MAKE MENTAL HEALTH PART OF YOUR CHECKUP

Fall 2019

YOUR DIET COULD HELP FIGHT DEPRESSION

CAN A MOBILE GAME HELP TREAT ADDICTION?

# The Magazine of Brigham and Women's Hospital HEALTH

ENTITLED to HOPE

**ODYSSEYS IN MENTAL HEALTH** 

# Brigham

Fall 2019

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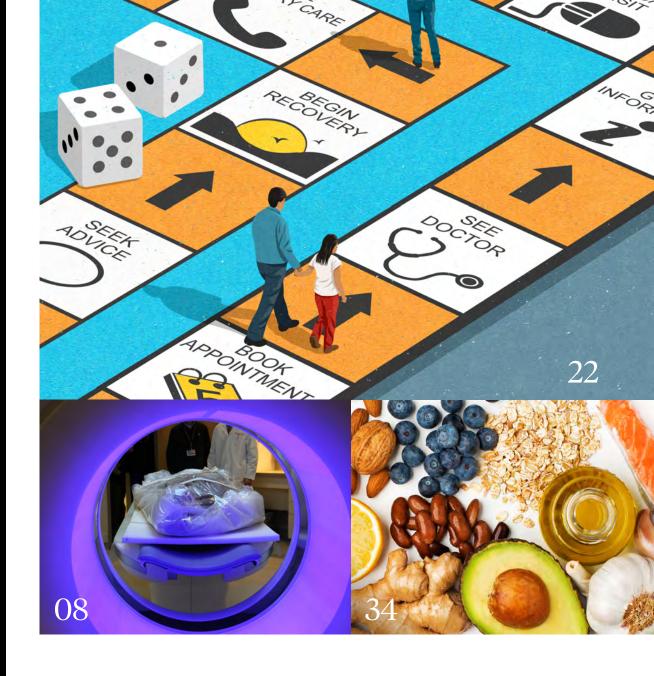
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# "HOPE HAS TWO BEAUTIFUL DAUGHTERS. THEIR NAMES ARE ANGER AND COURAGE; ANGER AT THE WAY THINGS ARE, AND COURAGE TO SEE THAT THEY DO NOT REMAIN THE WAY THEY ARE."

# As we worked on this issue of Brigham Health

magazine focused on mental health, I often thought of the quotation above, most frequently attributed to St. Augustine of Hippo, the  $4^{\rm th}$  century theologian and philosopher.

The deeper we probed this topic, the more we, too, grew angry with how routinely people with mental illness are stigmatized, marginalized, discriminated against, and, especially in this country, incarcerated. And yet, the more people we interviewed, the more we encountered astonishing courage and hope.

In her brilliant book, *Hope in the Dark*, Rebecca Solnit gives a 21<sup>st</sup> century spin on St. Augustine's definition: "Hope is not a lottery ticket you can sit

on the sofa and clutch, feeling lucky. It is an ax you break down doors with in an emergency...To hope is to give yourself to the future—and that commitment to the future is what makes the present inhabitable."

From the people we met throughout the Brigham Health system, we learned about axes of hope breaking down doors that stand in the way of people needing and seeking mental health care.

What are your stories of hope, anger, and courage related to mental illness? How are you wielding your ax of hope? Tell us at brighamhealthmag@partners.org.





## **SPECIAL FEATURE**

12

# **ENTITLED TO HOPE: ODYSSEYS IN MENTAL HEALTH**

In this extended feature, patients, providers, and researchers share stories of disparities and perseverance in navigating the mental health care system—and what they have discovered along the way.

14

# Assessing the Challenge

Mental health disorders are common in every part of the world. Stigma, provider shortages, and other stumbling blocks prevent many people from seeking or receiving care.

18

# A Broken Systemby Design

How do patients and providers find their way through a mental health care system filled with barriers? **2**2

# Navigating Obstacles

Innovators at the Brigham are creating new ways to help people access mental health services where and when they need them. **26** 

# Weathering Multiple Illnesses

**30** 

**Arriving** 

at Hope

Living with a

mental health

disorder can be

tough. Support

systems help

many people

find resilience

and hope for

the future.

Physical illness and mental health issues are strongly linked—and expert care makes all the difference for those grappling with both.

# **DEPARTMENTS**

02 Engage

04 Team Board

06 The Rundown

08 Catalyst

10 The Brigham Way

34 Wellness

36 Last Shot

#### ON THE COVER

Illustration by John Holcroft



#### **DON'T MISS OUR WEB EXTRAS**

# **JOIN THE CONVERSATION**

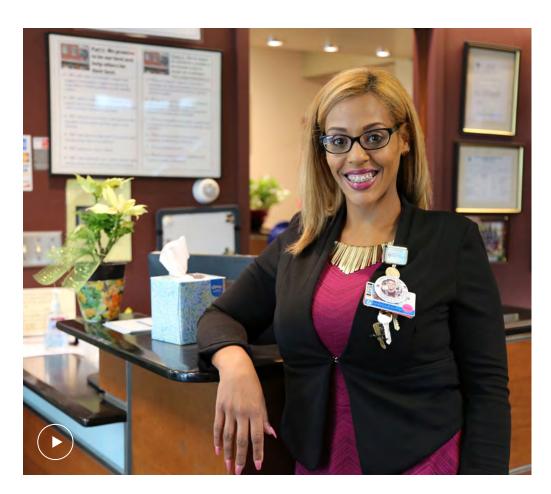
You can now read Brigham Health magazine wherever you go at brighamhealthmag.org, where you will find videos and bonus content not available in print. And don't forget to take our online guiz—we want to hear from you! Talk to us: brighamhealthmag@partners.org



# **ONLINE QUIZ**

# **CAN YOU SEPARATE THE FACTS FROM MYTHS ABOUT MENTAL HEALTH DISORDERS?**

Take our quiz to test your knowledge: brighamhealthmag.org/quiz



# **HEAR FROM THE EXPERT**

# **Turning Grief into Hope**

When gun violence changed Yoselin Rodriguez's life forever, support from her loved ones and community helped her find strength, healing, and courage. brighamhealthmag.org/grieftohope

## **PATIENT STORIES**



# A NEW LEAP

By safely transplanting organs from donors with hepatitis C, Brigham surgeons and scientists are expanding opportunities to help more patients currently waiting for an organ donation. brighamhealthmag.org/newleap

# **HEAR FROM THE EXPERTS**



# **A CHANGING CLIMATE FOR HEALTH**

Is climate change making people sicker? The Osher Center for Integrative Medicine invited multidisciplinary experts to explore this question together.

brighamhealthmag.org/climatehealth



### **HEAR FROM THE EXPERTS**

# **BRIGHAM HEALTH AUDIO STORIES**

Featuring expert advice and thought-provoking discussion from the Brigham's rising stars, this audio series explores buzzworthy trends and topics for healthy living. brighamhealthmag.org/



# Little Hats, Big Hearts

To raise awareness for congenital heart disease, Brigham staff, nurses, and doctors made 500 red hats for their newborn patients.

brighamhealthmag.org/redhats

**PATIENT STORIES** 

audiostories

# **CURBING ATHLETE ADDICTION**

Student athlete Alex White describes how the pressure to get back into the game after an injury can lead to dependence on prescription pain medications.

brighamhealthmag.org/athletepain



TODAY'S TOPIC

# **IF YOU COULD CORRECT COMMON MISPERCEPTIONS** OF MENTAL ILLNESS, WHAT WOULD **YOU SAY?**

Clinicians and scientists from Brigham and Women's Hospital discuss how misunderstandings impede access to-and acceptance of-mental health care.



"Patients and providers often think they just need to find the right medication. But sweat equity is important. Recovering from major depression is more like recovering from major surgery, where there's an expectation you'll do rehab to build strength."

Jane Erb, MD, director of clinical and education initiatives, Outpatient Services, Department of Psychiatry

"Mental illnesses and addiction are not like infections that can be treated and cured. They're more like diabetes or obesity. They require a comprehensive treatment plan and ongoing support over a period of time."

Joji Suzuki, MD, director, Division of Addiction Psychiatry, Department of Psychiatry







"Mental health conditions are largely misunderstood. Many people correlate mental illnesses with specific behaviors such as violence or laziness, but these associations are unfounded."

Sydney Burelle, LICSW, lead clinical social worker, Brigham Emergency Department



"It's not the person's fault. You would never tell someone wheezing with asthma to pull themselves up by their bootstraps or consider them weak."

David Silbersweig, MD, chair, Department of Psychiatry

"There's no scientific reason to differentiate mental health from other kinds of health. Mental illnesses are physical illnesses. The body and mind work together. If one's not well, the other isn't either."

Natalie Dattilo, PhD, MHA, director of psychology, Department of Psychiatry





"Many people suffer needlessly with mental health issues, avoiding care due to the stigma. Mental illness can be treated, and individuals can live meaningful lives. It is vital that we're all open to learning about and discussing mental health."

Barbara Lakatos DNP, PMHCNS-BC, APRN, program director, Psychiatric Nursing Resource Service, Department of Nursing



"Depression is one of the most common complications of pregnancy and postpartum, affecting nearly one in five women. Untreated depression can significantly affect the health of the woman, child, and family."

Leena Mittal, MD, director, Division of Women's Mental Health, Department of Psychiatry

# Zara Cooper, MD

Kessler Director of the Center for Surgery and Public Health, Department of Surgery, Brigham and Women's Hospital; Associate Professor of Surgery, Harvard Medical School

#### **DEGREES**

BA, Northwestern University

MD, Icahn School of Medicine at Mount Sinai

#### **FAVORITE SAYINGS**

- Tikkun olam. [translated from Hebrew: repair of the world]
- We are standing on the shoulders of giants.
- To whom much is given much is expected.

# On her unique perspective from the intersection of trauma, surgery, and palliative care

# What prompted you to go into medicine?

I was working in advertising and volunteering for an organization raising funds for ALS research. I interviewed a neurologist researcher for a story on our website, and the way he talked about his patients was so compelling. When I told my dad, who owned an advertising agency, that I wanted to be a doctor, he couldn't believe it. He said, "What are you doing? You have a good job! Can't you just go volunteer in a soup kitchen?"

#### How did you get interested in trauma surgery?

I've always been interested in public health, and I have combined degrees in medicine and community medicine. During my residency, I came to see how trauma intersects surgery and public health and discovered I love taking care of patients and families when they're at their most vulnerable. Initially, I was surprised to find myself interested in trauma surgery. Then I saw how trauma surgeons manage the overall care of patients with injuries to multiple organs and body systems, so that put me in the middle of work—and people—I care deeply about.

