

Perspectives

Summer 2021

A message from our CMO

Thank you. Two simple, but meaningful words that only begin to express our appreciation for the overwhelming response to the first issue of our new quarterly newsletter, *Perspectives*. It was gratifying to hear that you found the content to be interesting, informative and useful – and we welcome your continued feedback. Our goal is for this publication to be a valued resource for you.

Thank you, too, for placing your trust in Baylor Scott & White Institute for Rehabilitation. We are honored that our Dallas hospital has been ranked one of the nation's best by *U.S. News & World Report* for 2021-22. This recognition is testimony

to our unwavering commitment to patient care excellence – not only at our Dallas campus, but our Fort Worth, Frisco and Lakeway hospitals and across our entire continuum.

In this issue, we highlight some of many programs and services that reflect this commitment. From innovative brain health, assistive technology and driving programs to a thought-provoking COVID-19 case study, we offer our perspective on the trends and issues that are making a difference in our patients' lives – and the field of medical rehabilitation.

Rita Hamilton, D.O.
Chief Medical Officer



Helping people thrive after brain injury

Traumatic brain injury (TBI) affects all facets of life, from physical, functional and cognitive abilities to managing relationships and responsibilities at home, work or school. For many individuals with TBI and their families, adjusting to these changes can be overwhelming. However, a new program developed through Baylor Scott & White Research Institute (BSWRI), in collaboration with Baylor Scott & White Institute for Rehabilitation (BSWIR), is helping to ease the transition to life ahead for those living with brain injury.

Long recognized for its expertise in treating TBI, Baylor Scott & White Health's network provides a highly specialized continuum of care that supports individual recovery and enables TBI survivors to regain their highest level of independent living. Starting in the trauma unit at one of our BSW Medical Centers, patients will progress to BSWIR's slate of comprehensive programs and services, depending on their needs: inpatient rehabilitation, outpatient therapy, day neurological rehabilitation and neuro-transitional rehabilitation. Inherent in all of these programs is a shared commitment to helping every patient go beyond their goals – to thrive, not simply survive.

More than a support group

That commitment led to the creation of the Brain Health Group, a unique year-long, 22-session educational support group for adults living with TBI. Developed by a team of Baylor research scientists and brain injury rehabilitation specialists under the North Texas TBI Model System,* this innovative program provides instructional seminars, group discussion and structured tasks that may improve overall well-being. It is at the center of a clinical study exploring and identifying healthy lifestyles following a TBI.

According to Donna Noorbakhsh, MS, CCC-SLP, CBIS, clinical liaison, BSWIR-Frisco, the program “focuses on ways to improve brain performance from the inside out. The first step is deciding to appreciate, protect and nourish one's brain with knowledge, nutrition and self-love, leading to a healthier and happier one.”

The group's motto is: Starting today, I will acknowledge what's gone, appreciate what remains and look forward to what's coming next.

The World Health Organization defines brain health as a “concept that encompasses neural development, plasticity, functioning and recovery across the life course.” The team has measured how the Brain Health Group’s support and education impacted participants’ mental and physical wellness, quality of life and progress towards individual goals. In addition, they tracked the use of the group’s “Brain Health App” that provided reminders, health tips, fun facts, strategies and encouragement to the participants.

During the COVID-19 pandemic, the group shifted from in-person to online Zoom meetings. This was yet another adjustment for participants, but one that helped provide consistency and continuity of care, support individual progress and maintain social connectedness in a time of social distancing.

An unexpected benefit of moving to a virtual platform was the research team’s confirmation of the feasibility and effectiveness of creating large-scale, online, group-based educational support.

What’s next for brain health?

As this important research study concludes, a key takeaway is the importance of community in dealing with TBI. Neither patients nor families need to face this journey alone. To that end, BSWIR is implementing a modified version of the Brain Health Group that will be a free resource for this patient population. The goal of this program remains - helping those with TBI learn the strategies they need, find new hope and ultimately thrive.

Our participants say it best

“One thing that I really like about this group is that it’s small and very informational. Instead of talking about how terrible this or that symptom is, I have been encouraged to do healthy and productive things, which has been empowering.”
– Heather

“This group is better than all of the others I’ve been to because of the teaching methods, conversations and the fact that we’re helping each other work towards goals.”
– Paulo

“This whole experience has helped me to understand ‘me’ and realize that I can and will continue on. I just have to believe in myself. I was in a different support group, and remember feeling like it was too soon after the accident to open up and trust anyone. It just didn’t feel good. This has felt good, like what we needed.” – Cheryl

Driving Program Growth



The ability to drive is considered a basic freedom, one that is often taken for granted. For many, getting to work, school or even the store is difficult, if not impossible, without a driver's license or vehicle.

