





FY24

Advancing Neuroscience. Impacting Lives.





Our Board of Trustees comprises distinguished community and business leaders who provide strategic guidance and oversight to Barrow Neurological Foundation. Their expertise and dedication ensure that we maximize the impact of every donation in supporting Barrow Neurological Institute's mission of saving lives through groundbreaking research, patient care, and medical education.

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Advancing Neuroscience. Impacting Lives.

THANK YOU FOR YOUR GENEROUS SUPPORT of Barrow Neurological Institute and its mission of saving lives. The impact of your philanthropy is far-reaching, advancing cutting-edge research, training future generations of leading neuroscience specialists, and, most importantly, providing hope to patients and families living with debilitating neurological conditions.

In fiscal year 2024, the Foundation celebrated a remarkable \$50.9 million in fundraising revenue. This included a transformational \$25 million gift to start work on the Barrow Research Initiative—the Institute's strategic vision for the future of neuroscience—and \$10.1 million through the Women's Board of Barrow Neurological Foundation's annual Barrow Grand Ball. With the extraordinary generosity of our more than 4,000 passionate donors, we were able to transfer \$28.5 million to the Institute to support the work of its leading brain and spine specialists.

In this year's report, we're proud to highlight the many incredible ways your commitment to Barrow Neurological Institute fuels life-saving advancements in neuroscience.

YOU ADVANCE GROUNDBREAKING RESEARCH to transform Alzheimer's from a terminal disease to a chronic disease, provide new therapies for patients with brain cancer, and decode complex data to accelerate the development of new treatments in all categories of neurological conditions.

YOU ADVANCE LIFE-CHANGING CARE for patients in rural and underserved communities through the Tele-Stroke Program, for patients who have suffered a catastrophic brain or spine injury through the neuro-rehabilitation continuum, and for patients living with amyotrophic lateral sclerosis (ALS) through a new program that increases access to clinical trials.

YOU ADVANCE NEUROSCIENCE EDUCATION by providing opportunities for young students to gain hands-on neuroscience education, improving access to advanced neuroscience care in developing countries, and revolutionizing neurosurgical training with virtual reality platforms.

On behalf of the Barrow Neurological Foundation Board of Trustees, and all the physicians, scientists, clinicians, and faculty at Barrow Neurological Institute, thank you for entrusting us with your support. You are advancing neuroscience and impacting lives every day.

WITH GRATITUDE,



Michael T. Lawton, MD President and CEO Barrow Neurological Institute



Mitchel Sayare, PhD Chairman, Board of Trustees Barrow Neurological Foundation

2024 IMPACT



\$50,944,318 Total Raised | 4,047 Generous Supporters

\$28.5M

Transfers to Barrow Neurological Institute

70.1%



Your Support Advances Cutting-Edge Research.

CHANGING THE COURSE OF ALZHEIMER'S DISEASE

Alzheimer's disease slowly robs patients of their memories, personality, identity, and autonomy. Eventually, they no longer recognize their loved ones, and their loved ones no longer recognize them.

Philanthropic support enables the Alzheimer's and Memory Disorders Program, led by Anna D. Burke, MD, to pioneer research focused on rewriting this painful narrative for the 55 million people worldwide living with dementia.

Understanding the Causes and Mechanisms of Alzheimer's

Ashley Stokes, PhD, is investigating how Alzheimer's disease impairs interactions between different brain regions by applying novel imaging methods to preclinical models of the disease. This could bring us closer to developing new, more effective treatments.

Transforming Alzheimer's from a Terminal Disease to a Chronic Disease

Marwan Sabbagh, MD, FAAN, Vice Chair of Neurology Research, is evaluating whether the FDA-approved drugs Revlimid (used for bone cancer) and Mayzent (used for multiple sclerosis) can be repurposed to treat Alzheimer's disease.

Slowing Disease Progression

Yonas E. Geda, MD, is leading a study to determine whether implementing daily working memory training activities can slow the progression of Alzheimer's disease by improving executive functioning and psychological flexibility.

REDEFINING POSSIBILITIES IN BRAIN CANCER RESEARCH

The Ivy Brain Tumor Center, led by Nader Sanai, MD, is reshaping the global approach to brain tumor drug development. Thanks to the generosity of Barrow donors, the





Marwan Sabbagh, MD, FAAN, with patient Bobbie Jordan.