# Does mental health intersect with your work?

There's a lot of overlap between trauma and mental health. Like many of our colleagues, we are seeing the devastating brunt of the opioid epidemic. So many of our patients are injured by drunk driving or assault, or they themselves have significant mental health issues. At any given time, I would say a third of the patients on our trauma service have major mental health issues. And there are probably many more with underlying mental health issues.

# What is a typical knowledge gap about your work?

One is that palliative care is all about death and end-of-life care. Palliative care is a medical specialty focused on quality of life as defined by the patient and their family at any phase of illness. What are the patient's priorities and values? How do they define their quality of life? What outcomes are most meaningful to them? All these questions are more acute near end of life because every

decision comes with trade-offs. Also, my work has a built-in knowledge gap: I'm an expert at surgery, but you're an expert on you. If I'm going to operate on you, I need to know about you to do the best surgery for you. That's palliative care, and we should be integrating it into how we deliver all care.

#### What is the most disruptive part of your work?

Probably teaching residents, fellows, and my colleagues about end-of-life and serious illness conversations. A lot of my work looks at outcomes to inform prognosis and priorities. If you think you're going to live 10 more years, your priorities might be different than if there's a 50-50 chance you may not leave the hospital. This helps me remember that surgery is not the answer all the time, even when it might be lifesaving. For surgeons, this is especially disruptive because it's not how our healthcare system is set up. But I've found if you always put patients at the center of everything, you will always do the right thing.

# What keeps you up at night?

Worrying that my decisions didn't center on the patient. When I see patients and families struggling to make decisions. Maybe the family is pushing for something, but nobody knows what the patient wants. That uncertainty keeps me up at night and drives a lot of my research.

# Who are some of your cultural or medical heroes?

My cultural hero right now is Megan Rapinoe! My medical hero is my colleague [Dr.] Tom Clancy. He's a hepatobiliary surgeon here who treats pancreatic cancer. When I was a senior resident and he was a young faculty member, we did an 11-hour case together. The tumor was on a major blood vessel, and we spent five or six hours chipping away at it. A lot of people would've given up, and he didn't. I learned so much from that one case about perseverance, integrity, technical skill, and the relationship a physician can have with their patient. Everybody in the world needs to have somebody like that in their corner.

If you always put patients at the center of everything, you will always do the right thing."





TECH

# **GAME CHANGER**

Brigham psychiatrists help develop a mobile medical game for opioid addiction

Intrigued by the potential of using medical gaming as a therapy tool, two psychiatry leaders at Brigham and Women's Hospital are helping develop a mobile medical game specifically geared for patients dealing with opioid addiction.

Working with healthcare gaming startup Tilak Healthcare, David Silbersweig, MD, and Joji Suzuki, MD, are providing their expertise in neuropsychiatry and opioid addiction to inform how the game can be responsive to patients' states of mind, particularly when they are at risk of relapse and experiencing cravings. The goal is to reduce the need for costly and time-consuming treatment and expand non-pharmacologic options.

Once developed, the game will undergo rigorous testing and clinical trials. With FDA approval, the game would be prescribed by physicians and played by patients, with information from the gameplay transmitting confidentially in real time to the physician.

"As always, our focus is on the care and well-being of patients who are struggling with addiction," says Silbersweig. "We need to continue to seek new and innovative ways to support them."

Photo by Max Pixel

# Tiny Brains, Big Idea

Scientists create mini-brains to model mental illnesses

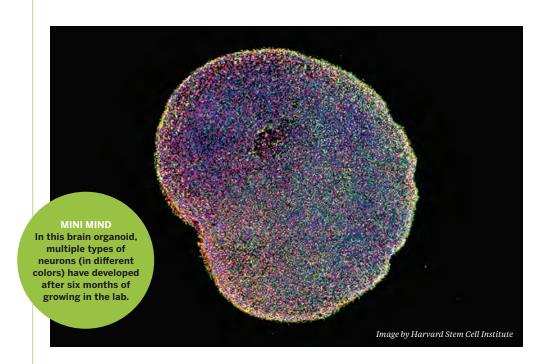
## Using human stem cells, Brigham

researchers have created miniature, threedimensional models of the brain to study genetic mutations linked to major mental illnesses.

Tiny but visible to the naked eye, the miniature brain organoids are created using human stem cells. Scientists then use gene-editing tools in the lab to insert specific mutations into the models to replicate disorders like schizophrenia, bipolar disorder, and depression, which have strong genetic risk factors.

Because the mini-brains are highly controlled, "we know that any differences we are seeing are because of the mutation that we introduced," says lead investigator Tracy Young-Pearse, PhD.

Using the mini-brains, Young-Pearse and her colleagues successfully disrupted DISC1, a gene associated with mental illness. The team expects this work will launch much-needed, sophisticated studies of how diseases develop in the brain.



## **DID YOU KNOW?**

# **GROW A BRAIN**

It takes 10 days for neurons to form in a mini-brain culture. After about a month, the neurons begin to spontaneously arrange themselves into different regions that mimic how human brains develop.





# Tales from the Crypt

Mummies scanned at the Brigham reveal clues about heart disease

### As part of an international research

collaboration, Brigham faculty and staff performed CT scans on five mummies from 16th century Greenland in the Shapiro Cardiovascular Center early last year. The team was looking for plaque in the mummies' arteries to see if atherosclerosis—a leading cause of death in the U.S. today—was also prevalent centuries ago.

The high-resolution scans of the mummies revealed telltale signs of the disease: hardened calcium deposits in various blood vessels in the chest.

"It's fascinating to look at humans who lived hundreds of years ago and see if learning about the past could teach us more about the present and future," says Ron Blankstein, MD, associate director of the Brigham's Cardiovascular Imaging Program, director of Cardiac Computed Tomography, and a preventive cardiology specialist.

Blankstein was among the experts who

performed the CT scans in the Shapiro Cardiovascular Center. He says once the mummies were inside Shapiro, scanning them wasn't too different from work the cardiovascular imaging team does typically. The mummies were easier to scan than a living patient; normally, the CT scanner must account for the movement of a beating heart.

"It was certainly an exciting and interesting experience," he adds, "and I hope we can use it to promote awareness of this mostly preventable disease."



mummy

#### **WEB EXTRA**

Get a closer look as the imaging team studies the mummies for historic health insights. brighamhealthmag.org/



# "IT'S FASCINATING TO LOOK AT HUMANS WHO LIVED HUNDREDS OF YEARS AGO AND SEE IF LEARNING ABOUT THE PAST COULD TEACH US MORE ABOUT THE PRESENT AND FUTURE."

- Ron Blankstein, MD

# **MUST READ**

# **YOU CAN STOP HUMMING NOW**

A Doctor's Stories of Life. Death, and In Between

by Daniela Lamas, MD



Pulmonary and critical care physician Daniela Lamas, MD, reflects on unforgettable encounters with patients and their loved ones as, together, they navigate some of the toughest health challenges imaginable.

# Bridging the Divides



"It is important to remember we all have an opportunity to be healers in our own realm, in our own right, right now."

# In challenging times, I think of healing as a path to unity.

Even in this climate of division, improving human health and well-being—in body and mind—is a goal we can all agree on. Our dreams for a healthier world can be the starting ground to move forward.

We will continue to be tested by events in the world around us. When chaos feels overwhelming, we must redouble our efforts to do good, inspire hope, and offer as much help as we can when others need it most. It is important to remember we all have an opportunity to be healers in our own realm, in our own right, right now.

Florence Nightingale, the founder of modern nursing, once said, "Live your life while you have it. Life is a splendid gift. There is nothing small in it...but to live your life, you must discipline it." This is what our moral compass is for-to guide us ethically in our decisions and in how we conduct ourselves every day.

I have the privilege of leading an organization guided by its moral compass. In the Brigham Health community, we live our values each day. We strive to be a safe place for all who come through our doors. We welcome people of all walks of life, in every moment of life. We hold their hands through it all—and in that small act, we build a bridge to help bear all of the pains and joys of being human.

Elizabeth G. Nabel, MD

President Brigham Health





# **ODYSSEYS IN MENTAL HEALTH**

ncient history and literature often illuminate modern times. In Homer's epic poem, The Odyssey, the warrior-king Odysseus leaves his wife and infant son to fight in the 10-year Trojan War. His journey home lasts another decade and tests every fiber of his being.

The resilience, luck, and help required for Odysseus' return may resonate for anyone dealing with mental illness. In this country alone, millions of people endure decades-long odysseys through mazes of mental health obstacles, including an insurance system that can thwart seekers and providers of mental health care alike.

To better understand and document some of their heroic ordeals, we spoke with more than 40 patients, providers, and researchers in the Brigham Health community. They shared stories of trauma and healing, despair and resolve, disparity and innovation, stigma and triumph.

