

2021/22 Annual Report

UofL Hospital
J. David Richardson Trauma Center

UofL Health

THE POWER OF U



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A Letter from your Trauma Center Leaders

Working in health care does not always lend itself to many moments of peace or tranquility; in many instances, the intense pace of our chosen profession can make it difficult to look ahead to the future, let alone the past years.

Despite this frenzied pace, it is important that we take time to reflect upon the last two years of our lives. There is so much good that has happened as a direct result of the labors of our dedicated trauma team, and that good necessitates both reflection and recognition. This past year has also been one of tremendous loss. We continue to mourn the deaths of our dear friends and colleagues, Wanda Bowen, our long serving trauma registry manager, and Dr. J. David Richardson, our nation’s most distinguished trauma surgeon. Their contributions to the lives of our patients and UofL Health – UofL Hospital will be felt by many for generations to come, as their lives and examples add to the storied legacy of UofL Hospital’s dedication of service to the residents of our region. May they rest in peace, and may we live our lives in honor of their memory.

As we move on from the disruptions of the COVID-19 pandemic, we would like to extend special recognition to our team for their courageous efforts over the last several years. We as a health care institution and as a nation have asked a lot of our health care providers, and when the call of duty came, our team never waived, never faltered in their efforts to serve our patient population. We owe our team a tremendous debt of gratitude that can never be repaid. As restrictions around the country continue to lighten, let us together embrace the gradual return to normalcy.

We are also excited to announce additional growth to our hospital in the form of a \$144 million expansion to UofL Hospital in downtown Louisville. This expansion will include the construction of a new seven-story tower, which will help to increase our operating room capacity, improve the patient experience and expedite a phased modernization to our facilities. This growth provides exciting opportunities for our entire UofL Health team, and will allow us to better serve our patient population as we strive to provide the highest quality of care possible.

Additionally, we are excited to share our recent completion of the American Burn Association (ABA) Burn Verification, which stands as a testament to the hard work of Michelle Broers, PT, DPT, CWS, FACCWS, our Burn Medical Directors Dr. Bozeman and Dr. Franklin, and the burn unit team. As we continue to treat increasingly complicated burn wounds, we are reminded that our recognition and growth would be impossible but for Michelle’s efforts and commitment to provide top-notch care for our burn patients. Congratulations to Michelle and her team on a hard-won recognition.

In May of 2022, we celebrated the 100th anniversary of the American College of Surgeons Committee on Trauma. This event was attended by Governor Beshear, Mayor Fischer and other representatives. This celebration marked a century of continued and dedicated work to treat trauma patients in the area, and allows us to look with confidence to the future as we continue our efforts to provide the highest possible quality of care for the coming century.

Looking to the year ahead, we hope to continue to grow our facilities, our teams and our relationships with those in the Louisville community. As always, you are more than welcome to reach out to us for any need or concern. We stand ready to help in any way we can.

Brian G. Harbrecht, M.D., FACS
Medical Director, Trauma Services
UofL Health – UofL Hospital

Kim Denzik, MSN, RN
Director, Trauma Institute
UofL Health – UofL Hospital

UofL Health – UofL Hospital

Since 1823, Louisville City Hospital and its successors have served the medical needs of the citizens of Louisville, Ky. Now called UofL Health – UofL Hospital, our hospital is an academic teaching and research hospital located in the heart of Louisville, and continues the storied legacy of care that has made our hospital known throughout the country. We serve as a primary adult teaching hospital for the University of Louisville’s School of Medicine, educating and training the next generation of top-tier medical providers.

ACS-Verified Level I Trauma Center

The most severe injuries necessitate the most intensive and experienced care. We are extremely proud of our designation as the region’s only American College of Surgeons (ACS) Verified Level 1 Trauma Center. This means that we have achieved the highest level of verification to deliver care to adult patients with the most severe injuries, one of only two Level 1 adult trauma centers in the Commonwealth.

Emergency Department

As the region’s only Level 1 Trauma Center, our Emergency Department (ED) receives a high influx of patients - over 60,000 patients a year. Our ED is staffed by some of the finest clinicians around, providing unparalleled and compassionate care to those in need. Our ED is made up of a rapid assessment triage area, over 30 treatment rooms, four acute resuscitation bays, a triage area to prioritize life-threatening conditions and a decontamination area for chemical and biological decontaminations - the only facility in the region that can do so. Some of the emergency conditions we offer treatments for include strokes, burns, high-risk obstetrics, and emergency psychiatric services.

Not every patient that comes through our doors has a life-threatening emergency condition, but still requires expert care processed quickly. For circumstances and situations like these, we offer a First Care area specifically designed to quickly assess and treat minor illnesses or injuries. This area is open 24/7 and is staffed by highly experienced Advanced Practice Registered Nurses. Our goal is for patients to have a medical screening exam within 30 minutes of their arrival and to be seen, treated and released within 120 minutes. While this goal may sound lofty, it’s a stark reminder of our commitment to providing unmatched care for our patients.

We also have ED care options such as forensic nursing care to victims of sexual assault, family and intimate partner violence, offered through trained Sexual Assault Nurses (SANEs). Our hospital is the largest provider of these services in Kentucky and remains the only hospital in the region to offer intimate partner violence forensic examination services. Last year, over 800 victims received forensic nursing exam services by SANEs.

It is important to remember that treatment and life after trauma doesn’t end with discharge or release. To provide continued treatment, our dedicated team of Social Workers act as advocates to help our patients find access to the resources they need.

Trauma ICU

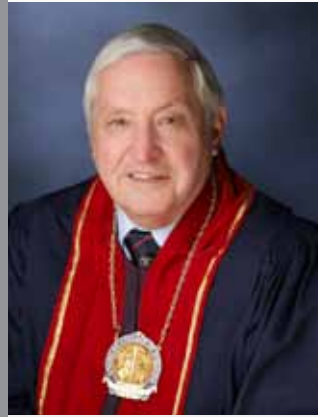
To treat the most severe and life-threatening conditions, we have two trauma/surgical intensive care units (ICUs). Each trauma ICU has been recognized by the American Association of Critical Care Nurses (AACN) with the Silver Beacon Award for Nursing Excellence, a recognition earned through hard work and compassionate care.

Operating Rooms

We staff 16 inpatient and 8 outpatient operating room (OR) suites. Our ORs are staffed and equipped 24/7 with all necessary personnel and materials to perform the most complex surgeries, and stand ready for use within minutes of a trauma patient’s arrival.

Burn ICU

Some of the most complicated treatments involve burn patients. We provide comprehensive care through our recently expanded adult burn care unit, the only such dedicated burn unit in Kentucky. Our current Burn Center Capacity is over 16 beds.



J. David Richardson, M.D.
Vice Chair and Professor

Leaving a *Legacy*

UofL Hospital
J. David Richardson Trauma Center
UofL Health

On May 16, 2022,
our Trauma Center was
renamed to honor the legacy of
Dr. J. David Richardson of the
Department of Surgery.

Dr. Richardson received multiple University of Louisville Distinguished Faculty Awards and was named the Ephraim McDowell Physician of the Year. He received the Distinguished Alumni Award from the University of Kentucky College of Medicine, the Distinguished Service Award from the Southeastern Surgical Congress, an honorary doctorate degree from Morehead State University, and was named an honorary fellow of the Southern Surgical Association, among many other honors and awards.



Dr. Richardson continues to be missed by those who loved and worked with him. In naming our trauma center after Dr. Richardson, we honor his legacy, memory, and years of service to the Louisville community. May the center that bears his name continue to operate and serve others by his example and in his memory.



UofL Hospital
J. David Richardson Trauma Center
UofL Health

Tribute to J. David Richardson, M.D.

May 7, 1945 – September 7, 2021

Written by
Kelly M. McMasters, M.D., Ph.D.

Dr. J. David Richardson attended Morehead State University and graduated from the University of Kentucky School of Medicine in 1970. He began general surgery residency at the University of Kentucky and transferred to the University of Texas Health Science Center at San Antonio to complete residencies in general surgery and thoracic surgery. His accomplishments included becoming one of the nation's few quadruple board-certified surgeons: in general surgery, thoracic, vascular and surgical critical care. Dr. Richardson joined the University of Louisville School of Medicine Department of Surgery in 1976 as assistant professor, and by 1982 reached the rank of professor. He served for many years as the Berel L. Abrams, MD Endowed Chair in Surgery, Chief of the Division of General Surgery and Vice-Chair of the Department of Surgery. He received multiple University of Louisville Distinguished Faculty Awards and was named the Ephraim McDowell Physician of the Year. He received the Distinguished Alumni Award from the University of Kentucky College of Medicine, the Distinguished Service Award from the Southeastern Surgical Congress, an honorary doctorate degree from Morehead State University and was named an honorary fellow of the Southern Surgical Association, among many other honors and awards.