Ivy Center continuously pushes scientific boundaries, providing brain cancer patients with treatment options when they have been told there are none.

Data from the Ivy Center's Phase O/2 clinical trial of niraparib provided compelling evidence supporting the drug's potential as a new treatment option for patients with glioblastoma. Traditionally, advancing from a Phase 1 to a Phase 3 trial takes ten to fifteen years; however, the Ivy Center's streamlined approach significantly shortens this timeline.

In May 2024, the Ivy Center announced the Gliofocus Study, a global Phase 3 clinical trial in partnership with GSK, and dosed the first patient just five weeks later. The study will enroll 450 patients at more than 145 medical centers across 11 countries. The team intends to take successful study results to the U.S. Food and Drug Administration (FDA) as evidence that the drug can extend the lives of glioblastoma patients and should become the new standard of care. This study could transform outcomes for these patients worldwide.

The Ivy Center is constantly looking for new and better ways of dealing with these tumors, getting rid of them and keeping them away for longer. It gives you strength knowing that there are options."

-Carol Stevens, Ivy Center Phase O clinical trial patient

ACCELERATING BREAKTHROUGHS WITH DATA SCIENCE

With support from philanthropy, the Barrow Neuro Analytics Center is utilizing vast datasets to decode the complex patterns of neurological diseases and accelerate the development of innovative treatments. Led by Brad Racette, MD, FAAN, Chair of Neurology at Barrow, the Center will span nearly all categories of neurological diseases, with investigation methods including environmental epidemiology, advanced neuroimaging, global health, health services, health equity, and data science.



Brad Racette, MD, FAAN, and CEO of Plaza Companies Sharon Harper.

Linking Parkinson's Disease and Air Pollution

Using state-of-the-art geospatial analytical techniques, Barrow confirmed, for the first time, a strong nationwide association between Parkinson's disease and air pollution. The historic study led by Brittany Krzyzanowski, PhD, a postdoctoral fellow in the Neuro Analytics Center, found that people living in regions with median levels of air pollution have a 56% greater risk of developing Parkinson's than those living in regions with the lowest levels of air pollution.

Population-based studies like this have the potential to reveal important insight into the role of environmental toxins in other neurological diseases, including amyotrophic lateral sclerosis (ALS), glioblastoma, and Lewy body dementia.

PREVENTING ANEURYSM AND AVM RUPTURES

Led by Barrow President and CEO Michael T. Lawton, MD, the Barrow Aneurysm and AVM Research Center studies the genetics, formation, and rupture of aneurysms and arteriovenous malformations



Michael T. Lawton, MD, and Tomoki Hashimoto, MD.

(AVMs) to develop more effective treatments for patients worldwide. Barrow donors provide critical funding that allows scientists in the Center to test cutting-edge ideas. The data generated by these studies is essential to securing grants for larger studies and, eventually, clinical trials.

Aging and Aneurysm Ruptures

Tomoki Hashimoto, MD, is studying three cellular events involved with aging that could trigger an aneurysm rupture. He is utilizing preclinical models to evaluate potential drug targets to modify these events. He is also investigating whether blood tests detecting these events can be used to predict the risk of an aneurysm rupture.

Stabilizing AVMs with Genetics

AVM formation is linked to a mutation in the KRAS gene that causes it to produce an excess of a specific protein. Scientist S. Paul Oh, PhD, tested the drug doxycycline in a preclinical model to evaluate whether it could decrease the production of the protein and reduce the size of the AVM. The study was successful, bringing Dr. Oh one step closer to clinical translation.

You Helped a Valley Philanthropist Regain Control of His Life.



Jimmy Walker, Muhammad Ali, and Nancy Walker.

Jimmy Walker has spent the past six decades working with some of the biggest names in entertainment and sports,

including Andrea Bocelli, David Foster, Reba McEntire, Michael Jordan, Reggie Jackson, and The Greatest himself, Muhammad Ali. But through it all, he was silently battling a neurological condition that left him feeling like he couldn't control his movements.

Jimmy was 19 and at the height of his Arizona State University basketball career when his friend. and fellow athlete, Reggie Jackson first noticed the condition. He says he can still remember every detail of their conversation: "We were having breakfast one morning when Reggie suddenly asked me why my hands were shaking so much. I was immediately embarrassed and didn't know what to say. I just tried to hide it as best as I could."