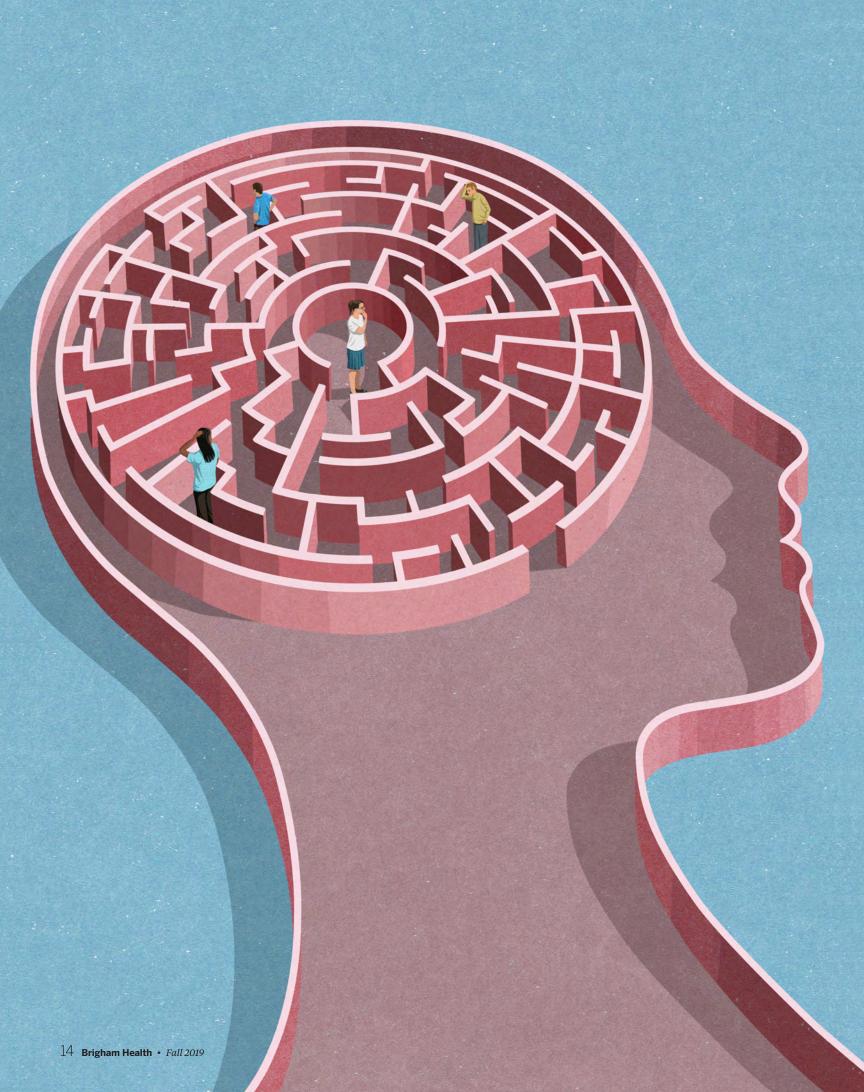
And they are not giving up.

David Silbersweig, MD, chair of the Brigham and Women's Hospital Department of Psychiatry, is one of many people determined to improve care and the ways people access it—and to destigmatize mental illnesses.

"Psychiatric disorders are real medical disorders, and they are ubiquitous," Silbersweig says. "Every year, one in four people is affected. When you add addictions, it goes way beyond that. And when you add comorbid medical illness, which most people have by the time they're older, the rate goes way up again. Every family is affected."

Honoring these stories has left us heartbroken and inspired, frustrated and determined. Perhaps the people you meet in the following pages will leave you feeling similarly. If you, like so many, are in the midst of this odyssey, we are with you. If this is new to you, we invite you to join us on the journey.

Written by LAUREN THOMPSON, JENNIFER REARDON, JOY HOWARD, and SARAH M. JACKSON • Illustrations by JOHN HOLCROFT







# **ASSESSING** THE CHALLENGE

# I. "WE'VE ALL HAD THE COMMON COLD FORM OF MENTAL ILLNESS"

What percentage of people would you guess have had a mental illness in their lifetimes? It depends on your definition of mental illness. What if the question were broader: What percentage of people would you guess have had any illness in their lifetimes?

"No one would be shocked if we learned that 99% of people had a physical illness during their life, whether it's a cold or cancer; likewise, we've all had the common cold form of mental illness at some point," says Ronald C. Kessler, PhD, a world-renowned expert in surveying global mental health and the McNeil Family Professor of Health Care Policy at Harvard Medical School.

Kessler continues, "For example, many people who have just broken up with a boyfriend or girlfriend will meet the criteria for major depression. Does it mean they need psychotherapy? No. Would psychotherapy help? Maybe. That's a common cold version of mental illness. The more important question is: Who has a persistent, severe mental illness that is derailing their life?"

From 1990 to 1992, Kessler conducted the first community-based epidemiological survey of mental disorders among adults in the United States. Over the next 25 years, he replicated and extended the study throughout the world.

Kessler's surveys have helped define the prevalence of severe mental disorders, which he describes as "looking like a bullseye."

At the center are the 2% to 4% of people clinically diagnosable with schizophrenia, bipolar disorder, severe depression, and other conditions. Moving further out, another 6% to 8% of people report other moderate to severe mental health issues that interfere with their lives. These rates of mental illness in the U.S. haven't changed for more than 60 years, despite increasing awareness and improved treatments.

"Surveys consistently show that 25% of adults in developed countries experience significant mental health problems each year," says Kessler. "This prevalence, coupled with the high impairment of these conditions, led the Global Burden of Disease Study to conclude that mental disorders account for more global impairment than any other class of noncommunicable diseases and more than all communicable diseases combined."

Repeated national surveys show nearly 60% of people with mental illness didn't receive mental health services in the previous year. The complexity and stigma attached to these conditions have led to mental health care in the U.S. being separate and unequal from medicine for physical diseases.

"Despite widespread suffering, we are doing the equivalent of 1950s cardiology in the mental health field," says Kessler. "We don't have the equivalent of a statin or cholesterol pill yet. So we're waiting for the equivalent of a heart attack-the suicides, overdoses, or violent outbursts—to occur before we do anything

"Surveys consistently show that 25% of adults in developed countries experience significant mental health problems each year."

- Ron Kessler, PhD



Mental disorders are chronic illnesses, but our healthcare system treats them as acute, episodic illnesses. That needs to change."

Silbersweig acknowledges the difficulties of changing the paradigms of understanding, diagnosing, and caring for people with mental illnesses.

"It's taken longer than cardiology or other fields because we're dealing with the most complex functions of the most complex organ that make us who we are as human beings," says Silbersweig. "That's also why these are among the most poignant of disorders: because they affect our individuality, relationships, identity, control of our own mind and behavior, and our subjective experience and emotions."

# II. "EVEN KIDS OFTEN CAN'T GET THE CARE THEY NEED"

Worldwide, half of all mental illness symptoms begin to appear by age 14 and three-quarters by age 24.1

"Anxiety disorders in children, such as phobias and separation anxiety, may not seem like a big deal when they're just starting, but they can be a warning sign of what's to come," says Kessler. "Kids who are seriously depressed or anxious and who have middle-class parents might get treatment, but not very many. The United States has fewer than 10,000 child psychiatrists for 50 million kids."

With suicide as the second leading cause of death in people between the ages of 10 and 24, untreated mental illness is a significant threat to children and adolescents, notes David Gitlin, MD, vice chair of clinical programs in the Department of Psychiatry.

"It's unbearable to think of children dying from cancer, and so as a society we have rallied around finding cures for childhood cancers, even though most people with cancer are older," Gitlin says. "Yet we can't seem to get

any traction about children's mental health care. That's how tough the stigma is. Even kids often can't get the care they need."

#### III. "I USED TO TOUGH IT OUT"

Liz\* first started feeling depressed as a teenager.

"I used to tough it out," she says. "It wasn't until my late 20s that I tried an antidepressant after going into a much deeper depression. I didn't know what bipolar was all about until I had a full mania a few years later."

A decade ago, Liz received the diagnosis of Bipolar Disorder I, which causes manic and depressive episodes.

"I've had to practice a lot of radical acceptance with this disease," says Liz. "I had a lot of shame when I was first diagnosed, but my therapist pointed out I wouldn't have shame if I were diabetic or had cancer. It's something I still struggle with."

Several of Liz's family members also have mental illness. Her sister has been treated for panic disorder and depression. Her father has experienced depression. And her paternal grandmother received a bipolar diagnosis late in life. As Liz responds to each flare-up of her disease, her family remains her biggest support, including her husband and her mother, a nurse.

"I couldn't have done it without them," Liz says. "I don't know if I would be here today without them, honestly. It's that hard."

Part of managing her disease, she says, is knowing when she needs help beyond regular visits with her psychiatrist and therapist close to home in the Boston suburbs. When her suicidal thoughts would not budge earlier this year, she came to the Emergency Department (ED) at Brigham and Women's Faulkner Hospital, part of Brigham Health.

"I had asked my outpatient psychiatrist for help," she says. "He increased my medications,

but I still thought about harming myself. It was a red flag."

After a week in the Faulkner's inpatient psychiatric unit, Liz transitioned to the Partial Hospitalization Program in the same building. She spent five hours a day in group therapy sessions and individual meetings for six days before completing her treatment.

"I got through the most uncomfortable feelings of anxiety and depression by using tools I learned in the program," she says. "Whether it's meditating or taking the time to sit and read a book or going for a walk with the dog. It's challenging, but I'm finding ways to live with it."

#### IV. STRESSED EMERGENCY DEPARTMENTS

On any given day across the country, thousands of people like Liz come to hospital EDs in search of relief from symptoms of mental illness, only to find themselves at the mercy of an overburdened mental health care system.

During the past six years, the number of patients seeking emergency mental health care at the Brigham (in EDs at the main campus and the Faulkner campus) increased from 3,500 to 4,600 per year. However, these numbers do not reflect the total number of people who come to the EDs in need of mental health care.

"A lot of people arrive with substance use disorder, alcoholism, drug overdose, and pain issues as their main concern, who also have overlying psychiatric complaints," says Mike VanRooyen, MD, chair of the Brigham's Department of Emergency Medicine. "The Brigham ED is adept at managing people's acute psychiatric complaints, particularly if they're agitated or potentially violent. When patients require extended care, we try to move them to our inpatient psychiatric facility at the Faulkner campus, which has 24 beds."



To better accommodate patients experiencing mental health crises, the Brigham ED is adding a Behavioral Health Care Unit as part of its expansion, expected to be completed by late 2021 (see "Building a 'More Humane' ED" below.) The unit will provide a safe, quiet place for vulnerable patients to receive the treatment they urgently need. The staff's goal is to resolve patients' symptoms and discharge them or to manage their conditions before transferring them to an inpatient psychiatric facility.

#### V. "IT'S TOO MUCH"

It's 8 a.m. on a Tuesday. Sejal Shah, MD, chief of the Brigham's Division of Medical Psychiatry, heads to the ED for her morning rounds. She leads the hospital's psychiatric consultation liaison service, the most consulted specialty throughout the Brigham Health system. In addition to the ED, units such as general medicine, oncology, cardiology, and OB/GYN call on consulting psychiatrists to assess patients and provide recommendations for care.

Today, Shah has two psychiatric patients to see in the ED. Often, there are as many as eight.

Ellen\* lies on a gurney in a treatment bay—one of two in the ED with a retractable metal door installed in the back. Any medical equipment Ellen could use to harm herself is secured behind the door. The overhead lights are dimmed. Her Bible and her unfinished breakfast sit on the tray table next to the bed.



A personal care assistant sits nearby, assigned to watch her.

