

# INNOVATIONS IN WOMEN'S MENTAL & REPRODUCTIVE HEALTH

Women of All Ages and their HCPs, Desire Treatment Options Designed to Address their Unique Mental and Reproductive Health Needs Effectively and Safely



## **Clinically Proven Effectiveness for:**

- Depression and Anxiety
- Including in and Around Pregnancy
- PMS/PMDD & Menopause
- High or Low Risk Prenatal Vitamin

# EnBrace HR Small Gel Cap

"EnBrace HR contains the exact clinically recommended vitamin coenzymes, mineral cofactors and omegas needed to normalize uterine and CNS intracellular methylation for normal mental and reproductive clinical outcomes."

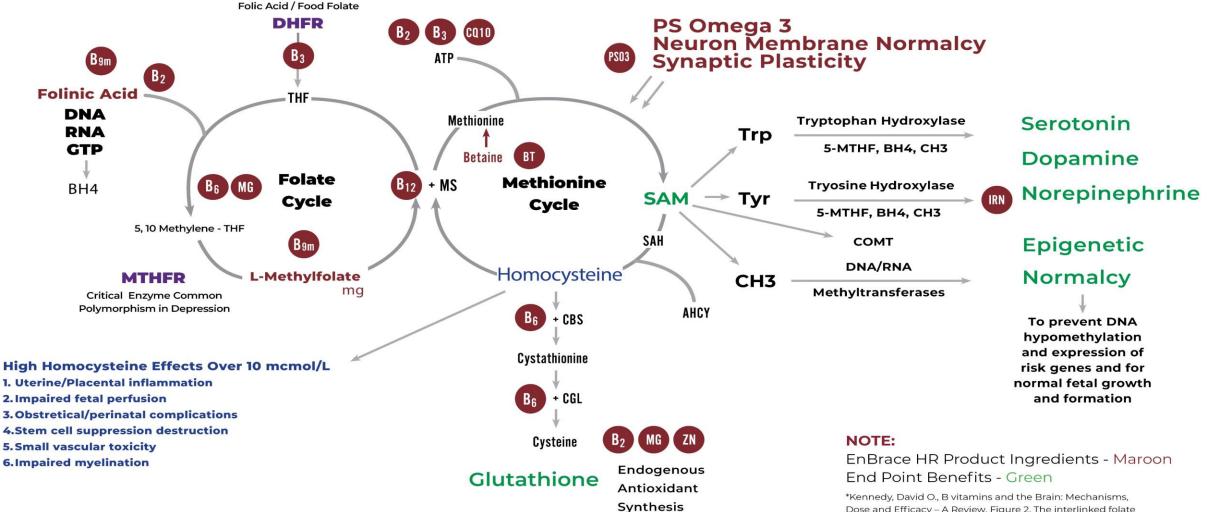
Towny Robinson, CEO JayMac Pharmaceuticals Inventor of EnBrace HR

#### Most Diverse Natural Folates: FDA 15mg DFE

L-Methylfolate Magnesium	—— 7mg
Folinic Acid	2.5mg
Folic Acid	lmg
<b>B Vitamins in their Bioactive Coenzyme Form</b>	
B12 (Adenosylcobalamin)	50mcg
B6 (Pyridoxal-5-Phosphate)	25mcg
B1 (Thiamine Pyrophosphate)	—— 25mcg
B2 (Flavin Adenine Dinucleotide)	25mcg
B3 (Nicotinamide Adenine Dinucleotide)	25mcg
Bioperine (B Vitamin Bioenhancer)	25mg
Minerals in their Bioactive Cofactor Form	
Magnesium Ascorbate	24mg
Magnesium L-Threonate	1mg
Zinc Ascorbate	lmg
Iron (Ferrous Glycine Cysteinate)	13.6mg
<u> Phospholipid Form – Brain Ready</u>	
PS-Omega-3 (Phosphatidylserine, EPA, DHA) ———	23.3mg
Absorption Enhancer	
Sodium Citrate	10mg
<u>Energizer</u>	
CoQ10	500mcg

# **Intracellular Biochemical Root Cause Methylation Chart**

EnBrace HR Normalizes All Co-Enzyme/Cofactor Deficiencies and Methylation Disruption, No Matter the Cause and Converts to Normal Mental and Reproductive Health Outcomes Based on Well-Controlled Clinical Trials.



Dose and Efficacy – A Review, Figure 2. The interlinked folate and methionine cycles.