Dr. Richardson speaking with colleagues.

Dr. Richardson was a prolific scholar, publishing over 375 articles, 58 book chapters and one book. A gifted and popular speaker, he delivered no less than 50 named lectureships and served as visiting professor at 98 additional institutions. He served on many editorial boards and was the long-time Editor-in-Chief of *The American Surgeon*.

Dr. Richardson was a leader in many surgical organizations. He served as president of the American Association for Surgery of Trauma, the Southern Surgical Association, the Western Surgical Association and the Southeastern Surgical Congress. He was treasurer of both the Society for Surgery of the Alimentary Tract and the Society of University Surgeons. He served on the Residency Review Committee for Surgery and became vice-chair. He was a long-time Director of the American Board of Surgery and served as chair. Dr. Richardson served in numerous capacities at the American College of Surgeons, eventually becoming chair of the Board of Regents. In 2015, he became the 96th President of the American College of Surgeons.



A younger Dr. Richardson during his time spent operating.

Dr. Richardson with several Future Healers kiddos, Dr. Keith Miller and Christopher 2X.

Dr. Richardson was also well known for his passion and success in thoroughbred racing, horse ownership and breeding. He raised and sold over 1,000 horses that ultimately won races. Dr. Richardson served as chairman of Thoroughbred Owners and Breeders of America and as chair of its American Graded Stakes Committee. He also served as a longstanding member of the Breeders' Cup and was a past director of the board. While he was at home rubbing elbows with horseracing's elite, he was even more at home with those who worked in the stables. He spent a lifetime trying to provide better medical care for those on both the frontside and the backside of the track.

Dr. Richardson was a compassionate physician, a master surgeon, an award-winning educator, the consummate mentor, a prolific researcher and scholar, a leader in academic surgery, an accomplished horseman and a devoted family man. Yet to those who knew Dr. David Richardson, he was a friend and colleague like no other; we will always cherish and honor his memory.



Brian G. Harbrecht, M.D.
Trauma Medical Director
Professor

Trauma Surgeons

In addition to serving the trauma patients of UofL Health, our UofL Hospital trauma surgeons serve as teachers and researchers at the University of Louisville School of Medicine. Their work directly and positively impacts the lives of hundreds, if not thousands, of Louisville's patients and future physicians.



Glen A. Franklin, M.D.
Burn Medical Director
Professor



Keith R. Miller, M.D.
Assistant Trauma Medical Director
Associate Professor



Jason W. Smith, M.D., Ph.D., MBA
Chief Medical Officer
Professor



Matthew C. Bozeman, M.D.
Burn Medical Director
Associate Professor



Nicholas A. Nash, M.D.
Director of Surgical Critical Care
Fellowship, Associate Professor



Matthew V. Bennis, M.D.
Surgical Residency Program Director
Associate Professor



Samuel J. Pera, M.D.
Assistant Professor of Surgery

Dr. Samuel J. Pera is an Assistant Professor of Surgery in the Department of Surgery at the University of Louisville. He is an acute care surgeon specializing in trauma, emergency general surgery and surgical critical care. He completed his general surgery residency at the University of Illinois College of Medicine Peoria and his trauma and surgical critical care fellowship in Louisville at UofL Hospital. His focus is predominantly on acute care surgery, particularly advanced laparoscopic and robotic techniques.



Jamie J. Coleman, M.D.
Vice-Chair of Wellness
Associate Professor

Dr. Jamie Coleman join us from Denver Health, where she served as both a trauma and acute care surgeon, as well as an Associate Professor of Surgery at the University of Colorado. She completed medical school in 2005 at the University of Tennessee in Memphis, followed by her general surgery residency in 2010 with the Cook County Hospital in Chicago. Following this, she completed a two-year trauma and surgical critical care fellowship with Grady Memorial Hospital in Atlanta. Dr. Coleman's primary research revolves around sleep deprivation and stress physiology in both surgeons and physicians. Dr. Coleman and her work have been featured in *Huffington Post*, *US News and World Report*, *Forbes*, *CNN* and *Good Morning America*.

Department of Surgery Leadership



Kelly M. McMasters, M.D., Ph.D.
Chair and Professor



Alexander Williams, M.D.
Anesthesiology



Claire E. Meena-Leist, M.D.
Blood Bank



Nicholas Nash, M.D.
Critical Care



Adam Ross, M.D.
Emergency Medicine



Emily Sieg, M.D.
Neurosurgery



Brandi R. Hartley, M.D.
Orthopedics



Jonathan K. Joshi, M.D.
Radiology



Bradon J. Wilhelmi, M.D.
Plastic & Reconstructive Surgery



Joshua Choo, M.D.
Plastic & Reconstructive Surgery



Ryan Shapiro, M.D.
Plastic & Reconstructive Surgery



Kim Broughton-Miller, DNP, APRN



Diana Blevins, APRN



Michelle Frisbie, APRN



Jennifer Fox, APRN



Kelly Goshorn, APRN



Beth Zanaglio, APRN

Trauma and Burn Liaisons

Victims of trauma and burns require highly complex treatments, clinicians, specialists and care solutions from our multidisciplinary team at UofL Health. This care extends beyond their time in the hospital, to include outpatient care after they've been discharged. A special thank-you goes to our trauma and burn specialty liaisons who provide and supervise the multidisciplinary input for the care of trauma patients and in the Quality Improvement Program of trauma care.

Nurse Practitioners

Our trauma nurse practitioners are board certified and educated at a Master's or Doctorate level with advanced clinical training to diagnose, manage and treat patients in the trauma service line. The nurse practitioners work autonomously and collaboratively with the attending physicians and the surgical residents in a variety of modalities, including performing procedures, monitoring patient progress, formulating treatment plans, providing staff education and more. This collaborative team-based care is designed to provide our patients with the compassionate and holistic solutions they need.

Resource Nurses

In collaboration with our ED and ICU nurses, our trauma resource nurses provide ongoing care for our most critically ill trauma patients. In the ED, they assist with trauma evaluations and help transition patients through their initial phase of care to the inpatient unit. Additionally, they provide ongoing education best practices to our nursing staff. Their work keeps our team current with the latest research and care options, while providing the some of the sickest patients with the up-to-date care they need to recover from their injuries.



Chantal Hutchison, BSN, RN



Alex Wild, BSN, RN



Molly Murphy, BSN, RN

Administration

The Trauma Institute supports the daily operations of the Trauma Center with a multidisciplinary approach to everything from patient care to community outreach and clinical education.



Kim Denzik, MSN, RN
Director, Trauma Institute



Stefanie Upton
Department Coordinator, Trauma Institute

Trauma Data Analyst Team

Our trauma analysts collect over 250 uniform data elements on every patient that is admitted. The data describes the injury event, demographics, pre-hospital information, care and outcomes. The trauma data is coded, compiled, analyzed and benchmarked with other national trauma centers. Trauma data is an important tool that is utilized for performance management and improvement, research and injury prevention.



Samantha Baker, AS, CAISS
Trauma Quality Analytics Manager



Patrick Torpey, BS, CAISS
Lead Trauma Data Analyst



Donna Collins



Lerita Ford, CPC



Joni Perry, MSN, RN



Carol Meade, BSN, RN, CPC



Amanda C. Talai, BA, CPC, CAISS

Not pictured:
Amelia Harshfield, RN

Social Workers

Our top-notch team of trauma social workers provide our patients with bedside therapeutic counseling and interventions. While most of our team helps our patients with the medical needs traumatic injuries require, our social workers help our patients to adjust to life after trauma, helping them to live full and meaningful lives after the incident has taken place. As part of a holistic care approach, our trauma social workers connect patients with hospital and community resources intended to address the emotional and physical needs of their recovery. Additionally, our social workers lead our peer support program, which connects current patients with visitation from previous patients who have experienced similar injuries and trauma support groups, which help patients and families connect. These sessions help patients take some of the first steps in the long journey to emotional recovery. While the physical scars and wounds may heal over time, the mental and emotional strain can take years to process and our trauma social workers help hasten this recovery.



MacKenzie Binkley, MSSW, CSW



Katie Rose, MSSW, CSW

We are excited to add two trauma social workers to our team: Mackenzie Binkley, MSSW, CSW, and Katie Rose, MSSW, CSW. These two, in addition to long-time social worker Jennifer Youngberg, MSSW, CSW, provide a variety of services like substance abuse assessments, mental health screenings and connections to community resources. Additionally, they provide follow-up to our patients in the outpatient clinics in order to provide continuum of care. Services like these allow us to more holistically care for our patients, allowing them to live a full life after their injury.