When that skill is impacted by a medical condition, what options exist? The Adaptive Driving Program at Baylor Scott & White Institute for Rehabilitation (BSWIR), run by driver rehabilitation specialists (CDRS), assists patients in getting back behind the wheel.

Driving growth

Driving is one of the most complex activities of daily living (ADLs) to perform after extended illness or injury, requiring the expertise of a driver rehabilitation-certified occupational therapist.

Working in tandem with BSWIR's specialized Day Neuro Program, the Adaptive Driving Program provides an essential opportunity for survivors of stroke, brain or spinal cord injury or those dealing with other neurological conditions.

“The excitement when an experienced driver learns how to safely drive again using specialized equipment is fulfilling for the person and family. The other aspect that resonates with me is when a new driver learns to operate a vehicle - with or without special equipment - through individualized training techniques. We continue to be thankful for the success stories,” said Stephen Adams, an occupational therapist and driver rehabilitation specialist at BSWIR - Dallas.



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Expanding fleet

Our program includes an evaluation by specialists to identify the best modifications based on personal and vehicular needs. They also recommend and procure the correct equipment.

Most vehicles can be adapted to suit individual needs. Stroke survivors may need hand controls, pedal modifications or steering attachments to compensate for weakness on one side. Reduced steering effort, ramps and adjustable seats can help spinal cord injury patients.

In June 2021, a new, fully customized adaptive training vehicle, a 2020 Chrysler Pacifica, was put into service at BSWIR - Dallas. It was designed to give Adaptive Driving Program participants the opportunity to learn what is possible following an injury. This SUV is equipped with a six-way transfer seat, variable steering wheel, hand controls, steering attachments, pedal and secondary control extensions and special attachments for individuals with limb loss.

Additionally, the program's fleet includes an adaptive minivan and two sedans used for student driver training.

Assessment is key

Accurate assessment is vital for a successful, safe return to driving. Several occupational therapist-guided possibilities exist, including on-road experiences and digital simulations. A driving simulator at BSWIR-Frisco evaluates patient readiness through motor reaction time assessment

of braking and steering, visual scanning, divided attention, spatial reasoning and hazard perception skills. It provides a safe, virtual environment for practicing entering and exiting a vehicle and a variety of real-world driving scenarios.

This technology is especially helpful to patients with hemispatial inattention or visual field cuts, allowing them to practice hazard scanning and proper lane positioning. Typically, the simulator is used as a pre-assessment tool to identify whether patients can advance to the Adaptive Driving Program. Poor simulator performance can strongly indicate safety risks that preclude driving resumption.

More than just driving

Due to the nature and extent of their disability, not every individual is a candidate for driving. The BSWIR driver rehabilitation specialists frequently must make tough decisions for the safety of both the patient and the public, and recommend against driving resumption. In that case, the Adaptive Driving Program offers resources and education on accessing public transportation. The end goal is to help patients succeed in regaining independence, whether behind the wheel or through other transportation methods.

Assistive Technology

Opening the door for people with disabilities

Since the Industrial Revolution, technology has transformed how we live, work and communicate. For people with disabilities, it has helped to improve or restore function while increasing independence at home and in the community.

Baylor Scott & White Institute for Rehabilitation (BSWIR) – Dallas has long been at the forefront of therapeutic technological advancement. In 2018, the hospital launched a formal Assistive Technology Program designed to promote early device adoption. Led by Occupational Therapist Jill DeHamer and Rehabilitation Engineer Rex Moses, the program has enhanced patient engagement, improved functional independence and facilitated the transition to life ahead.

About the program

“This innovative program is an adjunct to the array of therapy services we provide, serving as a bridge from hospital to home,” said DeHamer. “We know patients want to maximize independence and regain control over their environment. They want to feel safe, comfortable and confident at home, work or in the community. Technology is making that happen.”

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During their stay, patients may use robotics, virtual reality and other technology-based platforms in conjunction with evidence-based therapies to improve skills and function. DeHamer and Moses collaborate with the therapy and nursing teams to identify patients who could benefit from the assistive technology program, particularly those recovering from a stroke, brain injury, spinal cord injury or amputation or managing a progressive neurologic condition. The program is then tailored to the individual’s needs, functional abilities and rehabilitation goals.

“Most patients today are familiar with smart phones and computers. Many also have a smart speaker, like Google or Amazon’s Alexa, at home. What they typically don’t realize is that these devices and other consumer electronics can be adapted or programmed to improve their independence and quality of life,” said Moses.

Opening new doors

Education is a key program component. With a large and ever-changing product inventory, the program team allows patients to trial various devices during their stay, from low-tech items, such as phone mounts or lap boards, to advanced tools like visual tracking and augmentative communication systems. Among the most popular are the endless variety of applications – “apps” – for phones, tablets and computers. These can be used to manage medications, better communicate with family and friends, and control environments, including opening doors, turning on lights and operating equipment.