# **CLINCAL STUDY OVERVIEW**

Correlation of Clinical Response With Homocysteine Reduction Durn. Therapy With Reduced B Vitamins in Patients With MDD Who Are Positive for MTHFR C677T or A1298C Polymorphism: A Randomi, J. Double-Blind, Placebo-Controlled Study

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W. Mech, ML and Andrew Farah, MD, DFAPAh.\*

Point, NC 27262 (Brian farahigrunchealth Uncledu)

 Objective: This study: designed to evaluate the efficacy and safety of reduced: training as monotherapy in adults with major depress: scorder (MDD) who were also positive for at ler insthyleneteritydydrofolate reductase (MTNFR) potential associated with depression and furth composition of the store of the store of the store will lower homocysteine in a majority of chinically responding patients.
 Methods: 330 adult patients with MDD (DSM 5) and

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RACT

Andy Farah,

Homocysteine metabolism, or the carbon-1 cycle, plays a key role in the synthesis of monoamines by providing methyl group donation for the production of norepinephrine and dopamine. Reduced, or metabolized, B vitamins are necessary coenzymes in the carbon-1 cycle and in various other enzymatic steps involved in monoamine synthesis, such as the generation of tetrahydrobiopterin, a cofactor for both tryptophan hydroxylase

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# THE JOURNAL OF CLINICAL PSYCHIATRY

# **330 ADULT PATIENT** RANDOMIZED DOUBLE BLIND PLACEBO CONTROLLED STUDY

#### **OBJECTIVE:**

This 8-week study was designed to evaluate the efficacy and safety of EnLyte/EnBrace HR as monotherapy in adults with major depressive disorder (MDD) who were also positive for at least 1 methylenetetrahydrofolate reductase (MTHFR) polymorphism associated with depression and further test the hypothesis that EnLyte/EnBrace HR will lower homocysteine in a majority of clinical responding patients.

#### MAY 2016

Correlation of Clinical Response With Homocysteine Reduction During Therapy With EnLyte/EnBrace HR in Patients With MDD Who Are Positive for MTHFR C677T or A 1298C Polymorphism - Andrew Farah, MD

#### 1) Mean MADRS Symptom Score of EnBrace HR Versus Placebo



#### 2) 30% Reduction in Homocysteine Levels (Compared to Placebo)

#### NO SIDE EFFECT WAS REPORTED AT GREATER RATE THAN PLACEBO

**ONSET OF ACTION: 2 WEEKS** 

# **ENBRACE HR STUDY**

www.study included women with histories of MDD who were planning regnant <28 weeks. Group 1 participants were well (not in depressive episodes) and planned antidepressants for pregnancy Group 2 participants were depressed at bateline. Prima bies included MDD relapse and depressive symptoms, verified with the Mini Internation isc interview and the Montgomery-Asberg Depression Rating Scale (MADRS), respective

folic acid metabolism and inflammation were collected.

» 1 participants (N=11; well at baseline) experienced no significant decreases in MADRS score is of depressive relapse (27.3%; p=0.005) than expected when compared to historical control depressed at baseline) experienced significant improvements in MADRS scores (p=0.001), w

mproving >50% and one improving 33.3%. One adverse event occurred, a hospitalization

Results suggest EnBrace HR is a well-tolerated intervention with potential efficacy for t

sd treatment of perinatal depression. Larger controlled trials are necessary.

#### uction

ssive Disorder (MDD) and Major Depressive Episodes (MDEs) in Women:

rs approximately twice as often in women compared to men.12

gh risk for MDEs during pregnancy and the postpartum period.3 somen often discontinue standard antidepressant medications prior to or during pregnancy

few evidence-based alternatives to antidepressant medications for the treatment and preve uring pregnancy, leaving pregnant women and clinicians with the clinical dilemma of weighin al exposure to medication against impact of untreated maternal depression.

suggests various folate forms including folic acid, folinic acid, and methylfolate may have

ssant effects.<sup>#12</sup> These interconvertible folate forms constitute the one-carbon cycle and are 2 to exert an antidepressant effect by impacting neurotransmitter synthesis<sup>10</sup> folate must be converted to its active form, methylfolate, for use in the body, polymorphism 2 folate methylation may limit the efficacy of folate as an intervention targeting MDD-sa plate may be more readily absorbed in the brain than folate, and methylfolate has potential as ifoliate treatment in early trials has been found to induce significant improvement in depression ms both when used as an adjunct to antidepressant therapy and when used as a monotherapy elated compounds reduce rates of neural tube defects and improve child neurodevelopments strated composition resource rates on mental topic operation and improve and neuropercopring est, conferring benefits and minimizing potential risks of antidepressants during pregnancy.<sup>2</sup>

e HR is a prescription prenatal/postnatal dietary management product that contains 5.53 mg L folate and other folate derivatives (1 mg folic acid, and 2.2 mg folinic acid), optimal for a population

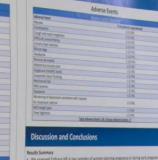
igh rates of polymorphisms that affect folic acid metabolism.

