACT INFORMATION
As Of: November 4, 1997

Alaska AMI

110 W 15th Ave. Suite B
 Anchorage, AK 99501
 Phone1: (907)277-1300
 Phone2:
 Fax: (907)277-1400
 Email: akarni@corecom.net
 Exec. Dir.: Vickie Malone
 President: Jeanette Grasto

Alabama AMI

6900 6th Avenue South Suite B
 Birmingham, AL 35212-1902
 Phone1: (205) 833-8336
 Phone2: (800) 626-4199 (AL only)
 Fax: (205) 833-8309
 Email: AlaAMI@aol.com
 Exec. Dir.:
 President: Ann Denbo

Arkansas AMI- Help and Hope Inc.

4313 W Markham St. Hendrix Hall Rm.
 233
 Little Rock, AR 72205-4096
 Phone1: (501)661-1548
 Phone2: (800)844-0381
 Fax: (501)664-0264
 Email: ARAMI@sprynet.com
 Exec. Dir.: Kathy Schmidt
 President: Ted Newman

Arizona AMI

2441 E Fillmore St.
 Phoenix, AZ 85008-6033
 Phone1: (602) 244- 8166
 Phone2: (800) 626-5022
 Fax: (602) 244-9264
 Email: AZAMI@aol.com
 Exec. Dir.: Sue Davis (Acting)
 President: Elizabeth Ramsey

***California AMI**

1111 Howe Ave. Suite 475
 Sacramento, CA 95825-8541
 Phone1: (916) 567-0163
 Phone2:
 Fax: (916) 567-1757
 Email: gracearni@aol.com
 Exec. Dir.: Grace McAndrews
 President: Jerry Veverka

Colorado AMI

1100 Fillmore St.
 Denver, CO 80206-3334
 Phone1: (303) 321-3104
 Phone2:
 Fax: (303) 321-0912 (ND)
 Email: COLOAMI@sprynet.com
 Exec. Dir.: Carol Staples
 President: Nita Bradford

Connecticut AMI

151 New Park Ave.
 Hartford, CT 06106
 Phone1: (860) 586-2319
 Phone2: (800) 215-3021(region)
 Fax: (860) 586-7477
 Email:
 Exec. Dir.: Maureen Kennedy
 President: Betsy Smith

AMI DC Threshold

422 8th St SE
 Washington, DC 20003-2832
 Phone1: (202) 546-0646
 Phone2:
 Fax: (202) 546-6817
 Email: Kbrown01@sprynet.com
 Exec. Dir.:
 President: Maureen Veech

AMI Delaware

2500 W 4th St. Plz, Ste 12
 Wilmington, DE 19805
 Phone1: (302) 427-0787
 Phone2:
 Fax: (302) 427-2075
 Email: MaPacilio@aol.com
 Exec. Dir.: Mark Pacilio
 President: Richard Patterson

***Florida AMI**

1114-K Thomasville Road
 Mt. Vernon Square
 Tallahassee, FL 32303
 Phone1: (904) 222-3400
 Phone2:
 Fax: (904) 222-5675
 Email: fami@unr.net
 Exec. Dir.: Tony Chapman
 President: Elliot Steele

***Georgia AMI**

1256 Briarcliff Rd NE Rm. 412-S
 Atlanta, GA 30306-2636
 Phone1: (404) 894-8860
 Phone2:
 Fax: (404) 894-8862
 Email:
 Exec. Dir.:
 President: Flo Giltman

Hawaii State AMI

c/o Oahu AMI
 770 Kapiolani Blvd.
 Suite 613
 Honolulu, HI 96813
 Phone1: (808) 591-1297
 Phone2:
 Fax: (808) 591-2058
 Email: OahuAMI@aol.com
 Exec. Dir.: Joyce Shigekuni (Acting)
 President:

AMI of Iowa

5911 Meredith Dr Suite C-1
 Des Moines, IA 50322-1903
 Phone1: (515) 254-0417
 Phone2: (800) 417-0417
 Fax: (515) 254-1103
 Email: amiiowa@aol.com
 Exec. Dir.: Margaret Stout
 President: Jill Downing