Jenny Youngberg, MSSW, CSW



Roo, CGC

Expanding our trauma social worker team is the Trauma Facility Dog, Roo. Roo is a 3 year-old boxer lab with a full heart and loving spirit. In the days after an acute traumatic incident, Roo is able to provide a calming and supportive presence to patients coping with the worst days of their lives. She is an invaluable asset to our trauma team. Jenny Youngberg, MSSW, CSW, is Roo's handler, and arranges for visits in the hospital.



Lindsey Journey, MSW, LCSW

Lindsey Journey, MSW, LCSW, is our hospital's leader of the Bounce Academy, a trauma-informed care training developed specifically for health care providers. Lindsey has recently transitioned into a new role as an employee wellness manager, and continues to assist the trauma team as our art therapy student supervisor.

Community Health Workers

Our dedicated team of community health workers lead the hospital violence intervention program, which provides supportive resources to patients with gunshot or stabbing injuries from interpersonal acts of violence. They round on patients during their hospitalization and provide post-discharge follow-up support to reduce the likelihood of re-injury. While Louisville sees tragic violence throughout the year, our team of community health workers acts as an initial touch point for victims to begin to take next steps and live a life after a violent incident, and begin the path to healing.



Kiara James, MA, CCHW
Community Health Worker Supervisor



Amy Mattingly, M.Ed, LPATA
Community Health Worker Trauma Program Art Therapist



Ruth White, AA
Community Health Worker



Shawn Williams, AS
Community Health Worker



Janae Wright
Community Health Worker



Tracie Burchett, MSN
Trauma Outreach and Education Coordinator

Outreach and Education

Tracie Burchett, MSN, serves in a dual capacity, providing both in-hospital education, as well as education and outreach to referring facilities and EMS agencies. Within the hospital, Tracie facilitates the ATLS and ASSET courses for residents and physicians. For nursing staff, she coordinates the TNCC certification course in addition to the yearly trauma continuing education. In her outreach role, Tracie provides education for EMS agencies in the area, and facilitates communication between agencies and the hospital team; this is done in order to provide the best care possible to trauma patients. Tracie is also responsible for maintaining communication and relationships between our trauma team and our referring hospitals. Each year, Tracie is a part of the team that organizes the Kentucky State Trauma and Emergency Medicine Symposium, a two-day conference for all roles within the trauma system of care to network and learn.

Injury Prevention

Our job as the regions only level one trauma center is to treat the most intensive and life-altering injuries and conditions that can happen to a person, addressing both the physical and mental wounds they might incur. But what if we could take steps to prevent some of these traumas from happening in the first place? Enter our injury prevention team.

This group responds to the leading causes of injury among our patient population by developing prevention initiatives. Injury prevention initiatives empower those within our community to have the skills and knowledge to prevent traumatic injuries. This team additionally works with community and governmental agencies to shed light on health issues faced by our community and utilize data to drive the development of effective prevention strategies.

Performance Improvement Coordinators

Through systematic review of patient records, collaboration with multidisciplinary teams and data-driven analysis, our Performance Improvement (PI) program works to rapidly identify risks for poor patient outcomes. PI coordinators work to ensure our mitigation strategies are successful by identifying current evidence-based practices, developing innovative solutions, and continually monitoring our efforts to hold ourselves accountable for delivering high-quality care to our patients and communities.



Jil Georgel, BSN, RN, TCRN
Trauma PI



C. John Luttrell, BSN, RN
Trauma and Burn PI



Scotty Perry
Photographer



Conner Mackowiak
Copywriter



Robin Thompson
Designer

Thank you to the honorary members of the trauma team for their contributions on this report.

A Memorial for Wanda Bowen, in the words of her closest friends and colleagues.



Coworkers. Everyone has them and everyone has stories about them.

Coworkers can make for perplexing relationships. On average, one spends more waking hours with their coworkers than their friends and family. Coworkers are often among the first to hear major news (good or bad) that concerns you and can be the first you go to when it's time to celebrate or commiserate. Some coworkers can be great, others can be a living nightmare. Sometimes they're friends, sometimes they're much less.

But every once in a while, you get a coworker who becomes so much more than just a work colleague or confidant. Sometimes, you get a coworker that transcends workplace friendships and becomes part of the extended family. In the case of Samantha Baker, Theresa Baker and Kathy Cookman, the late Wanda Bowen was one of those special people who started as a colleague and became family.

Wanda Bowen was the Trauma Registry Manager with UofL Health from 2010 through 2019. A Registry Manager is one who studies the patterns, severity and causes of injuries affecting a community. This kind of information and data can be critical when it comes to understanding underlying issues that can cause injury or harm over time. As a result, this position forms the "backbone" of any trauma program. In understanding these underlying factors, one can better develop prevention strategies which can lead to a safer, healthier population. Samantha Baker, trauma quality analytics manager for UofL Health, notes that Wanda was recruited to work with Kathy Cookman and KJ Trauma Consulting to, "... get the program into shape when Dr. Harbrecht, the trauma medical director, took over."

Kathy Cookman and KJ Trauma Consulting had already been working with UofL Hospital prior to Wanda joining, but it was Kathy's endorsement as, "the perfect person for the job," that won Dr. Harbrecht over. Wanda had the kind of personality and strength that couldn't be subdued by the everyday things in life that would derail most. "When they interviewed her, she was sick during her first interview with Dr. Harbrecht. I mean, sick, flu-sick. She still rocked it, because that's just who Wanda was," Kathy recalls.

In describing her position, Kathy notes, "She's all about data. She actually created a database when she was at a pediatric facility in Ohio just because she was bored. She had quite the analytical mind but she was also very creative in that both her left brain and right brain were quite amazing. I'm not just saying that because she's my best friend, but she literally had the analytical side of things but also was extremely creative."

Wanda's data was necessary in helping UofL Hospital to provide the highest quality of care for patients. "I think if you ask anybody on a scale of 1-10 how they'd rate Wanda in her honesty, creativity and excellence for data, I think everyone would rate her at 11. She was fantastic in that she cared about people, and she knew the data had an overall impact on

the patients. If you don't have quality data, then the way in which you care for a patient is going to change." This reputation preceded Wanda, as she was recognized both locally and nationally for her efforts. In fact, she was appointed by the Lieutenant Governor of Ohio to sit on the state's Trauma Registry Advisory Committee, and served as chairwoman of the Board of Certification for CAISS, an important national trauma registry organization.

When Samantha and Kathy were asked about any funny memories they have of Wanda, both women immediately started laughing, in the way that only close friends can when recalling stories about a loved one. "She would light up a room when she walked in, never knowing a stranger," Kathy notes. "People would just gravitate towards her not just for her knowledge, but because she was funny. She loved unconditionally, she loved to travel." Samantha described her sense of adventure, noting, "We had long talks about her converting her RAV4, buying a teardrop trailer and all of that." Her love of the flavor of life extended to some of the finer offerings of the fine state of Kentucky; "She loved her bourbon. Moving to Kentucky was appropriate for her," the two recall with laughter. "Her smile is infectious. She always had it, even on her darkest days when she was sad and tired, she always had that smile. It just radiated everywhere."

Theresa also had plenty of fond memories of Wanda, having actually lived as roommates for several years. Theresa served as the former trauma education and outreach coordinator, where her friendship with Wanda developed. Theresa and Wanda shared a multifaceted relationship as coworkers and dear friends, and they shared many adventures together over the course of their friendship. One specific and long-standing tradition they had was every Thursday, after the weekly trauma performance improvement meeting with Dr. Harbrecht, the two would meet with other friends and coworkers for some much needed relaxation and margaritas at Wild Rita's on Market Street. They were both well-known there and everyone knew they could be found there on Thursday evenings.

Kathy and Samantha were asked which words they would use to describe Wanda. Kathy described her as, "Vibrant, intelligent, compassionate, ornery, trustworthy. She was my best friend. She's the only person who knows me inside and out." Samantha described Wanda as, "Inspiring, fiery, adventurous, loving."

Wanda Bowen passed on December 9, 2021, with Theresa by her side in her final moments. Wanda was briefly on in-home hospice care, with Theresa there caring for her until the very end. She is survived and lovingly remembered by her friends, family and those who worked with her.