Jimmy spent years trying to hide the shaking, but it kept getting worse. He finally went to see a doctor, who diagnosed him with essential tremor-a progressive movement disorder that causes uncontrollable shaking in the hands. That was in 1994, the same year Jimmy launched the internationally renowned Celebrity Fight Night benefiting the Muhammad Ali Parkinson Center at Barrow Neurological Institute.

"By the time Celebrity Fight Night came about, I wasn't even trying to hide the tremor anymore. I'd go into a meeting and straight away tell people I had essential tremor. Being honest about it at least helped a little," he says.

During the event's 21-year tenure in Phoenix, Jimmy became a regular presence at Barrow and got to know many of its physicians. "Every time I'd run into one of the doctors, they'd ask me when I was going to get the tremor fixed, but I kept putting it off. The thought of brain surgery, even by the best, really scared me," he says.

However, daily living had become almost unbearable. He had to brush his teeth with both hands and drink everything with a straw to prevent spilling. He says it would take him at least five or six tries just to sign his name: "I'd have to redo the same things over and over again because of the shaking. Every day, I grew more frustrated until I finally had enough."





With the support of his loving wife, Nancy, Jimmy took Barrow up on its long-standing offer to help. He met with neurosurgeon Francisco Ponce, MD, to discuss deep brain stimulation (DBS) surgery for the tremor. "Dr. Ponce explained everything about the surgery to me very carefully and even put me in touch with a few patients who had already been through it so they

I had tears rolling down my cheeks because I was so happy. I spent so much of my life being embarrassed by the tremor and trying to hide it. But thanks to Dr. Ponce and Barrow, I am finally free."

– Jimmy Walker, Valley Philanthropist could share their experience with me." DBS is a procedure that uses electrical stimulation to correct abnormal rhythms in the brain, much like a pacemaker does for the heart.

After a lot of deliberation, Jimmy strengthened his resolve and underwent surgery with Dr. Ponce. When he woke up the next morning, the shaking was completely gone.

Through philanthropy, neurologists like Holly Shill, MD, FAAN, director of the Muhammad Ali Parkinson Center, can work closely with Dr. Ponce on research to further refine DBS surgery for essential tremor, Parkinson's disease, and dystonia, providing relief to more patients.

Philanthropy also enables Barrow to advance DBS technology to clinical trials for epilepsy, chronic pain, stroke, tinnitus, and other previously untreatable conditions. Barrow is also at the forefront of focused ultrasound, a minimally invasive procedure, and brain-computer interface, which captures the brain's electrical activity to control a computer. These technologies have the potential to revolutionize treatment for the most complex neurological conditions, and your support makes it possible.





Your Generosity Advances Life-Changing Care.

RETURNING TO LIVING WITH CONFIDENCE

For many patients who have suffered a traumatic brain or spinal cord injury, aneurysm or AVM rupture, stroke, or brain tumor, the most challenging part of their journey comes after they leave the intensive care unit.

The Barrow Neuro-Rehabilitation Center helps patients regain their independence and self-esteem by providing a complete spectrum of care—from acute, inpatient, and outpatient services to school and work re-entry programs to therapeutic recreation. Philanthropy enables the Center to maximize patient outcomes by supporting innovative research, continuing education for therapists, and stateof-the-art neuro-robotics across the entire rehabilitation continuum.

After waking up from a coma caused by a massive stroke, I couldn't walk, speak, or eat on my own. Today, after graduating from the CTN program, I can walk entirely on my own. I got my driver's license and even work part-time."

— Dave Allen





INCREASING ACCESS TO STROKE CARE

A stroke can occur at any time and in any place. Thanks to generous Barrow donors, the Petznick Stroke Center is revolutionizing stroke care for all patients by expanding services outside of the clinic space.

The Center's Tele-Stroke Program connects Barrow vascular neurologists to other hospitals in real time, allowing them to diagnose patients and recommend treatment virtually. This service can be lifesaving for hospitals in rural and underserved areas that don't have vascular neurologists on-site.