Idaho AMI

5400 Franklin Rd., Suite L
 Boise, ID 83704
 Phone1: (208) 331-3533
 Phone2: (800) 572-9940 (ID only)
 Fax: (208) 331-3533
 Email: NAMIID@cyberhighway.net
 Exec. Dir.: Lee Woodland
 President: Mary Robertson

***AMI of Illinois Inc.**

730 E Vine Street Room 209
 Springfield, IL 62703
 Phone1: (217) 522-1403
 Phone2: (800) 346-4572 (IL only)
 Fax: (217) 522-3598
 Email: AMIIL@eosinc.com
 Exec. Dir.: Randy Wells
 President: Tom Lambert

Indiana AMI

PO Box 22697
 Indianapolis, IN 46222-0697
 Phone1: (317) 925-9399
 Phone2: (800) 677-6442 (IN only)
 Fax: (317) 925-9398
 Email:
 Exec. Dir.:
 President: Wayne Fox

Kansas AMI

112 SW 6th PO Box 675
 Topeka, KS 66601-0675
 Phone1: (913) 233-0755
 Phone2: (800)539-2660
 Fax: (913) 233-4804
 Email: KSAMI@sprynet.com
 Exec. Dir.: Ms. Terry Larson
 President: Edward Moymihan

Kentucky AMI

10510 LaGrange Rd Bldg 103
 Louisville, KY 40223-1228
 Phone1: (502) 245-5284
 Phone2: (800) 257-5081
 Fax: (502) 245-9956
 Email:
 Exec. Dir.:
 President: Doris Daulton

Louisiana AMI

PO Box 2547
 Baton Rouge, LA 70821-2547
 Phone1: (504) 343-6928
 Phone2:
 Fax: (504) 343-0055
 Email: Donnam@kmlaw.com
 Exec. Dir.: Donna Mayeux
 President: Mimi Jackson

AMI of Massachusetts Inc.

105 Chauncy St.
 4th Floor
 Boston, MA 02111
 Phone1: (617) 350-3191
 Phone2: (800) 370-9085 (MA only)
 Fax: (617) 350-3450
 Email: ami@gis.net
 Exec. Dir.: Barbara Cantrill
 President: Patricia Lawrence

***NAMI Maryland Inc.**

711 W 40th St. Suite 451
 Baltimore, MD 21211
 Phone1: (410) 467-7100
 Phone2: (800) 467-0075
 Fax: (410) 467-7195
 Email: AMIMD@aol.com
 Exec. Dir.: Brenda K. Hohman
 President: Carolyn Knight

AMI- Maine

PO Box 222
 Augusta, ME 04332-0222
 Phone1: (207) 622-5767
 Phone2: (800) 464-5767 (ME only)
 Fax: (207) 622-5767 (ND)
 Email: AMIMAINE@hotmail.com
 Exec. Dir.: Howard Hymes
 President: William Stubbs

AMI of Michigan

921 N Washington
 Lansing, MI 48906
 Phone1: (517) 485-4049
 Phone2: (800) 331-4264 (MI only)
 Fax: (517) 485-2333
 Email:
 Exec. Dir.:
 President: David Sprey

AMI of Minnesota Inc.

970 Raymond Ave. Suite 105
 St. Paul, MN 55114-1146
 Phone1: (612) 645-2948
 Phone2:
 Fax: (612) 645-7379
 Email: JOLWhalen@aol.com
 Exec. Dir.: John Whalen
 President: Reta Lancaster

* The state organizations indicated by an asterisk have a web page which can be accessed through NAMI's web site: www.nami.org

***Missouri Coalition of AMI**

230 W Dunklin St., Rm. 204
Jefferson City, MO 65101
Phone1: (573) 634-7727
Phone2: (800) 374-2138
Fax: (573) 761-5636
Email: Keele@aol.com
MOCAMI@aol.com
Exec. Dir.: Cindi Keele
President: Steve Wilhelm