Coverage

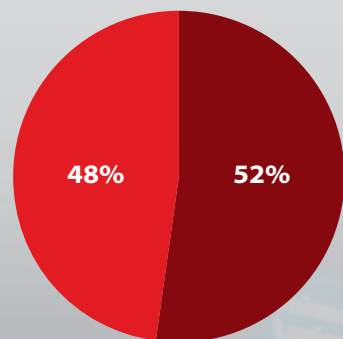
A Regional Resource

In 2021/22, UofL Hospital cared for 8,411 trauma patients; over half of those patients resided outside Jefferson County (Louisville). The number of patients coming from across Kentucky and Indiana indicates what a vital resource UofL Hospital – J. David Richardson Trauma Center is to communities in the region.

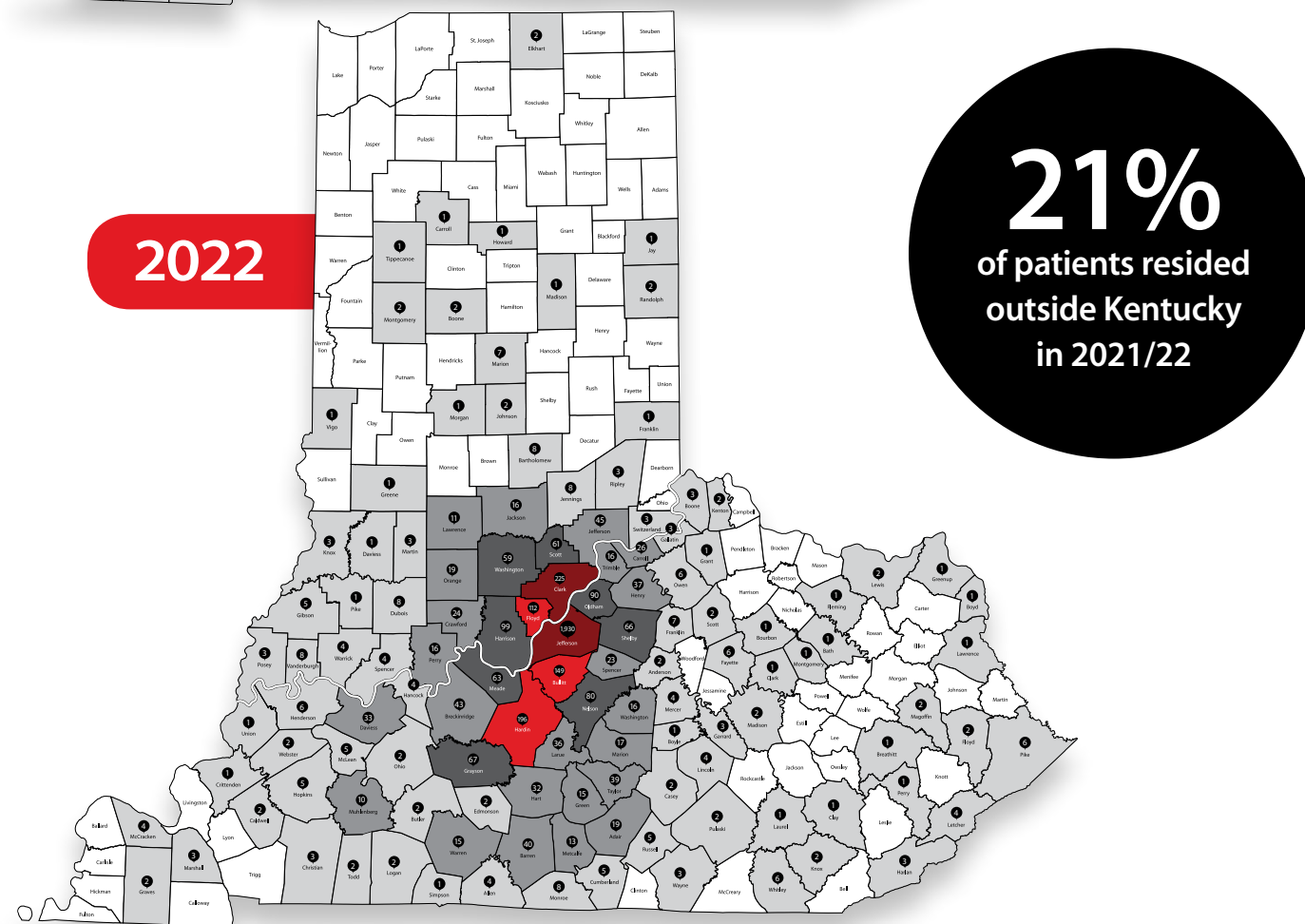
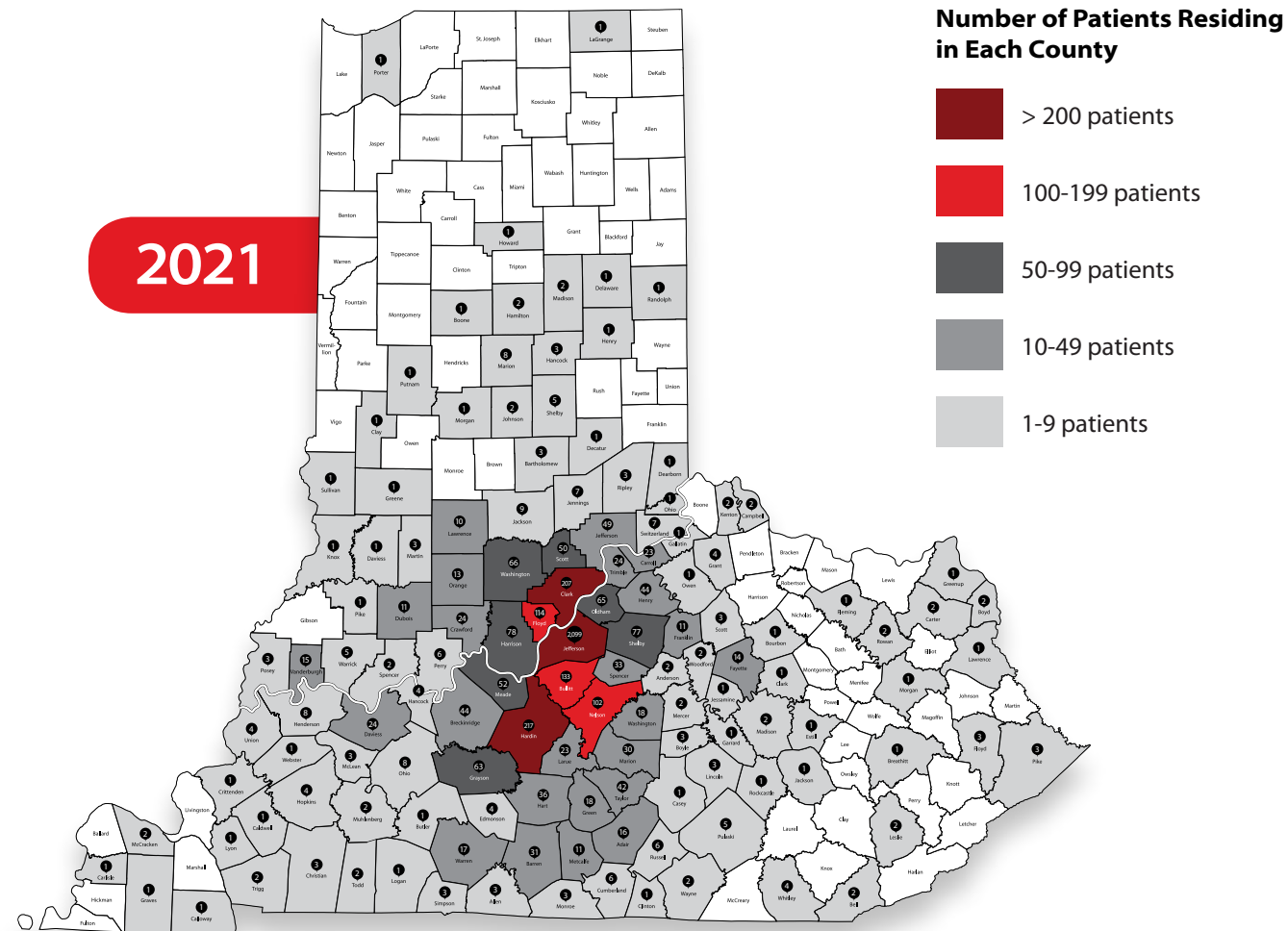
Patient Area of Residence	2021/22 Number of Patients
Residing in Jefferson County (Louisville)	2,099/1,930 (4,029)
Residing outside Jefferson County (Louisville)	2,165/2,217 (4,382)
Total	4,264/4,147 (8,411)

8,411
patients treated
in 2021/22

- Residing in Jefferson County (Louisville)
- Residing outside of Jefferson County (Louisville)