She has been here 36 hours, waiting for a bed to open up at an inpatient psychiatric facility. Shah enters and asks Ellen a series of questions, including, "Are you having any thoughts of not wanting to live anymore or wanting to hurt yourself?"

Still recovering from recent drug use and a head injury, Ellen replies, "Not right now."

It's a relatively quiet morning in the Alpha pod of the ED, where the most acutely ill or injured patients receive care. At any moment, patients can be rushed in with anything from a heart attack to a severe injury to a gunshot wound. Asked what it's like for her in this environment, Ellen slumps and shakes her head, "It's too much."

This is Ellen's second time in the Brigham's ED in the last week. She hopes an inpatient facility can help her recover from addiction and depression so she can get back home to her 3-year-old son, who is being cared for by her mother.

Shah ends the conversation, saying they are looking for a bed for her. After 34 more hours in the tiny room, nearly three full days in total, Ellen transfers to an inpatient facility.

"The system is so broken," says Shah. "We're grossly under-bedded. Patients can board for days in the ED waiting for an inpatient bed. And Massachusetts is one of the better states. In other states, patients can wait for weeks or months. More often, nothing is available, so they get discharged without their needs being met." "All patient names have been changed to protect privacy.

# **BUILDING A 'MORE HUMANE' ED**

Almost daily, the Brigham Emergency Department (ED) provides care to patients in all 25 of its hallway locations because the 39 beds are full.

"About one in five ED patients currently receives their entire emergency care in a hallway location," says Chris Baugh, MD, MBA, vice chair of Clinical Affairs. "Most hallway spots don't have access to medical gases or suction, so we use portable monitoring equipment. In terms of privacy, comfort, and safety, it's challenging across the board."

The overflow is caused by two backups, Baugh explains. Between 15 and 25 patients wait in the ED most weekdays for inpatient hospital beds where they can continue to receive medical treatment. In addition, an average of six patients per day, but sometimes up to 12 or more, board in the ED before transferring to an inpatient psychiatric unit elsewhere in the state.

Additionally, the Brigham ED receives increasing numbers of older, sicker patients with complex needs, such as cancer patients with compromised

immune systems. Patients with less critical illnesses or injuries are choosing urgent care clinics more often, says Baugh, leaving EDs like the Brigham's with the most severe cases.

"Right now, behavioral health patients commingle with acute medical patients in the Alpha pod, where there can be a lot of commotion," says Baugh. "These challenges are not unique to the Brigham. All hospitals are dealing with this in different ways."

The Brigham's solution: nearly double the size of the ED. When the multiphased project is complete in late 2021, the expanded ED will include a dedicated behavioral health unit with eight beds.

"This will give us a better place to de-escalate patients in a more humane environment than the acute care spaces," says Mike VanRooyen, MD, chair of the Brigham's Department of Emergency Medicine. "It will also help us improve initial treatment, better address patients' ongoing psychiatric care needs, and help ease the burden for patients awaiting transfer to an inpatient facility."



Photos by Len Rubenstein Fall 2019 • brighamhealthmag.org 17







# A BROKEN SYSTEM— BY DESIGN

# **VI. PROVIDER SHORTAGES & GHOST NETWORKS**

People seeking outpatient psychiatric treatment can also endure long waits to get help. Gitlin points to severe shortages of mental health providers across the country. For example, nearly 80% of counties in Montana don't have a single practicing psychiatrist.

"While things are better in Massachusetts than in many other places, it can still be difficult to find a psychiatrist," Gitlin says. "There aren't nearly enough available for the number of people who need them."

In a 2015 study exploring the difficulties of finding a psychiatrist, researchers posing as patients called 360 in-network psychiatrists in Houston, Chicago, and Boston. Using phone numbers provided by a major insurer, researchers attempted to make appointments claiming to have Blue Cross Blue Shield, Medicare, or the willingness to pay out of pocket.

The results were damning. More than 15% of the phone numbers on the insurer's lists were wrong; they included numbers for restaurants, boutiques, and jewelry stores. Still, other numbers led to providers who were dead. When callers did reach practicing psychiatrists' offices, many doctors didn't accept insurance or weren't taking new patients.

After calling every number twice, researchers were unable to make appointments with 74% of providers on the insurer's lists. For a similar study among pediatric psychiatrists, researchers were unable to make appointments with 83% of the providers listed as in-network by Blue Cross Blue Shield. Inaccurate provider lists are so common, they have a name: ghost networks.

Between provider shortages, ghost networks, and insurance coverage limits, many people have no access to affordable and effective mental health treatment, even in a crisis. According to the National Alliance on Mental Illness, an estimated 43.6 million adults in the U.S. experienced a mental health condition in 2014, but only 41% of them received mental health services.

"We have an attrition model of mental health care that demands people put in all this work just to find a provider and make an appointment," says Gitlin. "On top of that, they often have issues with finances, transportation, work, housing, and relationships. All of these things interfere with their ability to get the treatment they need."

"We have an attrition model of mental health care that demands people put in all this work just to find a provider and make an appointment."

- David Gitlin, MD



"If you come into the ED with appendicitis... you can be admitted no matter what your insurance situation is... But mental health is completely different."

- Paul Chen, MD



# VII. DISCRIMINATION "INFECTED" BY FINANCIAL INCENTIVES

"If you come into the ED with appendicitis or some other medical issue needing hospitalization, you're admitted no matter what your insurance situation is, no questions asked," says Paul Chen, MD, director of clinical operations in the Brigham's ED. "But mental health is completely different. If we determine you are suicidal and need to be admitted to the hospital, we have to get authorization from the insurance company about whether you can be admitted. The insurance company can say no, triggering an appeals process between our psychiatry team and the insurer that can delay when patients get to a psychiatric facility or result in the patient going to a lower level of care."

The Mental Health Parity and Addiction Equity Act of 2008 is a federal law intended to eliminate discrimination by requiring insurers to cover illnesses of the brain, such as depression or addiction, with no more restrictions than illnesses of the rest of the body, such as cancer or diabetes.

Without biological markers of mental illness, insurers can—and frequently do—deem mental health services as medically unnecessary, enabling them to deny claims outright or reduce reimbursements. But the tide may be turning.

In March 2019, a U.S. federal judge ruled that United Behavioral Health (UBH), a subsidiary of the nation's largest health insurer, illegally denied coverage to tens of thousands of subscribers with mental health or substance use needs, many of them children. In his 106page decision, Chief U.S. Magistrate Judge Joseph Spero says the insurer's internal policies were "infected" by financial incentives created to restrict coverage for mental health and substance use treatment in order to cut costs.

While insurers use widely different criteria for covering mental health and addiction care, medical experts have sought to establish

# **HOSPITALIZATION TO IMPRISONMENT**

Between 1955 and 1994, state-run psychiatric hospitals across the country discharged most of their patients in a social experiment called deinstitutionalization. It coincided with three factors: greater availability of effective psychiatric medications, the creation of Medicaid and Medicare, and a societal movement toward treating people in their communities instead of institutions.

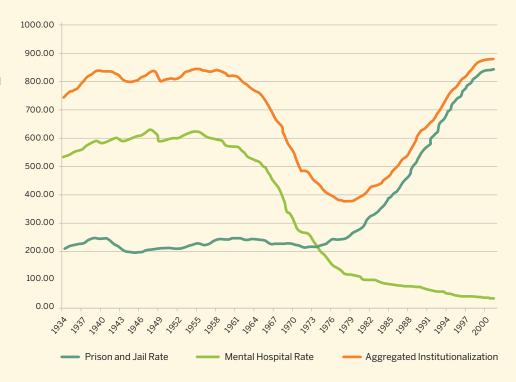
Despite positive intentions, deinstitutionalization helped fuel a new crisis: mass incarceration (see figure at right). Jhilam Biswas, MD, a forensic psychiatrist who directs the Brigham's Psychiatry, Law, and Society Program, says nearly 50% of the nation's prison population suffers from mental illnesses.2 In fact, jails in New York, Los Angeles, and Chicago are now the three largest psychiatric institutions in the country.

"Our goal is to address the serious need for high quality psychiatric treatment in the correctional setting and educate social systems outside of medicine and healthcare on psychiatric issues," she says. "We collaborate with correctional institutions, forensic hospitals, and courts to consult on patients' cases and train future psychiatry leaders to address the need."

Biswas says aspects of the justice system can exacerbate psychiatric illnesses. Studies show delays in court procedures cause acute episodes of serious mental illness to become chronic or transform single bouts of inpatient treatment into a lifetime of revolving-door psychiatric admissions.<sup>3</sup> Biswas says training psychiatrists to work with incarcerated patients is vital to protecting their rights to appropriate treatment.

"Many psychiatrists don't feel comfortable testifying to patients' illnesses at the time they were convicted of a crime," she says. "But to improve legal and social justice for these vulnerable people, it's crucial for doctors to learn to work in corrections and court environments"

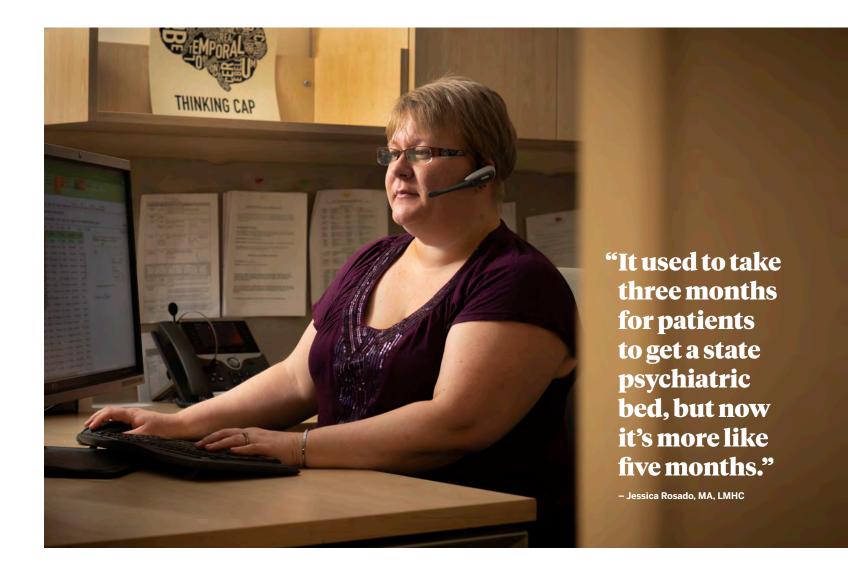
### Rates of institutionalization, including jails in the United States (per 100,000 adults), 1934-2001



Source: An Institutionalization Effect: The Impact of Mental Hospitalization and Imprisonment on Homicide in the United States, 1934–2001. Bernard E. Harcourt, The Journal of Legal Studies Vol. 40, No. 1 (January 2011), pp. 39-83 (45 pages), © 2011 by The University of Chicago

<sup>&</sup>lt;sup>2</sup> Biswas J. When Jails Become Hospitals: The Fallout from a Fragmented Mental Health System. Criminal Justice, Fall 2017.