Mississippi AMI

5269 Keele St
Jackson, MS 39206
Phone1: (601) 981-4491
Phone2: (800) 357-0388
Fax: (601) 981-4910
Email:
Exec. Dir.: Mary Ann Renz
President: Jean Kutack

MONAMI

PO Box 1021
Helena, MT 59624
Phone1: (406) 443-7871
Phone2:
Fax: (406) 443-1592
Email:
Exec. Dir.:
President: Mitzie Anderson

***North Carolina AMI**

4904 Waters Edge Dr. Suite 152
Raleigh, NC 27606
Phone1: (919) 851-0063
Phone2: (800) 451-9682 (NC only)
Fax: (919) 851-5989
Email: ncami4u@aol.com
Exec. Dir.: Beth Melcher, Ph.D.
President: Richard Greb

North Dakota AMI

1809 S. Broadway Unit H
Minot, ND 58701
Phone1: (701) 838-0166/
(701) 852-5324
Phone2: (800) 239-2472
Fax: (701) 852-1742
Email: ndami@minot.ndak.net
Exec. Dir.: Janet Wentz
President: Roxanne Jensen

Nebraska AMI

Rt. 3, Box 12C
Kearney, NE 68847
Phone1: (308) 865-8729
Phone2: (308) 237-2696
Fax: (308) 865-8186
Email: Ljensen@unmc.edu
Exec. Dir.:
President: Linda Jensen

AMI of New Hampshire

10 Ferry Street Unit 314
Concord, NH 03301-5004
Phone1: (603) 225-5359
Phone2: (800) 242-6264 (NH only)
Fax: (603) 228-8848
Email: NHAMI@aol.com
Exec. Dir.: Susan Turner
President: Mrs. Rick Sherman

New Jersey AMI

1562 Route 130
North Brunswick, NJ 08902
Phone1: (908) 940-0991
Phone2:
Fax: (908) 940-0355
Email: AMINJ@sprynet.com
Exec. Dir.: Sylvia Axelrod
President: Harry S. Gallagher

AMI of New Mexico

PO Box 3086
Albuquerque, NM 87190
Phone1: (505) 260-5429
Phone2:
Fax:
Email:
Exec. Dir.:
President: Ms. Patricia Reilly

***AMI of Nevada**

2600 Spinaker Dr.
Reno, NV 89509
Phone1: (702) 825-7023
Phone2:
Fax: (702) 825-3965
Email: RJohn20378@aol.com
Exec. Dir.:
President: Rosetta Johnson

***AMI - NYS**

260 Washington Ave.
Albany, NY 12210-1312
Phone1: (518) 462-2000
Phone2: (800) 950-3228 (NY only)
Fax: (518) 462-3811
Email: aminys@crisny.org
Exec. Dir.: Glenn Liebman
President: Jerry Klein

AMI of Ohio

979 S High St.
Columbus, OH 43206-2525
Phone1: (614) 444-2646
Phone2: (800) 686-2646
Fax: (614) 445-6503
Email: kmagaw@sprynet.com
Exec. Dir.: Krista Magaw
President: Velma Beale

Oklahoma AMI

200 NW 66th St. Suite 925
Oklahoma City, OK 73116
Phone1: (800) 583-1264
Phone2: (405) 848-4330
Fax: (405) 848-4330
Email: OAMI@oklahoma.net
Exec. Dir.: Kari Czynpinski
President: Ms. Jerry Bridge

***Oregon AMI**

3300 Market St. NE, Ste 11
Salem, OR 97302
Phone1: (503) 370-7774
Phone2: (800) 343-6264 (OR only)
Fax: (503) 370-9452
Email: cavey@sprynet.com
Exec. Dir.:
President: Harold Kulm

AMI of Pennsylvania

2149 N 2nd St.
Harrisburg, PA 17110-1005
Phone1: (717) 238-1514
Phone2: (800) 223-0500 (PA only)
Fax: (717) 238-4390
Email: amiofpa@ezonline.com
Exec. Dir.: David Dinich
President: Lorretta Ferry

AMI Of Puerto Rico

Fundacion Puertorriquena Pro Salud
Mental PR-AMI, Inc.
P.O. Box 9022569
Viejo San Juan, PR 00902-2569
Phone1: (787) 745-1760
Phone2:
Fax: (787) 286-0721
Email: PRAMI5185@aol.com
Exec. Dir: Louis Arias
President: Silvia J. Pedrosa de Arias,
PhD.