Barrow currently has 19 Tele-Stroke sites across Arizona, including its two newest ones: Little Colorado Medical Center in Winslow and Chinle Comprehensive Health Care Facility, which serves 40,000 patients in the Navajo Nation annually. Barrow vascular neurologists and members of the Tele-Stroke team also provide ongoing education and training to medical professionals at all participating sites.

Dave Allen at Spring Training.

ENHANCING QUALITY OF LIFE IN PARKINSON'S DISEASE

As Parkinson's disease progresses, patients begin to experience substantial mobility impairments, difficulty eating and dressing, and trouble communicating. This is not only devastating for individuals with Parkinson's, but it also takes a significant toll on caregivers, many of whom are loved ones of the patient.

The Lonnie and Muhammad Ali Legacy Care Program and Legacy Caregiver Program, led by Holly Shill, MD, FAAN, provide comprehensive care to patients with advanced Parkinson's and vital support services to caregivers. Through the generosity of The Bob & Renee Parsons Foundation and Barrow donors, these programs impacted more than 53,000 patients and caregivers last year through respite care, clinic and home visits, virtual education and support groups, therapy classes, outreach, and more.

PUSHING BOUNDARIES IN PATIENT CARE

Finding Hope with Drug-Resistant Epilepsy

The Barrow Epilepsy Center recently acquired Arizona's first magnetoencephalography (MEG) system, a crucial imaging tool for identifying patients who would benefit from surgery to stop their seizures. The MEG can measure brain activity down to a millisecond, allowing epilepsy surgeons to precisely target the areas causing seizures.

Through philanthropy, the Center is expanding its MEG program to analyze neurological function in patients with traumatic brain injuries, strokes, and brain tumors, which could contribute to new and more effective treatments.

Expanding ALS Clinical Trials

Thanks to the generosity of Autumn and Bobby Henderson, Barrow launched the Henderson-Liebman ALS Expanded Access Program to allow more patients with ALS to



Holly Shill, MD, FAAN, with a patient.

participate in trials testing promising new drugs. In its first year, the program provided 20 patients access to experimental medications that would typically not be available through traditional clinical trials.

MEGIN



A Holistic Approach to Headache Care

With support from generous donors, the Lewis Headache Center provides comprehensive, individualized, and compassionate care to patients with headache disorders. This includes the latest treatments and therapies, as well as a Wellness Program comprising physical therapy, yoga, mindfulness, psychology, dietary consultations, and social work.

Your Support Advances Neuroscience Education.

INSPIRING FUTURE LEADERS IN THE FIELD

The Barrow Summer High School and Undergraduate Internship Programs, led by Rita Sattler, PhD, aim to educate the next generation of leading neuroscience specialists. Funded solely through philanthropy, these programs provide students with hands-on research experience under the mentorship of Barrow faculty, as well as opportunities to engage in physician-led seminars, technology workshops, and career panel discussions.

I gained excellent lab skills and a greater knowledge of neurodegenerative diseases during my internship. The wonderful environment at Barrow has encouraged me to pursue a scientific career and do good through medicine."

— Ryan Gutierrez,
 University of Notre Dame
 Undergraduate Intern



MAKING A GLOBAL IMPACT THROUGH EDUCATION

Philanthropy continues to fuel Barrow Global's mission of improving access to advanced neuroscience care in the developing world through education and training. With the generous support of the Franke family through the Franke Global Neuroscience Center, the Barrow Global program provides extensive resources to train neurologists, neurosurgeons, nurses, and staff at their site of origin. This Train *Forward* approach equips hospitals in developing countries with the skills to improve patient outcomes long after the Barrow Global Team has departed.



Rita Sattler, PhD with intern.

Barrow Global partner sites include Kilimanjaro Christian Medical Centre (KCMC) in Tanzania, East Africa, for neurosurgery, and the University of the Witwatersrand in Johannesburg, South Africa, for neurology.





Franke Global Neurosurgery Fellow Kerry Vaughan, MD, teaching residents at KCMC in Tanzania.

Revolutionizing the Future of Neuroscience.



REVOLUTIONIZING NEUROSCIENCE TRAINING

A Hub for Medical Innovation

Funding from Barrow donors enables the Thurston Innovation Center to provide Barrow residents and faculty with all the necessary resources to transform novel ideas into devices that can improve patient outcomes. Last year, it supported 20 research projects, 5 patent filings, and 11 medical device prototypes.