Group 2: Depressed at Baseline: Acute Treatment Group thods Inclusion Criteria:

Group 1: Well at Baseline; Relapse Prevention Group MDD as primary diagnosis Have prescribing clinician eive or <28 weeks pt in Criteria: Planning to cont 4DD as primary diagnosis start of new ontolepressant medicati concerve or <28 weeks pregna Love prescribing clinician ressed, as verified by ARNI

No dose inc.

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Native Handlah or other Purify hims	16.90
	0
Ethnicity American Indian or Alaska Native	Z (10.5%)
Ethnicity Robert Lan Indian or Raska Native	0
Non-Hispanic or non-Latina	
	11/04/201
Mantal status	1 (5.9%)
Married	
	16/04/2%
Separated/diversed/widowed	15.96
Never mamed/ungle	2 (10.3%)
Some Nigh school	0
High school at received GED	0
Some college or Associate Degree	1(5.9%)
Graduated college (BA, BS)	4 (21.1%)
Master's Degree	11 (57.9%)
Doctoral Degree (PhD, MD, etc.)	105.00
Employment status	
Full-or part-time work	17* (89.5N)
Konangkar	2*(10.9%)
Student	2*(10.9%)
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Programcy status	12 (63.2%)
Planning pregnancy/Trying to zonceive	7 (36 9%)
Pregnant al envolment	
Assisted Reproductive Technology (ART)	\$ (26.7%)
Use for conception/antempter conception	14 (73.7%)
No use of ART	
Programcy events during trial	4 (21.1%)
Became prigram	2/(2.5%)
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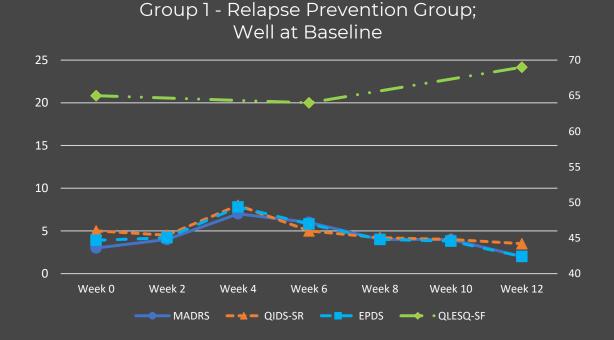




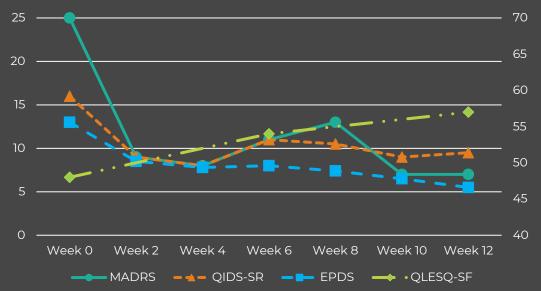




### EnBrace HR For The Treatment and Prevention of Depression in Women Trying to Conceive and During Pregnancy Marlene P. Freeman, MD et al, Annals of Clinical Psychiatry February 2019



#### Group 2 - Acute Treatment Group; Depressed at Baseline



#### CONCLUSION

Study results suggest EnBrace HR is a novel and well tolerated intervention with efficacy for the prevention and treatment of depression among women planning pregnancy and who are pregnant. Figure 1. The aim for Group 1 was to prevent depression relapse, and the aim for Group 2 was to improve depression symptoms, measured through several mood and quality of life questionnaires. Trends shown by group for the primary mood outcome measure, the MADRS (Montgomery-Asberg Depression Rating Scale) in dark blue; for secondary mood measures, the QIDS-SR (Quick Inventory of Depressive Symptomatology-Self Report) in orange and the EPDS (Edinburgh Postnatal Depression Scale) in light blue; and for a quality of life outcome, the QLESQ-SF (Quality of Life Enjoyment and Satisfaction Questionnaire -Short Form) in green. Group 1 experienced no significant changes in any of the four measures, and Group 2 experienced significant improvements in the mood questionnaires but not the quality of life questionnaire. All ANOVAs indicating significance are reported in Table 3.