AMI of Rhode Island

1255 N. Main St.
Providence, RI 02904
Phone1: (401) 331-3060
Phone2: (800) 749-3197
Fax: (401) 274-3020
Email: AMIofRI@aol.com
Exec. Dir.: Bill Emmet
President: Ann MacDonald

South Carolina AMI

1415 Broad River Rd
PO Box 21586
Columbia, SC 29221-1580
Phone1: (803) 561-0000
Phone2: (800) 788-5131
Fax: (803) 561-9840
Email: scam@netside.com
Exec. Dir.: Frances Sims
President: Terry Turner

South Dakota AMI

PO Box 221
Brookings, SD 57006
Phone1: (605) 697-7210
Phone2: (800) 551-2531
Fax: (605) 692-6132
Email: sdamiyoc@brookings.net
Exec. Dir.: Donna Yocom
President: Helen Dafee

***Tennessee AMI**

5410 Hornberg Dr. Suite 4
Knoxville, TN 37919
Phone1: (423) 602-7900
Phone2: (800) 467-3589
Fax: (423) 602-7809
Email: TAMI@kormet.org
Exec. Dir.: Joyce Judge
President: George Haley

Texas AMI

1000 E 7th St. Suite 208
Austin, TX 78702-3257
Phone1: (512) 474-2225
Phone2: (800) 633-3760
Fax: (512) 320-8887
Email: TEXAMIEB@aol.com
Exec. Dir.: Eldon Baber
President: Joe B. Lovelace

Utah AMI

4535 S. 5600 West
West Valley City, UT 84120
Phone1: (801) 963-7337
Phone2:
Fax: (801) 967-4442
Email:
Exec. Dir.: Marilyn Mitchell
President: Harvey Hirschi

***Virginia AMI**

P. O. Box 1903
Richmond, VA 23218
Phone1: (804) 225-8264
Phone2: (888) 486-8264
Fax: (804) 643-3632
Email: VaAMI@aol.com
Exec. Dir.: Val Marsh
President: Richard T. Greer

AMI of Vermont

230 Main St. Room 203
Brattleboro, VT 05301-2840
Phone1: (802) 257-5546
Phone2: (800) 639-6480 (VT only)
Fax: (802) 257-5886
Email: amivt@sover.net
Exec. Dir.: Ben Coplan
President: Clare Munat

State of Washington AMI (SWAMI)

4305 Lacey Blvd., Suite 2
Lacey, WA 98503
Phone1: (360) 491-5715
Phone2: (800) 877-2649
Fax: (360) 493-0431
Email: swami@olywa.net
Exec. Dir.:
President: Herb Larson

AMI of Wisconsin Inc.

1410 Northport Dr.
Madison, WI 53704-2041
Phone1: (608) 242-7223
Phone2: (800) 236-2988 (WI only)
Fax: (608) 242-7225
Email: AMIWISC@aol.com
Exec. Dir.: Donna Wrenn
President: Robert Beilman, MD

West Virginia AMI

PO Box 2706
Charleston, WV 25330-2706
Phone1: (304) 342-0497
Phone2: (800) 598-5653
Fax: (304) 342-0499
Email: WVAMI1@aol.com
Exec. Dir.: Carolyn J. Nelson
President: Frankie Capocetalo

Wyoming AMI

656 Granite Dr.
Rock Springs, WY 82901
Phone1: (307) 362-3333
Phone2:
Fax:
Email:
Exec. Dir.:
President: Robert Green

* The state organizations indicated by an asterisk have a web page which can be accessed through NAMI's web site: www.nami.org

Bipolar Network News

Stanley Foundation Bipolar Network
A Program of the NAMI Research Institute
5430 Grosvenor Lane
Suite 200
Bethesda, Maryland 20814
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