<sup>3</sup> Biswas J, Drogin EY, Gutheil TG, Treatment Delayed is Treatment Denied. J Am Acad Psychiatry Law. 2018



standard guidelines. For example, many states now require providers and carriers to use addiction-treatment criteria developed by the American Society of Addiction Medicine (ASAM). Spero specifically cites these criteria in his ruling.

"UBH's refusal to adopt the ASAM criteria was not based on any clinical justification," Spero writes. "Indeed, all of its clinicians recommended that the ASAM criteria be adopted. The only reason UBH declined to adopt the ASAM criteria was that its finance department wouldn't sign off on the change."

Spero adds, "It is well-established that effective treatment of mental health and substance use disorders includes treatment aimed at preventing relapse or deterioration of the patient's condition and maintaining the patient's level of functioning. UBH Guidelines deviate from that standard."

UnitedHealthcare, the parent company of UBH, has not announced whether it will appeal Spero's decision. In the next phase of the case, the parties involved will present arguments about appropriate remedies.

# VIII. "IN AN IDEAL WORLD, I SHOULDN'T HAVE TO DO THIS JOB"

Sparring with health insurers over the dearth of inpatient psychiatric beds has become a complex job for Jessica Rosado, MA, LMHC, utilization manager for the Faulkner's Department of Psychiatry. Rosado works mostly on behalf of people already admitted to the hospital's inpatient psychiatric unit, which is designed for short-term, acute care.

"Our average length of stay is 10 days," says Rosado. "But if one of our patients needs continuing care and isn't safe to be discharged, we apply for them to go to a state psychiatric hospital."

The catch? In recent years, the wait time for a bed at state-run psychiatric facilities has nearly doubled.

"It used to take three months for patients to get a state psychiatric bed, but now it's more like five months," Rosado says. "The Massachusetts Department of Mental Health is aware they don't have enough beds for people, but we can't speed up the system. Since we never discharge a patient for lack

of insurance, some patients end up waiting here for a state bed longer than they'll stay there. As a result, those beds are not available for the next patients who need them."

Despite this well-known bed shortage, Rosado frequently contends with insurers that don't want to fully cover care for patients staying at Faulkner while they await admission to a state psychiatric hospital.

"In an ideal world, I shouldn't have to do this job," says Rosado. "Even when we can show a patient isn't ready to be discharged and has nowhere else to go, insurance companies often argue it's not necessary for them to receive acute care in our inpatient psych unit. Then they pay us 10% of what our care costs."

This cascade of backups—at state psychiatric hospitals, at hospitals with psychiatric inpatient units, and in the ED—increases costs and stresses an already overwhelmed system and the vulnerable people in it.







# NAVIGATING **OBSTACLES**

# IX. "THERE IS SO MUCH ROOM TO TRY NEW THINGS"

With systemic forces working against patients' access to care, mental health leaders at the Brigham are finding workarounds for their patients. In 2018, outpatient psychiatry leaders came up with a solution to skip long wait times for appointments or visits to the ED: an urgent care clinic devoted to mental health.

Led by psychiatrist David Kroll, MD, the LUCY Clinic (short for Longitudinal Urgent Care Psychiatry) at the Brigham is open to patients who have a time-sensitive need for care but are not in immediate physical danger. Kroll sees people whose prescriptions have run out but they can't get an appointment with their regular prescriber for weeks, or who have recently moved and don't have a local provider.

Kroll says the clinic has been a lifeline for many patients, especially those who have Medicaid. This particular population disproportionately miss scheduled psychiatry appointments due to circumstances beyond their control, such as transportation problems, inflexible work schedules, or family responsibilities. Since psychiatry practices often drop people who have no-showed, these patients frequently end up at square one.

"It continues to shock me how great the need is for this kind of program," Kroll says. "A lot of people aren't able to access care for reasons that should be surmountable, like setting appointments months out or enforcing no-show policies. Our clinic provides one relatively simple solution—getting rid of the scheduled appointment altogether."

He adds, "Behavioral healthcare is an area where there is so much room to try new things and fill big gaps. And we're encouraged to do that here at the Brigham and to take apart these barriers that have existed for a long time."

Claire Twark, MD, and other Brigham Health psychiatrists are helping patients navigate barriers to psychiatric care through a 21st century version of the house call: virtual visits, accessible through computers or mobile devices. Virtual visits are available to patients when it's clinically appropriate—such as for busy students, stay-at-home parents, or patients who live far away from the clinic.

"People don't no-show their virtual visits," Twark says. "I'm meeting with them while they're sitting in an empty classroom, in their car, in their office, or on their lunch break. It expands our ability to meet with people in a way that's convenient for their schedules."

"People don't no-show their virtual visits. It expands our ability to meet with people in a way that's convenient for their schedules."

- Claire Twark, MD





#### X. INTEGRATED CARE, BETTER CARE

In a small examination room, Jordan\* and his primary care physician, Gail Levine, MD, settle into their chairs.

"How has your energy level been lately?" Levine asks.

"I get pretty tired," Jordan responds. Jordan has anemia and extreme fatigue. side effects of the Crohn's disease that attacks his gastrointestinal tract. His visiting nurse has been trying to schedule him for an iron infusion, but he hasn't answered phone calls from the clinic. Levine asks him why not, and Jordan says he doesn't pick up calls from phone numbers he doesn't recognize. Then, he shifts in his chair. "Actually, is there a copay?"

Levine asks if that's what worries him. Jordan nods. He explains his financial challenges, from his low-paying grocery store job to his increasing health insurance premiums to his high heating bills during the winter. His filled prescriptions are still waiting to be picked up at the pharmacy because he can't afford the co-payments.

"I can imagine why you're worried," Levine says. "I still think it's important to arrange for the iron infusion, and then we will figure out the costs before you go, OK?"

Levine sits with Jordan while he calls the Infusion Center to schedule the treatment. Meanwhile, she emails the staff underscoring the urgent need for Jordan to be seen. This is how progress happens in the primary care clinic Levine runs at the Massachusetts

Mental Health Center, which is operated by the state's Department of Mental Health in partnership with the Brigham. The center provides comprehensive care for people in greater Boston who live with major depression, schizophrenia, bipolar disorder, and other serious mental illnesses. Levine's clinic is designed to support patients like Jordan who have complex medical needs, as well as people experiencing homelessness, substance use disorders, and trauma.

This integration of primary care and mental health care is especially critical, she says, because 60% of the center's patients die from reversible causes, including complications from diabetes, heart disease, smoking-related illnesses, and hepatitis.

"After years of working with my patients, the separation of their mental and physical health began to seem false," says Levine. "I can provide much better care for them when their primary care and mental health care are integrated."

# XI. LEVERAGING PRIMARY CARE

Nationwide, primary care doctors like Levine are increasingly the preferred avenue for people to receive mental health services. General practitioners now prescribe 80% of all antidepressants, the most common type of medication prescribed in primary care. Evidence strongly supports this movement to receiving mental health care within primary care (see "Make Mental Health Part of Your Annual Checkup" on page 34).

"The IMPACT model shows that savvy social workers and health coaches can provide meaningful, important work you don't need a face-toface evaluation with a psychiatrist for."

- Jane Erb. MD

In December 2002, the Journal of the American Medical Association published the results of a landmark research study called IMPACT: Improving Mood-Promoting Access to Collaborative Treatment. In the IMPACT model of care, a circle of providers—including social workers, care coordinators, specialist nurses, and consulting psychiatrists—collaborates with primary care physicians to offer patients personalized mental health services.

"More than 80 studies of the IMPACT model show patients had outcomes that were over twice as positive as patients who received mental health services in the usual way, such as a simple prescription and follow-up appointment or a therapy visit with an on-site mental health specialist," says Jane Erb, MD, the Brigham's lead psychiatrist for implementing

the IMPACT model in primary care. "Repeated follow-up studies using the IMPACT model, at the Brigham and elsewhere, also show improvement in these patients' general health, with lower overall healthcare costs."

In 2011, Advanced Primary Care Associates at South Huntington was the first Brigham practice to adopt the IMPACT care model, which all Brigham Health primary care locations use today.

One afternoon each week, Erb meets with South Huntington's collaborative care team to discuss their cases. During one of these meetings, care coordinator Vilma Alvarez pulls up the chart of a middle-aged patient, Claudia\*, and the team cheers. Claudia's high depression scores have dropped over several sessions since she started meeting with Alvarez.

"Great work!" Erb says. "This shows a huge improvement in patient-provider trust. This patient has never before remained engaged in any treatment recommendations."

The team members, who are all trained in health coaching, behavioral activation, and cognitive behavioral therapies, dive into Claudia's case.

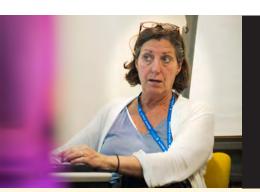
Hearing how well Alvarez connected with Claudia, the group brainstorms ideas, including free wellness classes and internet-based cognitive behavioral therapy. For two years, the Brigham's primary care practices have guided patients through this evidence-based online course, which teaches about the cycle of depression and anxiety, how to challenge negative thoughts, and how to apply these ideas to their lives. The course is free and

can be accessed from home without any waiting period, making it ideal for people who have busy schedules or skepticism about therapy.

"The IMPACT model shows that savvy social workers and health coaches can provide meaningful, important work you don't need a face-to-face evaluation with a psychiatrist for," says Erb. "These folks reach out proactively with phone calls, virtual visits, and prescribed checkin intervals to measure patients' depression and anxiety. They also identify activities the patient can begin to participate in that will hasten improvement and prevent relapse."

Erb adds, "This model enables us to magnify our impact by advising collaborative care teams who work with hundreds of patients in settings where they prefer to be seen."

 ${}^*\!All$  patient names have been changed to protect privacy.