## PMS

#### (Premenstrual Syndrome)

Mild/Moderate

#### Menopause

Cyclic hormonal changes of the menstrual cycle causes fluctuations of serotonin levels leading to adverse symptomology – Mayo Clinic –

# PMDD

(Premenstrual Dysphoric Disorder)

Severe (DSM-5)

Tension/Anxiety, Depressed Mood – Irritability/Anger – Appetite Changes – Cravings – Insomnia – Social Conflict Withdrawal– Feeling overwhelmed – Hopelessness – Hot Flashes

#### **Biochemical Wellness**

EnBrace HR normalizes serotonin levels and is an effective, all-natural, safe, root cause monotherapy option or adjunct to SSRIs, oral contraceptives, NSAIDs, diuretics, and/or HRT in the prevention or treatment of PMS/PMDD/MENOPAUSE.

Dietary B Vitamin Intake and Incident of Premenstrual Syndrome. Manson et al. Am J Clin Nutr. 2011

#### Clinical Result Example

A 17-year-old on Paxil for PMDD experienced side effects and withdrawal symptoms after discontinuing Paxil. She was hesitant to resume antidepressant medications after presenting again with PMDD depression, and a MADRS of 20. The patient elaborated she was "putting on a happy face". She was prescribed EnBrace HR and within 4 weeks her MADRS dropped from 20 to 6.

> Coenzyme Treatment of Childhood and Adolescent Depression: A Case Series. Farah et al. Clinical Psychiatry Vol 7 #5S3:93 April 2021

"For the emotional dysregulation of PMS, PMDD, and Menopause we turned first-line to the natural, broad spectrum B vitamin coenzymes and mineral cofactor agent, EnBrace HR. This product has provided safe and effective relief for countless patients with female hormonal fluctuations or deficiency"

> Andrew Farah, MD Attending Psychiatrist, Novant Health System, Winston-Salem, NC Medical Director of Strategic Mental Health Interventions



Provides the most diverse combination of folates and methylation vitamin coenzymes and mineral cofactors for maximum prevention of NTDs and other birth defects in low or high-risk pregnancies.

An optimal serum folate level for birth defect prevention should be reached 4 weeks prior to conception, 50% of pregnancies are unplanned.

#### **Mechanism of Cellular Action**

Normalize impaired cellular "homocysteine/methionine" metabolism disorders than can lead to placental inflammation, impaired fetal perfusion, impaired nucleotide and DNA synthesis and faulty epigenetic expression.

# To Prevent or Reduce Risk For:

- \* All Neural Tube Defects
- \* Congenital Heart & Kidney Disorders
- Down Syndrome
- ADHD
- **\*** Autism Spectrum Disorders
- **\*** Orofacial Clefts
- Drug Related Birth Defects
- Pregnancy Complications
- \* Congenital Structural Malformation

#### EnBrace HR Helps Eliminate the Risk for Adverse Pregnancy Outcomes, NTDs, and Other Birth Defects Associated with the effects of MTHFR Gene Variant

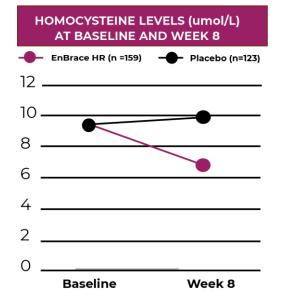
MTHFR gene variants prevent the production of the enzyme that converts folate to methylfolate leading to high homocysteine and low neurotransmitter production causing negative reproductive and CNS outcomes.

# **60%** of women have the heterozygous form of MTHFR gene variant

- **25%** of women have the homozygous form of MTHFR gene variant
- **50%** of folate related NTDs and other birth defects are linked to MTHFR
- **85%** of depressed and addicted women have an MTHFR gene variant

MTHFR Polymorphisms are Documented Risk Factors for these Adverse Pregnancy Outcomes:

- > Miscarriage
- Perinatal/Post-Partum Depression
- Pre-Term Delivery
- Low Birth Weight
- Pre-Eclampsia
- Placental Inflammation
- Impaired Fetal Perfusion
- Chromosomal Abnormalities



EnBrace HR is proven in a 330 patient, randomized, controlled trial in patients with an MTHFR variant to lower homocysteine 30% compared to placebo group.

Andrew Farah, MD et al. Journal of Clinical Psychiatry, May 2016

30% REDUCTION IN HOMOCYSTEINE LEVELS Compared to Placebo

# **HOW TO PRESCRIBE**



STEP

Fill in prescriber and patient information and then hit "submit"

### CLICK HERE

#### WE WILL OFFER YOUR PATIENT THEIR FIRST 60 DAYS FOR \$60

STEP

We will also provide them with the insurance steps and help determine the most cost-effective option moving forward

#### IF IT'S COVERED ON INSURANCE, WE WILL CONTACT YOUR OFFICE WITH PRESCRIBING INFO

STEP

If your patient does not have coverage or has a high co-pay, we will offer our discounted cash-pay option for EnBrace HR. No further action is needed for your office.

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