52%
of patients resided
outside Jefferson
County (Louisville)
in 2021/22



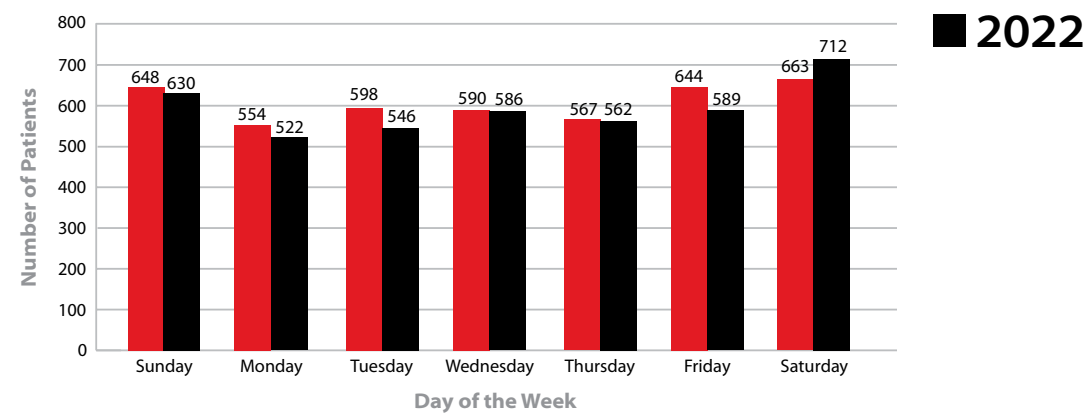
21%
of patients resided
outside Kentucky
in 2021/22