Members of the collaborative care team, including Jane Erb, MD (left), review patient cases at the Advanced Primary Care Associates at South Huntington. (Photos by Stu Rosner)



# **SOUNDING THE ALARM ON BURNOUT**

Research in the past five years has exposed a troubling, global epidemic in healthcare: high rates of burnout, depression, anxiety, and suicide among physicians.

In 2018, researchers from the Brigham analyzed data from 182 studies involving nearly 110,000 physicians worldwide. They found that 67% of physicians had experienced overall burnout, with providers in some specialties reporting up to 87%. Most prone to burnout are clinicians who have more frequent patient contacts, including emergency medicine and primary care.

For physicians, burnout involves feeling emotionally exhausted, personally ineffective, and cynical or depersonalized toward patients. In addition to severely affecting physicians' work satisfaction and personal lives, burnout increases the risk of medical errors, threatening patients' care and safety.

Leaders at the Brigham are taking a significant stand against burnout, starting at home. Jessica Dudley, MD, chief medical officer of the Brigham and Women's Physician Organization (BWPO), says the hospital has launched several programs to promote a culture of community and self-care, relieve the administrative burden of today's healthcare systems, and increase faculty access to personal well-being and behavioral health resources.

"Burnout is not the fault of physicians—they are incredibly resilient," says Dudley. "It's driven by external factors, like being asked to do more in a broken and inefficient healthcare system. That's why the BWPO is making a huge effort to make sure every physician here has the support they need for well-being and professional fulfillment."

Increasing access to mental health services is a crucial aspect of the BWPO's efforts. In 2018, the hospital opened a mental health clinic to offer faculty and trainees rapid access to psychiatry services.

"Over the past year, our program has provided consultation to 160 faculty and trainees with over 500 follow-up visits," says Mary K. McCarthy, MD, who directs the clinic. "Physicians are resilient human beings who also sometimes get depressed, anxious, and overwhelmed, especially if other life stressors are added on to the responsibilities of their work."

Another program has designated at least one faculty member in every department to be a wellness champion, offering mentorship and support to colleagues.

In addition to the BWPO's initiatives, Eve Rittenberg, MD, Samara Grossman, LICSW, and Annie Lewis O'Connor, PhD, NP-BC, MPH, are part of a multidisciplinary group of clinicians who provide trauma-informed care training to

physicians, nurses, care managers, and community health workers across the Brigham and Partners HealthCare.
They are also working with students and faculty at Harvard Medical School to incorporate trauma-informed care into the medical curriculum.

"We all have our own histories, and we sit with patients who experience some terrible suffering," Rittenberg says. "It's important for us as providers and staff to take care of ourselves and do what we can to improve our own resilience and decrease vicarious trauma. It's a gradual process, and is becoming more a part of how we think about training and practicing medicine."

67%
OF PHYSICIANS HAVE EXPERIENCED BURNOUT

4ncbi.nlm.nih.gov/pubmed/30326495 Fall 2019 • brighamhealthmag.org 25







# WEATHERING MULTIPLE ILLNESSES

# XII. "THERE'S MORE TO SURVIVAL THAN PHYSICAL RECOVERY"

Improving access to mental health services requires meeting patients where they are, whether through a virtual visit, a primary care checkup, or even at their hospital bedside.

Many patients in the Intensive Care Unit (ICU) deal with twofold trauma: 1) the catastrophic injury or health crisis that brought them there and 2) the stresses of being hospitalized. They often drift in and out of consciousness, hooked up to a ventilator, while their bodies fight to stay alive.

These fragile patients often struggle with hallucinations or nightmares that seem as real as actual memories. Numerous studies show up to 80% of ICU survivors experience this kind of delirium, and an estimated 20% are later diagnosed with post-traumatic stress disorder (PTSD) related to their hospitalization.

Psychiatrist Nomi Levy-Carrick, MD, MPhil, meets with ICU patients to help them make sense of their traumatic experiences during and after their admission. Her work is part of a unique, proactive psychiatric consultation model that brings trauma-informed care to patients at some of their most medically vulnerable moments. During patients' time in the ICU and their subsequent stays in other units, Levy-Carrick follows them to help stabilize their mental health.

As a psychiatric consultant to the Brigham's Critical Illness Recovery Program, she also meets with patients after their discharge home. She says, "After the dust settles, we can fill some gaps in a patient's memory and tether some of their confusing or terrifying hallucinations to actual experience."

A frequent delirium-induced nightmare among ICU patients is imagining balloons and bobbing heads floating around their beds.

"To some people, it can be helpful to clarify that, 'What you saw were all the nurses, anesthesiologists, pulmonologists, and respiratory therapists standing around your bedside, working together to optimize your care," she says. "People can find some comfort and start to process that experience without the emotional distress that was attached to it before."

Brigham researchers found that, among patients with respiratory failure, proactive psychiatric consultation resulted in shorter hospital stays than with conventional care.

"There's more to survival than physical recovery," she adds. "We are identifying opportunities to change a patient's emotional trajectory so they walk away from a potentially traumatic experience with knowledge and growth instead of functionally impairing symptoms, including PTSD."

"We are identifying opportunities to change a patient's emotional trajectory so they walk away from a potentially traumatic experience with knowledge and growth."

- Nomi Levy-Carrick, MD, MPhil





# **KEY PRINCIPLES OF A TRAUMA-INFORMED** APPROACH

- Safety everyone's physical and psychological safety is a top priority
- **Trustworthiness and Transparency** 2 all share a commitment to transparently building and maintaining trust among everyone in the organization
- **Peer Support** engaging peers to promote recovery and healing
- Collaboration and Mutuality everyone has a role to play in creating a healing, therapeutic environment
- **Empowerment, Voice, and Choice** shared decision-making empowers everyone
- Cultural, Historical, and **Gender Issues** – respecting and responding to each individual's racial, ethnic, and cultural needs

Abridged from SAMHSA's Concept of Trauma and Guidance for a Trauma-Informed Approach. HHS Publication No. (SMA) 14-4884. Rockville, MD: Administration, 2014.

Another Brigham leader in traumainformed care is Annie Lewis O'Connor, PhD, NP-BC, MPH, founder and director of the C.A.R.E. (Coordinated Approach to Resilience and Empowerment) Clinic. Started in 2011, the clinic assists victims of interpersonal violence such as domestic and sexual violence and human trafficking.

Listening to and strategizing with patients about their priorities is an essential aspect of trauma-informed care, Lewis O'Connor says. For example, she explains, if a woman comes to the ED with injuries from domestic violence and she also has high blood sugar levels, her top priority may be dealing with domestic violence or depression and how that is affecting her health. Her diabetes may be a much lower priority, which can put her at odds with her care team.

In recent years, Lewis O'Connor has been sharing her knowledge of trauma-informed care across Partners HealthCare, which includes Brigham Health. An instructor at Harvard Medical School, she teaches medical students to look at the traditional providerpatient relationship from a new perspective, understanding that most people have experienced some form of trauma in their lives.

"We need to change the hierarchy of 'I'm the physician' or 'I'm the nurse practitioner, so I know better than you," Lewis O'Connor says. "We need to flip it to say, 'While I have more knowledge than you about certain things, you are an expert in your life. Help us understand what you need and want."

# XIII. "IT'S SUCH A RELIEF TO BE ABLE TO GIVE **OUR PATIENTS OPTIONS RIGHT AWAY"**

Like other serious illnesses, addiction weaves a tangled web of physical and emotional suffering. Multiple national surveys have found that 50% of people with substance use disorders contend with other mental health issues of the same sort as the general population. In regions hit hardest by the opioid crisis, that figure may be conservative.

In 2018, nearly 2,000 people in Massachusetts died from an opioid overdose, according to the National Institute on Drug Abuse. This rate is two times higher than the rest of the nation. And while the overdose death rate has been declining slowly in recent years, the number of overdose-related 911 calls continues to rise. Staff throughout the Brigham Health system have seen skyrocketing numbers of people with overdoses and injectionrelated infections or who are seeking addiction treatment.

Yet, as in virtually every other corner of the mental health care system, people with substance use disorders face long waits for inpatient and outpatient programs due to the scarcity of these services.

'When patients with addiction are sent right back to the community, they feel vulnerable, tend to use again, and this creates a vicious cycle," says Tim Erickson, MD, an emergency physician and chief of the Division of Medical Toxicology.

At the beginning of the opioid crisis, the Division of Addiction Psychiatry launched a comprehensive outpatient substance treatment program on the Faulkner campus. The team worked to set patients up for successful recovery after discharge by initiating addiction treatment during their hospitalization.

"However, even when we discharged people with referrals to outpatient addiction treatment programs, 50% of them never made it to their first appointment," says Joji Suzuki, MD, director of addiction psychiatry. "Even a two-week delay for follow-up appointments can be challenging for these patients. As a system, we needed to address this crisis in new ways and better coordinate different parts of the hospital already offering addiction treatment."

Suzuki says this dilemma inspired the Brigham to create a program that initiates and continues addiction treatment immediately after leaving the hospital or emergency department. With philanthropic support, the Brigham Health Bridge to Recovery Clinic opened in the spring of 2018. Now, when these vulnerable patients are being discharged or leaving a primary care appointment at the Brigham, they can walk down the hall to the clinic.

"It's such a relief to be able to give our patients options right away," Erickson says. "Often, patients with addictions get stereotyped that they don't want help. This could not be further from the truth. They do not enjoy being addicted and want a way out. They just need options and the means to do it."

The Bridge Clinic was designed to provide treatment for weeks or months while patients are waiting for openings in longer-term addiction programs.

"Addiction is a chronic, treatable medical condition," says Christin Price, MD, the clinic's program administrative director. "We need to treat the changes in the brain caused by substances. The overall rates of recovery for substance use—when providing effective medications, support, and therapy—can often be better than outcomes for obesity and diabetes. The main issue is patients don't often have access to timely treatment."

Price adds, "When we address patients' immediate needs first, such as prescribing medication for the addiction or helping them apply for housing and other social services, they can focus on unpacking the trauma in their lives."

**NEARLY 70% OF BRIDGE CLINIC PATIENTS HAVE** STAYED IN TREATMENT FOR 6 MONTHS OR MORE.

#### **XIV. REMARKABLE TRANSFORMATIONS**

When Jeff\* first came to the Bridge Clinic eight months ago, he lived under a bridge, injected heroin and fentanyl, and suffered from severe anxiety and PTSD.

"He was so anxious he would only see one provider here; he wouldn't talk to anybody else," Price says.