“There is nothing better than entering a session with an individual, showing them the technology that’s available and leaving with them floored by the impact these small devices have on their quality of life,” said DeHamer.

Keeping up with evolving technology is the biggest challenge. The team conducts extensive research and explores advances from companies such as Amazon, Apple, Google and Samsung, in addition to medical equipment developers. By introducing these apps and assistive devices, BSWIR continues to improve patient outcomes and literally helps open new doors to independence.



Adaptive video gaming device.



Phone mount and head controls.



Saebo mobile arm support device.

Leading the way in Lakeway

An interview with Medical Director Dr. Farheen Khan



At a national medical conference in late 2018, Dr. Farheen Khan met Dr. Amy Wilson, then-chief medical officer for Baylor Scott & White Institute for Reha-

bilitation (BSWIR). Their conversation revealed a shared passion for medical rehabilitation and vision for advancing the field. When Dr. Khan subsequently mentioned she and her family planned to relocate from Louisiana to Austin, Texas, Dr. Wilson knew she had the ideal candidate for the position of medical director at BSWIR-Lakeway.

Perspectives: It sounds like you were in the right place at the right time.

Dr. Khan: It really was a serendipitous meeting, or maybe just fate. I was born and raised in New Orleans, did my residency at Louisiana State University Medical Center and became medical director at Christus St. Frances Cabrini Hospital in Alexandria, about three hours north of my hometown. My husband, who is an ophthalmologist, received an exceptional career offer in Austin. We discussed the pros and cons, including having to uproot our three young children, and realized that

while we would miss family and friends, this was too important an opportunity to pass up.

Perspectives: You joined BSWIR-Lakeway in January 2020 – just prior to the COVID-19 pandemic spreading across the county. How did that impact your initial goals?

Dr. Khan: I was looking forward to building a strong, collaborative team to drive delivery of safe, high-quality patient care at our 36-bed hospital. I wanted them to be responsive to the needs of our diverse patient populations and lead the way in innovative treatment and outcomes. I also sought to expand BSWIR's exceptional reputation across central Texas.

Fortunately, I had a few weeks to settle in, work with the team and set some goals before COVID took root. We quickly switched gears to adopt the necessary practices, implement new processes and follow CDC, Baylor Scott & White Health and Select Medical guidelines.

Perspectives: Did you have any particular concerns?

Dr. Khan: My first concern was, of course, the health and safety of our patients and staff – especially since so much about the virus was unknown. We were tasked

with meeting the unique needs of COVID survivors, continuing to manage the complexities of our other patient populations – and, of course, keeping everyone safe. With our ‘Safe Care’ protocols in place, we were able to mitigate any concerns patients and families had about receiving the inpatient rehabilitation services they needed.

On another level, I hoped that the level of collegiality and team spirit we had begun to experience wouldn’t falter under the weight of PPEs and other mandates. I wondered how we would come to know the face – the person – behind the mask, which is so important to fostering trust with patients and across the entire medical, clinical and administrative team.

We came to understand that we were in this together and by remaining united we would overcome COVID’s challenges. Communication was key.

Perspectives: When did you see things turnaround?

Dr. Khan: When masking and social distancing started to become the new norm. It became apparent that we would have to find a way to treat patients with precautions in place, keeping the safety of patients, staff and families top of mind.

Perspectives: You bring a wealth of knowledge to your role. How did you decide to specialize in medical rehabilitation?

Dr. Khan: Like many med school students, I wasn’t sure what direction I wanted to go. [Dr. Khan graduated from Western University of Health Sciences, Pomona, California] An internal medicine rotation at Rancho Los Amigos in Los Angeles introduced me to rehabilitation. I found working with patients with brain, spinal cord and other neurologic injuries, stroke and orthopedic trauma to be both challenging and gratifying. I completed my academic training, became board certified in physical medicine and rehabilitation and later earned certification in pain management.

Perspectives: What is your vision for BSWIR-Lakeway going forward?

Dr. Khan: The Lakeway/Austin area is experiencing remarkable growth and the demand for quality rehabilitation programs and services is expected to expand as well. We’ve been building strong relationships with acute care providers throughout the region, including BSW Medical Centers. Although we’re located about 20-25 miles outside Austin, our scope of services, including specialized day neuro and new wound care center programs, contribute to our burgeoning reputation as a rehab provider of choice.



A surprising background

Dr. Khan is an accomplished Bollywood dancer, choreographing for and performing at cultural and social events. She finds dancing to be “a great stress reliever,” especially in these challenging times.



BSWRehab.com

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