Trauma Volume Data

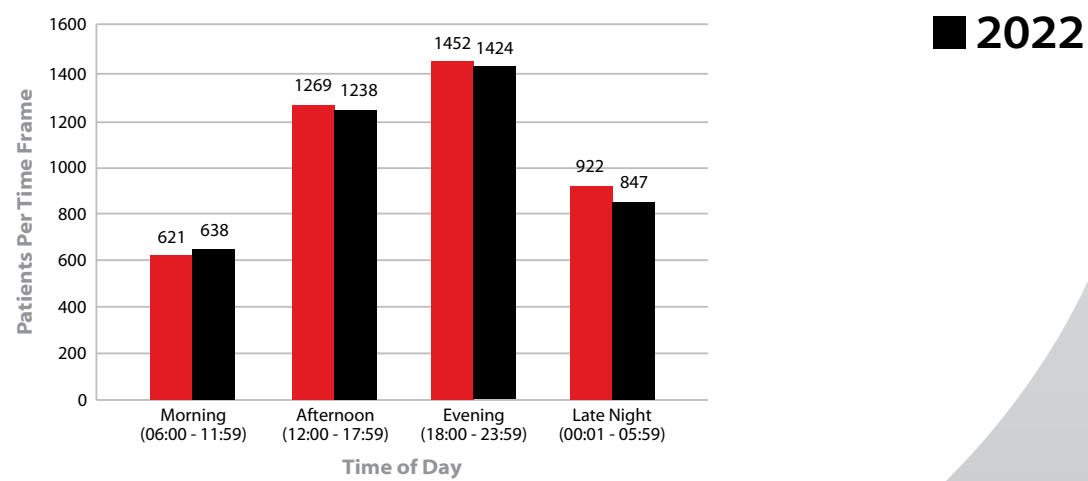
Trauma Volume Per Year



Trauma Volume Per Day

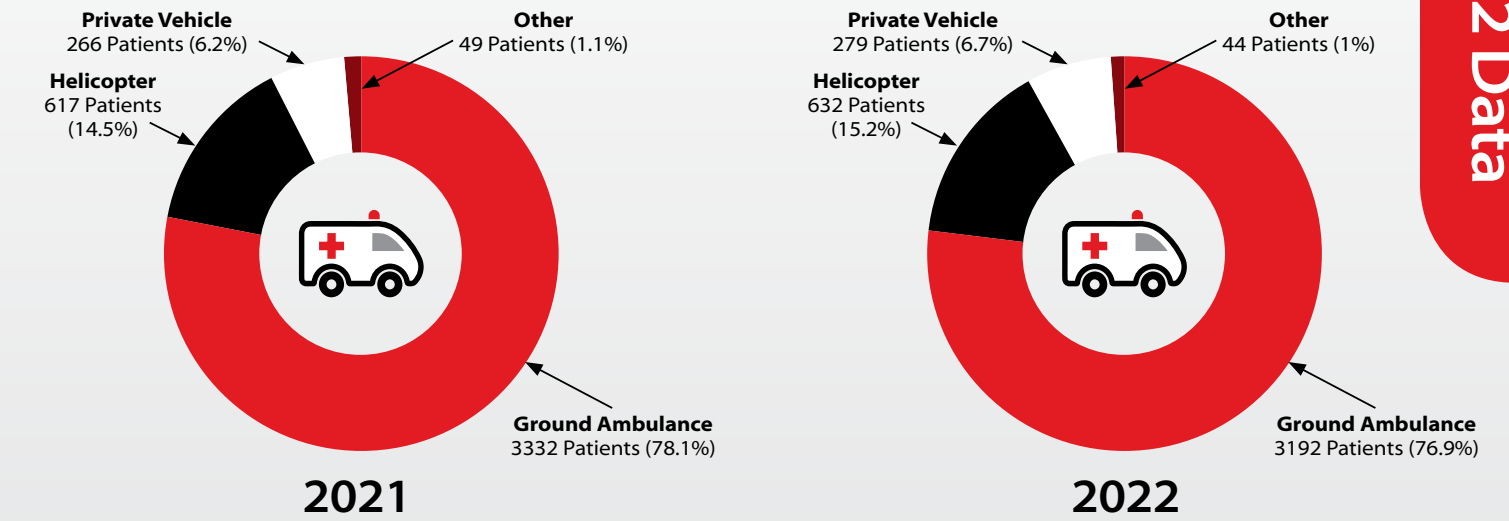


Trauma Volume Per Time Frame

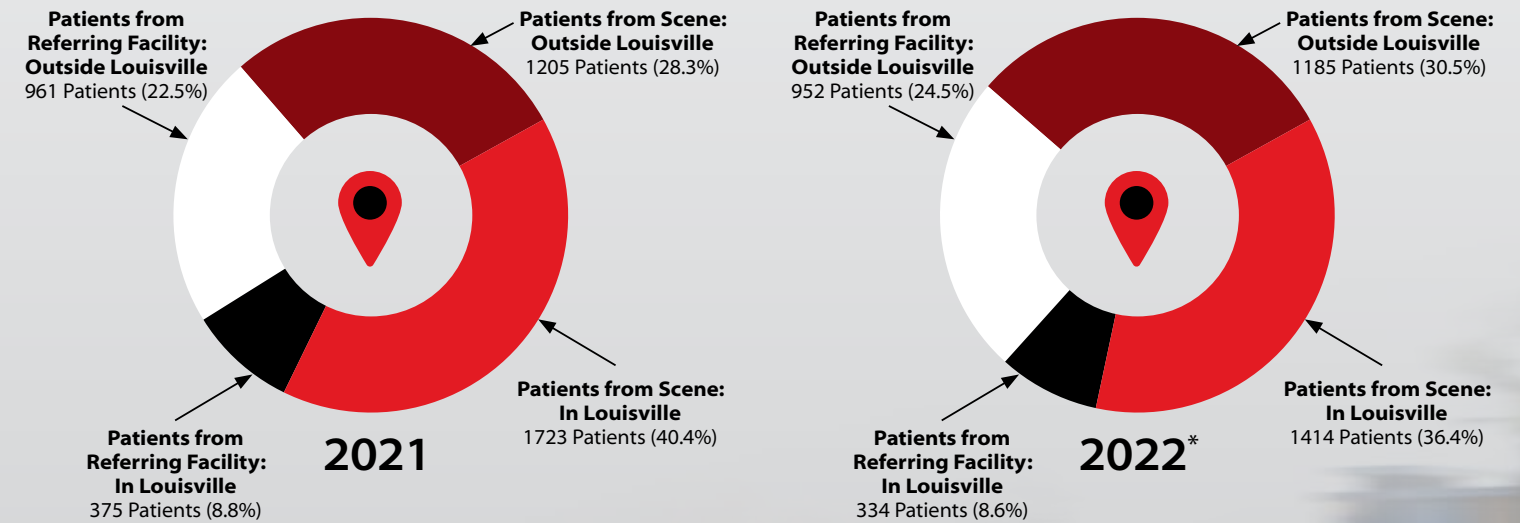


Patient Transport Data

Method of Patient Transportation



Patient Location When Transported



77%
of patients were transported by ground ambulance

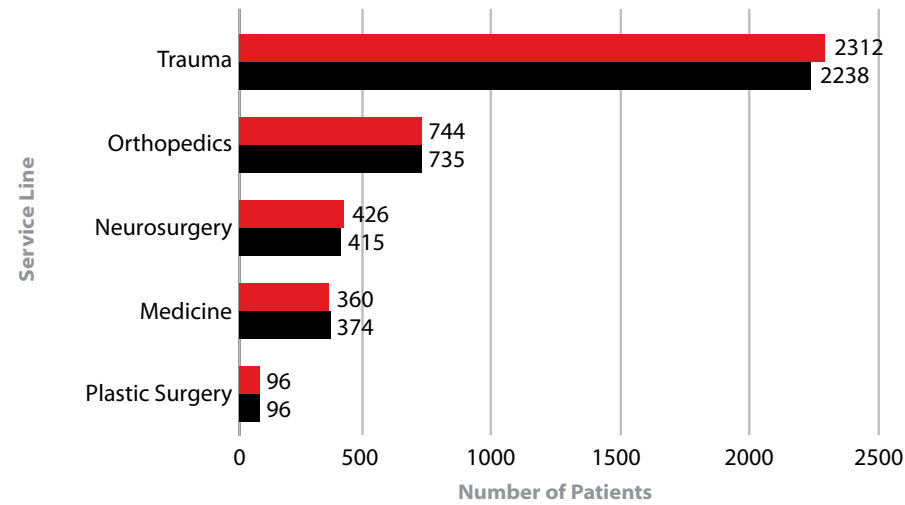
32%
of patients were transferred from a referring facility

*Excludes patients transported by private vehicle or other non-EMS methods, as well as those transported from location other than 'Scene' or 'Ref'

Trauma Admissions Data

■ 2021
■ 2022

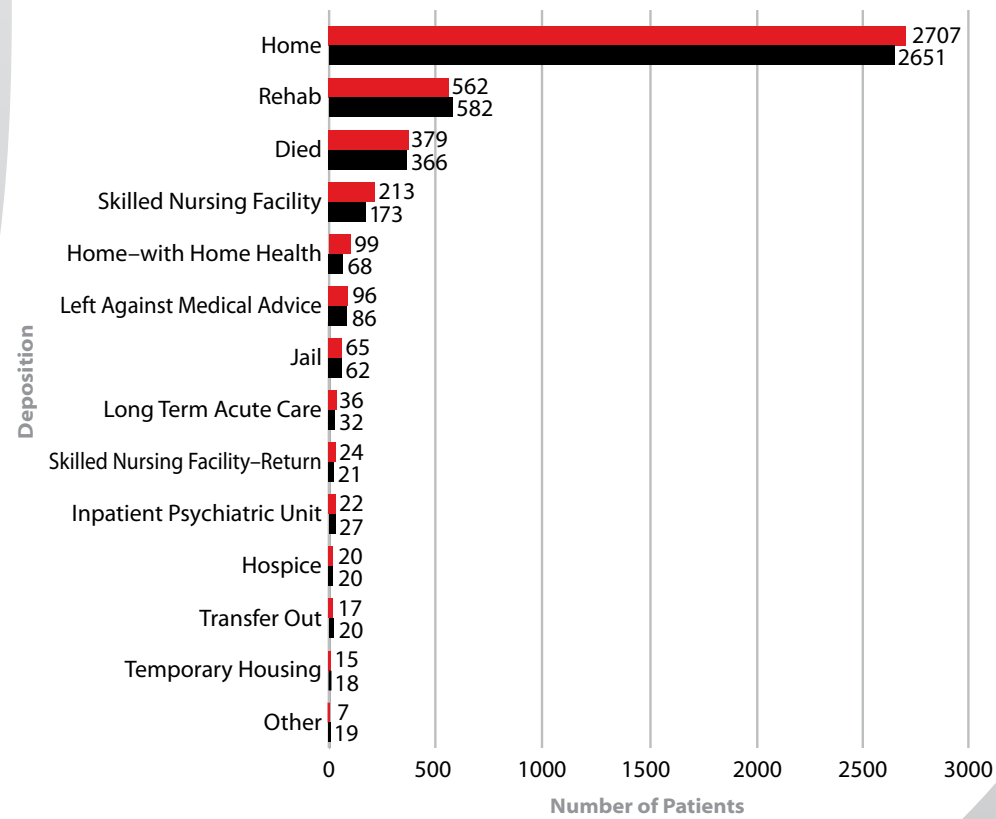
Top Five Admitting Service Lines



Patient Discharge Data

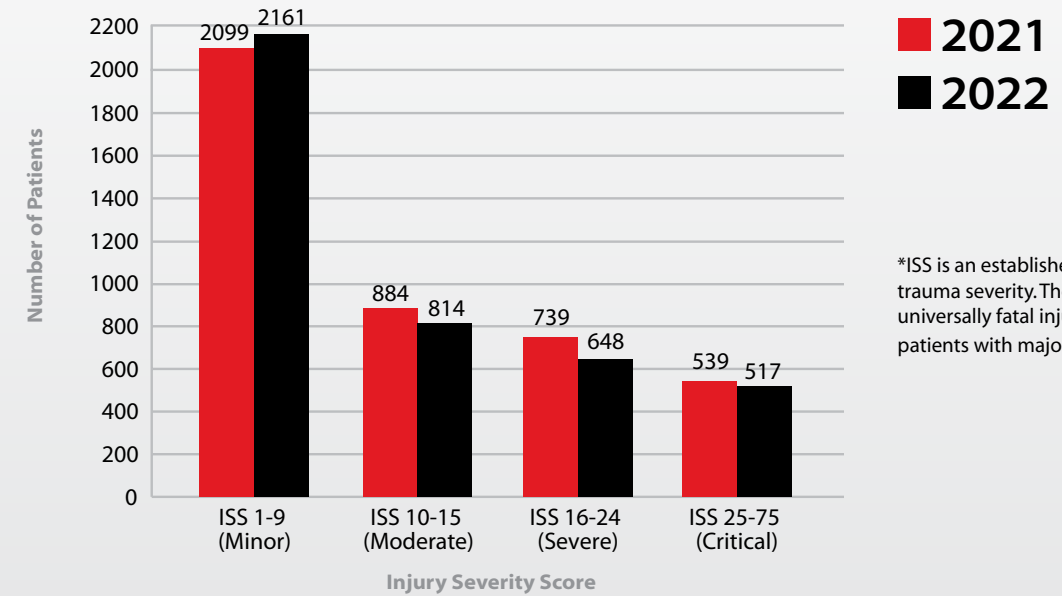
■ 2021
■ 2022

Discharge Disposition



Patient Injury Severity Data

Injury Severity Score (ISS)*

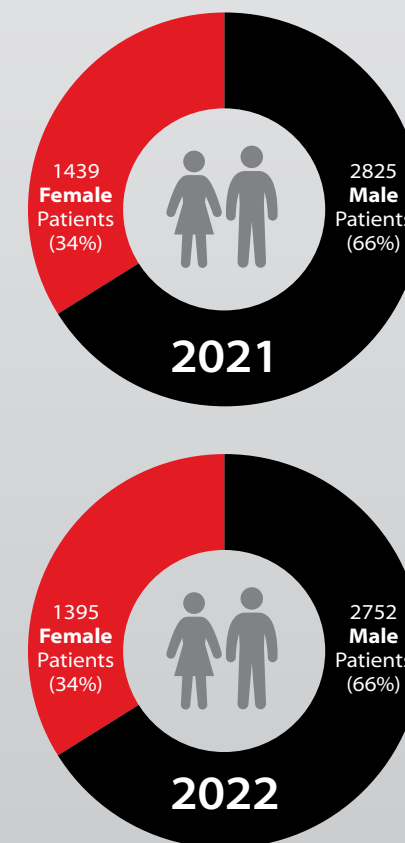


■ 2021
■ 2022

*ISS is an established trauma/injury score assessing trauma severity. The ISS range is 1-75, with 75 being a universally fatal injury. An ISS greater than 15 designates patients with major trauma or polytrauma.