Since getting treatment, Jeff reconnected with his mother. Now, he is living with her, seeing a therapist, and no longer uses heroin and fentanyl. He also volunteers at a food pantry.

"With his anxiety, he wouldn't have been able to sit in a room with other people, and now he's actively volunteering," Price says. "In a matter of months, the transformation has been remarkable. Yes, the addiction is what got him here, but addressing the PTSD and anxiety is what helped him recover."

Jeff is one of more than 400 patients cared for so far at the Bridge Clinic by a small team including infectious disease experts, a primary care physician, addiction psychiatrists, a resource specialist, and recovery coaches who offer peer support. The clinic also works closely with a social worker specializing in trauma who offers ongoing therapy.

Appointments are not required. If a patient shows up and the provider is busy, another member of the team usually will see them. If a patient relapses with alcohol or drugs, the clinic continues to treat and support the patient on their path of recovery.

"Many other programs are unable to continue seeing patients when they relapse or continue to use intermittently," Price explains. "We approach addiction like any other chronic condition: It is a lifelong process that involves a variety of treatments and lifestyle changes."

While it opened with typical clinic hours from Monday through Friday, the clinic is expanding its hours to weeknights and weekends. Price and her team are also looking at new ways to guide patients through recovery, including art and music therapy.

Nearly 70% of patients who received care at the clinic have stayed in treatment for six months or more, whether at the Brigham or in their community. Among these patients, the hospital has seen close to a 50% decrease in the number of ED visits and hospital admissions.

"This success rate speaks to why a model like this works," Price says. "When we understand recovery as a continual process that doesn't happen overnight, and we compassionately treat patients' underlying trauma and pain, the risk of relapse is lowered."

\*All patient names have been changed to protect privacy.



# **CONFRONTING THE MENTAL HEALTH TOLL OF CANCER**

Where serious illnesses go, mental health issues often follow. Yet because medical care and mental health care are traditionally delivered separately, many people living with chronic or life-threatening diseases do not get adequate treatment for related emotional struggles.

Fremonta Meyer, MD (pictured above), is a psychiatrist at the Brigham who specializes in helping cancer patients navigate anxiety, depression, pain, and other issues. In addition to traditional therapy, Meyer prescribes psychiatric medications that won't interfere with chemotherapy, immunotherapy, or other treatments.

"No two patients are alike, but many start by focusing their energy on dealing with the physical side of their cancer," says Meyer. "The emotional piece usually hits later."

Meyer and Elizabeth Farrell, a social worker at the Dana-Farber Cancer Institute, lead two support groups for women with metastatic breast cancer. For 90 minutes each month. the women in each group commiserate about burdens of cancer, including issues with medications and dealing with weight changes, nausea, and fatigue that won't quit. They ruminate on how unnatural it feels to learn how many months or years they have left to live, followed by the thrill or dread that comes with surviving that time estimate.

"These issues aren't limited to cancer," Meyer says. "Support groups like these have the potential to be transformative for Alzheimer's, autoimmune diseases, MS, HIV, substance use disorders, all the other tough diseases people live with."

Every woman in the group has become an expert, and they generously and confidently share their hard-won wisdom. For long stretches of time, the conversation flows naturally among them with little prompting from Meyer and Farrell.

"Group therapy probably doesn't improve survival rates," says Meyer. "But evidence shows it significantly boosts patients' quality of life, which for many patients is as or more important than length of life."







# ARRIVING AT HOPE

#### XV. "EVERY DAY GETS BETTER AND BETTER"

Trauma takes many forms. First, Kyle\* lost his job after missing too many workdays for mental health treatments. Then, he learned he has a mass in his chest. Crushed by anxiety and depression, Kyle turned to alcohol, breaking six years of sobriety. When his alcohol use spiraled out of control, he was so worried about his safety, he took a cab to the Faulkner's ED.

"The last two years have been a nightmare," says Kyle.

After seven days of treatment in the hospital's inpatient psychiatric unit, Kyle's outlook is much different.

"When I first came here, I was a nervous wreck," Kyle says. "But the people are great, from the mental health workers to nurses to kitchen staff to peer counselors. I'm getting a little anxious I'm leaving, but it's apples and oranges compared to where I was days ago."

Kyle braved many twists and turns leading to the Faulkner inpatient unit.

"I'm an average guy—I went to college, worked in IT [information technology], coached Little League for my kids," he says. "All of a sudden there were days I couldn't get out of bed. People would say, 'What do you have to be depressed about?' They don't understand."

After self-medicating with alcohol, he sought help 10 years ago through Faulkner's Addiction Recovery Program.

"Back then, the staff talked about depression and anxiety, but I didn't believe it," Kyle says. "I thought I could stop drinking and everything would be normal. After finishing the program, I started my master's degree and was doing stuff I never dreamed of before. I see now that even though the alcohol went away, the depression and the anxiety never did."

Getting admitted to the inpatient psychiatric unit gave Kyle a chance to participate in intensive therapy, manage his medications, and learn new coping skills. Upon discharge, he will transition to the Partial Hospitalization

"Just seven days ago, I got into a cab to go home and said, 'You know what, take me to Faulkner Hospital instead," he recalls. "If I went home, Lord knows what would've happened. Instead, I came here and I feel like a million bucks right now. Every day gets better and better."

# **XVI. NEW OPPORTUNITIES AND EMOTIONS**

More than 500 patients like Kyle come to Faulkner's inpatient psychiatry unit each year in crisis. Upon arrival, the care team guides them through medical conditions, including depression, anxiety, mania, psychosis, and substance use.

"Our approach to care is recovery-oriented," says Chris AhnAllen, MD, PhD, director of

"Our approach to care is recoveryoriented. Part of this means getting to know patients and what their strengths are, not just seeing them as their individual diagnosis."

- Chris AhnAllen, MD, PhD



# "If you're out there and alone, seek help. There's nothing better than support. You reach out to one more person, you cut your problem in half."

- Kyle\*, a patient of Brigham and Women's Faulkner Hospital

inpatient psychology. "Part of this means getting to know patients and what their strengths are, not just seeing them as their diagnosis. We involve patients in making decisions about their care."

Since joining Faulkner in 2017, AhnAllen has introduced more evidence-based interventions, such as cognitive behavioral therapy. The unit also offers psychosocial group programming, including sessions on life skills, stress management, yoga, music, and peer support.

Judy Ashton, a former patient turned volunteer, leads a peer support group on the unit twice a week and meets with patients individually. Before Sunday morning meetings, Ashton brings newspapers and snacks and socializes with patients. Over the past decade, she has volunteered more than 4,000 hours of her time.

Two additional certified peer specialists work part-time on the unit, connecting with patients one-on-one and facilitating peer

group sessions. In addition to their work on the inpatient unit, these peer workers recently started a free Saturday group called Allies, for current and former Faulkner psychiatry patients looking for connection and encouragement.

"If you have psychiatric issues, you need somebody in your corner," Ashton says. "Peer workers are uniquely qualified to do that because we can share from our experience. Learning skills that have worked for other peers gives people some agency over their illness. If they try some new tactics and develop new coping mechanisms, they can deal with hallucinations, paranoia, depression, or whatever symptoms they have."

Ashton describes how peers' perspectives can help navigate their illnesses.

"We help people recognize the symptoms that can lead them to be acutely ill, so they can learn skills or take actions to prevent catastrophe," says Ashton. "Some people might notice they are becoming increasingly isolated, having trouble initiating social activity, feeling unusually irritable or anxious, or are eating more or less than usual. We ask them to pay attention to these symptoms and be honest with themselves that they may be nearing a crisis. Then, we brainstorm ways to counteract these symptoms and avert the crisis."

John Fromson, MD, chief of psychiatry at Faulkner, says, "Patients rave about our peer support program. In addition to volunteering her time and knowledge, Judy's philanthropy assists our psychosocial group programming, including peer support."

Ashton and her family also funded construction of the Ashton Family Terrace, the inpatient unit's secure outdoor space that provides patients with access to fresh air and opportunities to garden.

### XVII. "WE'RE ALL ENTITLED TO HOPE"

Ashton observes it is common for people to feel it's a life sentence if they or their loved one is diagnosed with a major mental illness.

"People can recover," Ashton says. "I've seen it. I've done it. With the treatments we have available and not internalizing the stigma, people can do very well. They may need help at times, including different treatments or additional medicines. We give that to people with other illnesses, and we ought to provide that to the same extent to folks with behavioral health illness."

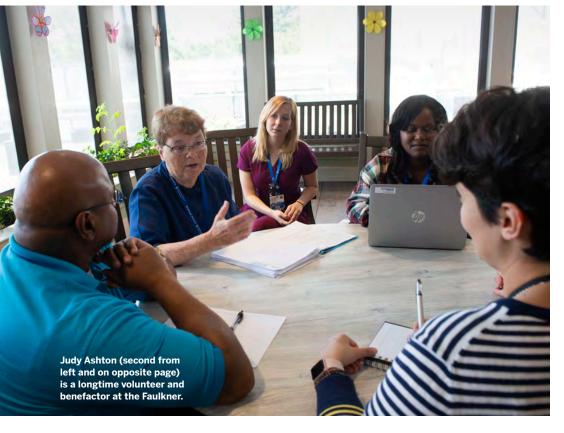
She adds, "Sometimes in psychiatry and other medical fields, the focus is on what's wrong. In my peer counseling, I make sure I focus on what's right. What are the strengths that have gotten you this far? You're not just a bundle of symptoms. You're a human being who has struggled and who has a tremendous amount of courage. People need an enormous amount of courage to deal with these illnesses."

Whether someone is dealing with a serious mental illness or stressful life event such as divorce, loss of a job, or any issue, Fromson encourages people to recognize when they may benefit from mental health care.

"People can tolerate a lot of psychic pain and debilitation before, or if ever, getting help," he says.

Fromson's metaphor for well-being is a three-legged stool whose legs are family, work, and community.

"If one of those legs gets pulled out because of a strain in your relationships, impaired ability to function at work, or something happens with your community or religious affiliation, it may be time to get help," he says.



32 Brigham Health • Fall 2019 Photos by Len Rubenstein



"We want to show people how to develop ways to deal with problems that will be helpful, not hurt them more."

Thinking back on his own experience, Kyle says getting the support he needs has been life-changing.