Notably, neurosurgical resident Brandon Fox, MD, PhD worked with





Brandon Fox, MD, PhD and Innovation Center Research Engineer Dakota Graham.

the Center to develop a novel device that measures a coma patient's level of consciousness. He has now completed all required safety testing and recently received approval to begin clinical trials in the intensive care unit.

A Course in Virtual Reality

The Virtual Reality (VR) Spine Laboratory is at the forefront of neurosurgical training. Made possible through philanthropy, it creates an immersive 3D environment in spinal anatomy that covers a wide breadth of procedures. Last year, the team launched its first validation study to gain real-world feedback from neurosurgery residents. Barrow's VR Spine Lab is unique in that the team has direct access to neurosurgeons and residents for their input on enhancing the applications.

Every Donation Makes a Difference.

Donations come in many different ways. Whether it's an endowed chair supporting top faculty, a bequest designation in your estate plan, or a match made through your company, 100% of your gift goes directly to what you are most passionate about. And every donation, no matter the size, advances neuroscience and transforms patients' lives.

ENDOWED CHAIRS

Critical to scientific discovery, Endowed Chairs help Barrow recruit and retain top talent and provide a stable source of funding to conduct innovative research.

My husband, Arte, and I personally know how devastating Alzheimer's disease can be for both patients and their loved ones. We share the same urgency for transforming Alzheimer's disease research as Dr. Marwan Sabbagh. We hope that with our support through the Moreno Family Chair for Alzheimer's Research, Dr. Sabbagh will be able to accelerate his vision of preventing this terrible disease before it starts."

Carole and Arte Moreno
 Established the Moreno Family Chair for Alzheimer's Research

We understand how difficult the journey is for
patients living with amyotrophic lateral sclerosis (ALS),
frontotemporal dementia (FTD), Alzheimer's, and
other neurodegenerative diseases. We are proud to
support Dr. Rita Sattler's innovative research to
understand the mechanisms of these devastating
diseases better and find specific drug targets that
can be developed into new therapies for patients."

 David and Weezie Reese
 Established the David and Weezie Reese Chair for Neurodegeneration Research

PROGRAM SUPPORT

Designating a gift to a specific department or program directly impacts the area that you are most passionate about.

We are honored to support Barrow's Summer High School Research Program and Undergraduate Internship Program. They provide such a valuable learning experience that gives students insight into the depth and breadth of the neuroscience field. We are humbled by Dr. Rita Sattler's incredible work expanding these invaluable educational opportunities to high school and college students across the country."

Christy and Daryl Burton
 Supported the High School and Undergraduate Education Programs

PLANNED GIVING

Designating a portion of your estate to Barrow ensures its continued growth and advancement while cementing your philanthropic legacy.

As a longtime supporter of Barrow, I truly believe in its mission of changing and saving lives. It brings me great joy knowing that part of my estate will go toward ensuring that the Sonntag Spine Center can continue vital research to improve patient outcomes well into the future. I am proud to be a part of the legacy of such a great institution." — Laurie Carson, Supported Barrow through an Estate Gift







Every Donation Makes a Difference.







ANNUAL GIVING

Gifts received from grateful patients and generous supporters throughout the year are vital to advancing Barrow's mission of saving lives.

- Dr. Sanai's expertise during my craniotomy and the treatment I received at Barrow has not only saved my life but has allowed me to thrive!
 Having been able to live for over a decade with brain cancer, I believe that giving back is imperative.
 I have come to find that every day is a gift, and
 I do my best to live to the fullest!"
 - Kelly Knolla, Grateful Patient of Dr. Nader Sanai

EMPLOYEE GIVING

Barrow employees express their passion for advancing neuroscience research, education, and care through PTO donations, payroll donations, one-time gifts, or multiple gifts.

By giving to Barrow, I am expressing my gratitude for the invaluable work that has been done and continues to be done in patient care, research, and education. The funds are being used in the best possible way, and it's our responsibility to support this great cause. Thank you for making this possible and including the staff in giving back!"

— Ravneet Kaur, Barrow Employee

COMPANY MATCH

Many companies offer "corporate matching" programs that enable employees to double the impact of their donation.