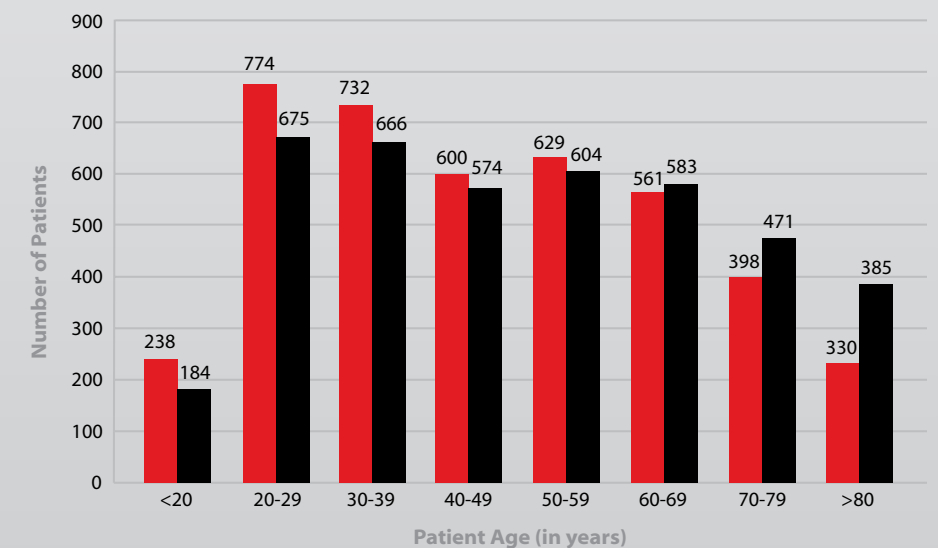
Patient Demographic Data

Admissions by Gender



Admissions by Age Range*

■ 2021
■ 2022



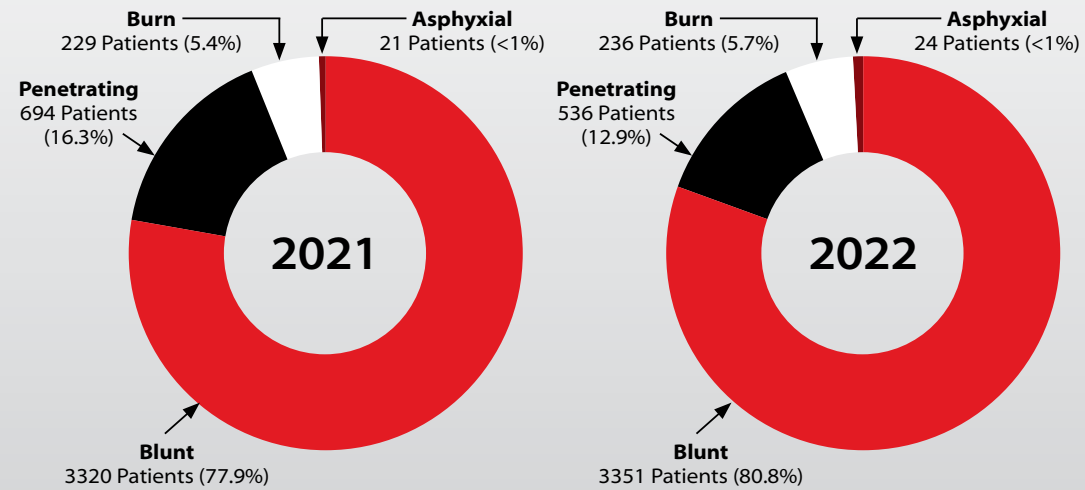
*Excludes seven patients of unknown age

13%
of patients had a critical ISS score

66%
of patients were male

Causes of Injury Data

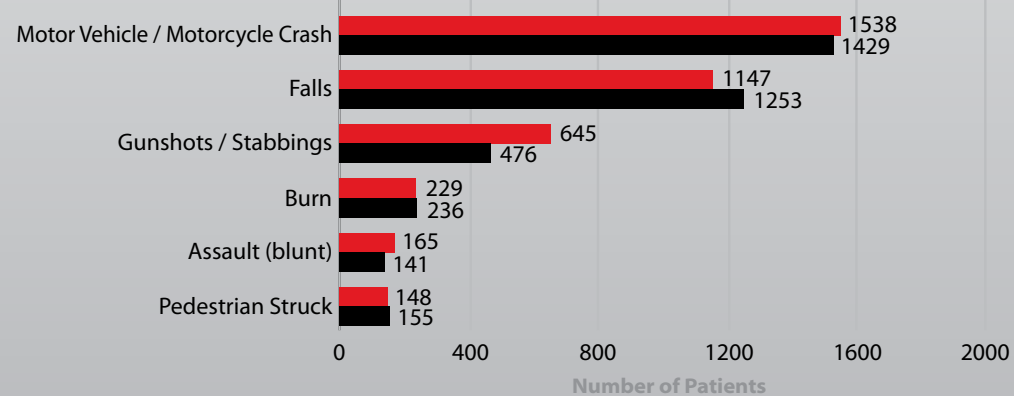
Traumatic Injury Types



78-81% of patient injuries were categorized as blunt trauma

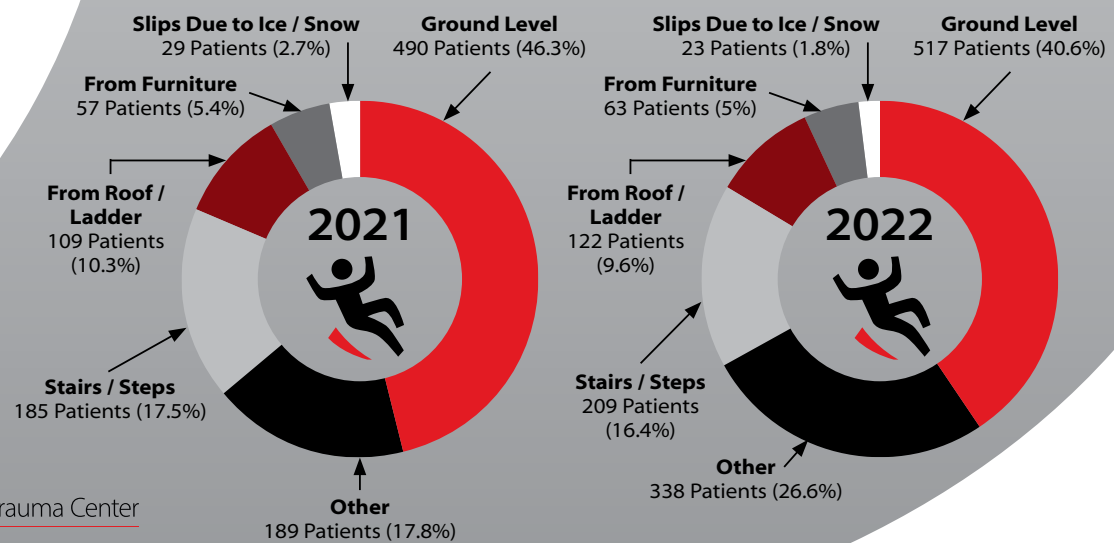
2,967 patients had injuries due to a motor vehicle / motorcycle crash