"I want to tell others if you're out there and alone, seek help," Kyle says. "There's nothing better than support. You reach out to one more person, you cut your problem in half. And you'd be amazed that people come out of the woodwork to help. If I didn't ask for that help, things could be tragically different."

Ashton echoes this feeling.

"I will never forget the compassion shown to me by the exceptional staff in the Faulkner's inpatient and partial hospitalization programs," she says. "They helped me feel less isolated and taught me new skills to cope with my symptoms."

Volunteering as a peer counselor has also helped Ashton's recovery.

"My work as a peer counselor is the gift that keeps on giving to me," she says. "It reinforces what I learn in treatment: I am going to be OK. More importantly, my presence gives patients hope for themselves."

At a recent group meeting, Ashton listened as others spoke of their efforts to counter feelings that they are different because they have a psychiatric illness.

"I hope we can get rid of the stigma around mental illness," Ashton says. "We're all entitled to treatment for whatever illnesses we have. We're entitled to support, and we're entitled to feel a sense of hope. We're all entitled to hope."

\*All patient names have been changed to protect privacy.

# SEARCHING FOR CAUSES AND NEW TREATMENTS

For researchers who study mental health disorders, the heat is on to discover their root biological causes and develop new treatment strategies and targets.

"These illnesses are not like tumors and strokes that you can see on a scan-yet," says David Silbersweig, MD, chair of the Department of Psychiatry at the Brigham. "Recent developments in brain imaging and other technologies are helping us gain traction. Many of our faculty and trainees are involved in research to identify the pathophysiology of mental illness."

Brigham researchers are working to decipher the root causes of mental illness using advanced imaging techniques, genomic research, and analysis of big data to yield a more precise understanding of the biology and physiology of these disorders.

One of dozens of psychiatric investigators at the Brigham, Kate Burdick, PhD, directs the Mood and Psychosis Research Program. She and her team study cognitive changes in people who have bipolar disorder, major depressive disorder, or schizophrenia (see "Cognition vs. Diagnosis" below).

"We're finding that cognitive decline is closely tied to the number of manic-depressive episodes people experience over their lifetimes," Burdick says. "Two

people can be diagnosed with bipolar disorder and have it for 20 years, but the one who's had two major episodes will have better cognitive function than the other who's had 20 episodes in that time."

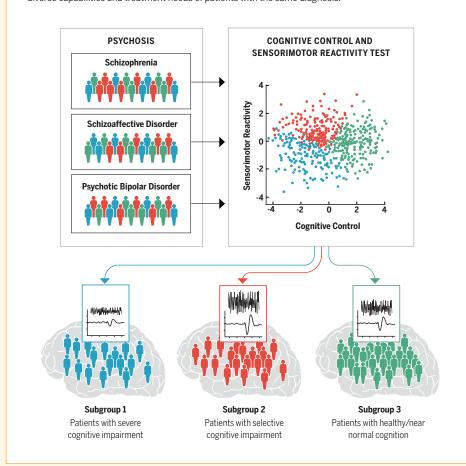
After isolating data from patients with the most severe forms of the illness, Burdick's lab found more genetic risk factors and history of childhood trauma in that group than in people who have had fewer manic-depressive episodes.

"We need to think about cognition as a treatment target, instead of focusing solely on primary mood symptoms," she says. "Cognitive decline is the number one predictor of disability in these diseases. We're starting to ask why manic-depressive episodes trigger an inflammatory response in the brain and cause these hits to cognition. Maybe if we target those triggers, we can stop the worst-case trajectories of these disorders"

Some of the Brigham's newest evidence-based psychiatric treatments include brain stimulation and intravenous ketamine infusions. Though not yet covered by insurance, these approaches are showing promising results for some patients who don't experience enough relief from traditional psychiatric medications or therapies.

# **Cognition vs. Diagnosis: A Different Approach to Treating Mental Illnesses**

In this figure, patients initially grouped together by diagnosis undergo cognitive testing and are reorganized into subgroups (represented by color) based on cognitive function—illustrating the diverse capabilities and treatment needs of patients with the same diagnosis.



Source: Clementz BA, Sweeney JA, Hamm JP, Ivleva EI, Ethridge LE, Pearlson GD, Keshavan MS, Tamminga CA. Dec. 8, 2015, American Journal of Psychiatry.

COLUMN

# **Make Mental Health Part of Your Annual** Checkup



by Katherine Rose, MD, Brigham and Women's Advanced Primary Care Associates

#### When primary care doctors ask how

patients are feeling, we aren't just wondering about your bodily aches and pains. We want to know about your mental health, too.

General practitioners increasingly offer advice and treatment for common mental health disorders like depression and anxiety. In fact, nearly 80% of antidepressants are now prescribed in primary care clinics.

Here are some tips for talking with your primary care doctor about your mental health:

**BF HONEST** 

**FOCUS** 

It can be hard to know how or when to bring up thoughts, feelings, or behaviors that worry you. By noting on the patient questionnaire what you've been experiencing, whether it's loss of interest in normal activities, inability to focus or sleep, or increased alcohol or substance use, your responses help us to open the conversation.

It's common to leave mental

health concerns for the end of an annual checkup. But that leaves little time for meaningful discussion of symptoms and options for treatment. If you know in advance that you want to discuss a mental health concern, tell the appointment scheduler it's the main reason for your visit. **GO MOBILE** 

We know you're busy. Many practices now offer online or app-based mental health services you can access anywhere you go. Programs like internet-based cognitive behavioral therapy are self-guided. Other types of video-chat therapy are led by specialized nurses, licensed social workers, and other skilled mental health professionals. These programs can keep your doctor updated on your progress.

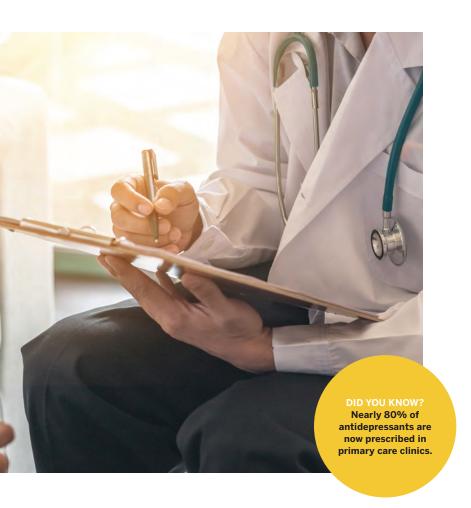
**BE PATIENT** Mental health disorders can be complex. Many people need a combination of medications, talk therapy, and/or lifestyle changes before they start to feel better. Talking with your primary care doctor is only the first step. Be patient with the process and, most important, be patient with yourself!

#### **Emergency resources:**

If you are thinking of harming yourself, don't wait for an appointment. Call or text the National Suicide Prevention Lifeline at 1-800-273-8255 for free, confidential, 24/7 support. If you are a Massachusetts resident, you can call for local emergency mental health and substance use services toll-free by dialing 1-877-382-1609 and entering your ZIP code.







**DID YOU KNOW?** 

# Two-thirds of parents with children younger than 14 reported that they had read texts while driving in the previous month, according to new research from Brigham and Women's Hospital.

More than half also reported that they had written texts while driving, said the researchers, who published their results in JAMA Pediatrics.

"I think parents likely know the risks of distracted driving, as more than half of parents surveyed said they believe they are safer drivers when their kids are in the car and two-thirds said they use their phone less when they have their kids in the car," says Regan Bergmark, MD, a sinus and endoscopic skull base surgeon at the Brigham, research faculty at the Center for Surgery and Public Health, and lead author on the study. "We believe there is an opportunity to change behavior by engaging with parents more directly through their children's pediatrician about distracted driving and having apps or programs that people can commit to using."

RESEARCH

# YOUR DIET COULD HELP FIGHT DEPRESSION

A growing number of studies over the past decade are showing a healthy diet can help to prevent depression. And for those with depression, diet has the potential to improve symptoms.

Kathy McManus, MS, RD, LDN, director of the Department of Nutrition at the Brigham, says she and her team of five nutritionists often recommend the Mediterranean diet as a healthy eating pattern for many reasons.

"This diet involves eating more fruits, vegetables, extra-virgin olive oil, nuts, whole grains, and legumes, and less unhealthy snacks and red meat," she says. "It has many benefits, including reduced risk for cardiovascular disease, diabetes, and potentially depression."

McManus says the advice she gives patients is influenced by studies published in a variety of journals, including those focused on gerontology, nutrition, and psychiatry.

"One study showed those who closely follow the Mediterranean diet are about 33% less likely to develop depression than those not following it," she says. "Another study looked at people with depression who adopted the Mediterranean diet. After three months, they noted a significant improvement in how they felt versus those that didn't follow this eating plan."

As people change their diets. McManus suggests measuring progress. "Take inventory of what you're currently eating and in three months look again," she says. "What's the quality of foods you're consuming? Do you feel like you have more energy?"

For those interested in trying the Mediterranean diet, there are simple steps to begin. For example, she says, "Use olive oil in place of butter. Begin or end your meal with a salad. Try fruit for dessert."

While evidence between nutrition and depression is mounting, McManus says there is more to learn.

"People are becoming more aware of diet-mind connection," she says. "We're still studying and trying to understand it."



# **Making Brain** Connections

How can scientists see psychiatric disorders in the brain if they are invisible? This 3D model of whitematter fiber bundles illustrates how advances in imaging and machine learning are helping researchers identify deep brain connections that may be crucial to understanding disorders like major depression and schizophrenia.

To create 3D models like this, researchers in the Psychiatry Neuroimaging Laboratory and the Laboratory of Mathematics in Imaging developed an advanced algorithm capable of extracting dMRI (diffusion magnetic resonance imaging) data from thousands of patients' medical images. The algorithm uses multidimensional imaging data to group together and assign colors to the fiber bundles, resulting in a visualization of brain connections that is remarkably consistent with prior anatomical knowledge.

The mapping of these connections can then be used to indicate to researchers whether pathology is present or absent. By measuring differences in the brain's structure, the mapping tool could reveal important signs of neuropsychiatric disorders, which are not yet detectable through traditional imaging techniques.

(Image courtesy of the Psychiatry Neuroimaging Laboratory and the Laboratory of Mathematics in Imaging, Brigham and Women's Hospital and Harvard Medical School)





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"Psychiatric disorders are real medical disorders, and they are ubiquitous... Every family is affected."

 David Silbersweig, MD, chair, Department of Psychiatry Brigham and Women's Hospital