After learning about the incredible work happening at Barrow Neurological Institute, I decided to support Barrow as one of my philanthropic organizations of choice through our Corporate Giving Program. Having a personal connection to Barrow's mission inspired me to support a cause close to home. It feels good knowing we can make a difference in people's lives through the work we do every day."

— Michael Stauffer, American Express Employee

CORPORATE GIVING

Gifts received through organizations reinforce the community's commitment to supporting Barrow's mission.

Our donation is surely small compared to what other companies may contribute; nonetheless, we always feel very important and like we are making a difference. We were blown away by the sincere interest in Theresa's story and love that her legacy and memory can continue to help others who have suffered brain injuries."

— Cheryl Tisland and Margaret Peters, Small Business Owners

THIRD-PARTY EVENTS

By hosting events that support Barrow, donors raise funds and awareness about its life-changing work.

We know how much time and effort Barrow puts into its staff, research, and patients. We have family members and friends who are dealing with neurological diseases, and Barrow has worked tirelessly to help find cures, improve treatments, and stay at the cutting edge of new findings and technology. We appreciate all their hard work and will continue to support their efforts toward finding cures!"

- Bryan and Stacy Lester, Charity Golf Tournament Organizers

Every Donation Makes a Difference.

TRANSFORMATIONAL GIFT

Thanks to a \$25 million transformational gift from a generous donor, we have commenced work on the centerpiece of Barrow's strategic vision for exploring the mysteries of the mind. The Barrow Research Initiative will bring a better understanding of how the brain

functions as the mind, leading to novel solutions for patients debilitated by neurological conditions. Funded by philanthropy, our recruitment efforts will focus on three key platforms.

Neuroengineering Platform

The Neuroengineering Platform will focus on brain-computer interface (BCI), building devices that capture and

14,326

interpret the brain's electrical activity to control a computer or assistive device. This technology will enable patients to reach a higher level of performance or restore neurological function that has been lost to trauma or disease.

Decoding & Data Science Platform

The Epidemiological and Healthcare Databases will comprise electronic medical records and research from regions worldwide to develop new treatments. The Brain Recordings Database will take electrical signal recordings from electrodes implanted in the brain, providing an opportunity to decode thoughts and translate them into computer algorithms that can interface with assistive technologies.

Neuroimaging Platform

ППП

115

The Neuroimaging Platform will visualize brain structure and function with next-generation machines that see the mind at rest and during cognitive tasks. These imaging technologies will help guide surgeries, improve diagnostics, understand disease progression, and serve as biomarkers for therapeutic response.

Through the Barrow Research Initiative, we can create new devices to restore neurological function, improve care for a population with an ever-increasing lifespan, and ultimately provide insight into the cognitive processes that make us human.



Barrow President and CEO, Michael T. Lawton, MD.

2024 BARROW GRAND BALL

Last year, the Women's Board of Barrow Neurological Foundation raised \$10.1 million for Barrow Neurological Institute through the Barrow Grand Ball. The Ball Co-Chairs, Carrie Hulburd and Kathy Munson, along with the committed members of the Women's Board and its donors, raised funds to help Barrow physicians, scientists, and clinicians offer hope through research and treatments that improve patients' quality of life.

A majority of Barrow Grand Ball funds support research in critical areas, including stroke, Alzheimer's disease, Parkinson's disease, diabetes, aneurysms and AVMs, neuromodulation, neuroimaging, headache, brain tumors, spinal disorders, and more.

A Tradition Since 2006

The Women's Board annually selects a specific Barrow research department to receive special funding as the "Women's Board Project." For the 2024 Ball, they selected the Department of ENT and Skull Base Surgery: Hearing Health Science Program, led by Shawn Michael Stevens, MD, FACS.



Thanks to the generosity of the Women's Board. Dr. Stevens' vision to build an anechoic research chamber at Barrow is now being realized. This stateof-the-art chamber will allow researchers to tackle the most challenging questions in hearing health science, including the link between hearing loss and neurological conditions such as Alzheimer's, stroke, and movement disorders. Research utilizing the chamber is estimated to begin in 2025.



Carrie Hulburd, Kathy Munson, Dr. Michael T. Lawton, and Jan Lewis.



Shawn Michael Stevens, MD, FACS, inside the under-construction anechoic research chamber.

Barrow Neurological Foundation 2910 N. Third Ave., Ste. 450 Phoenix, AZ 85013

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