Leading Causes of Injury

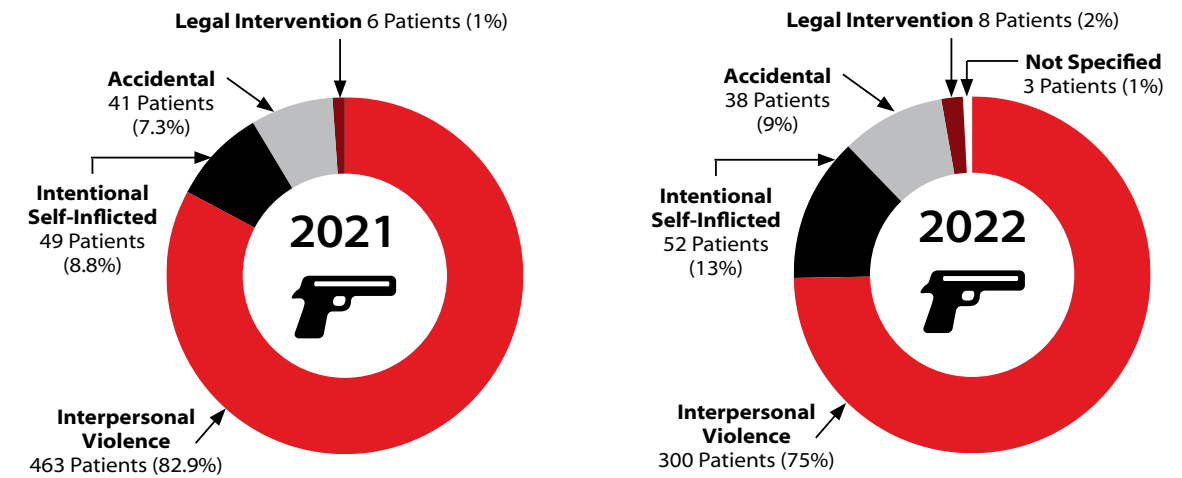


Causes of Injury - Detail

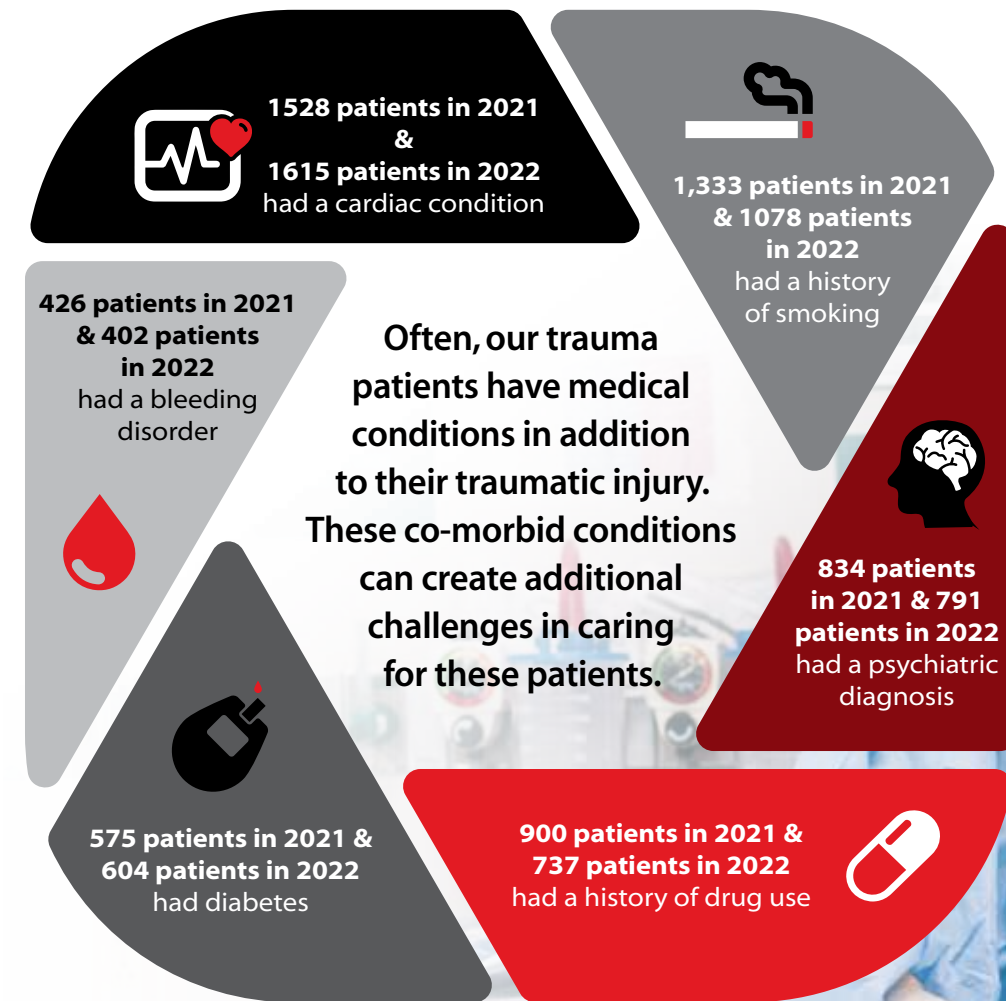
Causes of Fall Injuries



Causes of Gunshot Injuries



Trauma 2021/22 Patients with Co-Morbid Conditions



Top Referring Facilities

We would like to recognize that a large number of our trauma patients come to us from referring facilities. We are honored that our referring facilities recognize our ability to treat the most sensitive patient cases. Every referral serves as a powerful reminder of our intense responsibility to provide the best care we possibly can.

Number of Trauma Patients Referred by Facility*

	2021/22	
Ascension St. Vincent Salem	17	16
Baptist Health Floyd	31	33
Baptist Health Hardin	184	205
Baptist Health La Grange	24	30
Baptist Health Louisville	23	24
Breckenridge Memorial Hospital	13	11
Carroll County Memorial Hospital	20	25
Clark Memorial Health	45	32
Deaconess Gibson Hospital	21	18
Flaget Memorial Hospital	53	62
Harrison County Hospital	35	32
King's Daughters' Health (Indiana)	59	38
Mt. Washington Fire and EMS	10	20
Norton Audubon Hospital	82	67
Norton Brownsboro Hospital	54	57

	2021/22	
Norton Hospital	31	26
Norton Women's and Children's Hospital	26	17
Owensboro Health Regional Hospital	33	42
Robley Rex VA Medical Center	26	38
Scott Memorial Health	19	21
Spring View Hospital	23	17
T.J. Samson Community Hospital	60	64
Taylor Regional Hospital	47	34
Twin Lakes Regional Medical Center	34	40
UofL Health - Jewish Hospital	33	29
UofL Health - Mary & Elizabeth Hospital	60	63
UofL Health - Medical Center East	22	17
UofL Health - Medical Center South	42	43
UofL Health - Medical Center Southwest	20	16
UofL Health - Shelbyville Hospital	34	20

*Facilities with 20+ patients referred

Top Emergency Medical Services (EMS) Transports

A high volume of patients come to us through many different EMS services. When disaster strikes, we stand at the ready to receive patients and provide the care they need when the worst-case scenario becomes reality.

Number of Trauma Patients Transported by EMS*

	2021/22	
Air Evac Lifeteam	186	191
Air Methods	381	337
American Medical Response	219	180
Anchorage Middletown Fire & EMS	122	122
Baptist Health EMS	28	43
Barren-Metcalf County EMS	41	39
Buechel Fire - EMS	78	40
Bullitt County EMS	142	148
Campbellsville - Taylor County EMS	8	22
Carroll County EMS	20	21
Fern Creek Fire & EMS	61	80
Grayson County EMS	20	25
Hardin County EMS	161	154
Harrison County Hospital EMS	82	73
Henry County EMS	12	12
Highview Fire District	39	34
Jeffersontown Fire Dept.	48	44
King's Daughters' Health EMS	38	20

	2021/22	
Louisville Metro EMS	958	781
Marion County EMS	17	11
Meade County EMS	20	17
Mt. Washington Fire & EMS	10	20
Nelson County EMS	71	76
New Chapel EMS	242	264
Norton Health Ambulance	158	156
Okolona Fire Protection District	132	152
Oldham County EMS	69	65
PHI Air Medical (Indiana)	5	50
Pleasure Ridge Park Fire and Rescue	174	204
Statflight	26	37
Scott County EMS	26	47
Shelby County EMS	55	60
Spencer County EMS	21	13
St Matthew's Fire & Rescue	89	110
Washington Cty Ambulance Service (IN)	11	11

*EMS with 20+ patients transported

32%
of trauma patients
were transferred to
UofL Hospital from
other facilities

92%
of trauma patients
were brought to
UofL Hospital by
EMS agencies

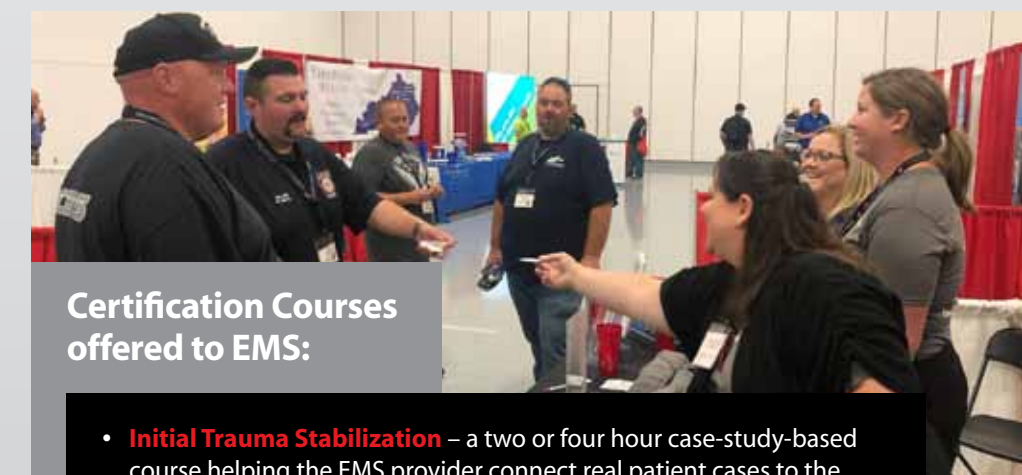
Thank you
for entrusting us with your patients' care.



UofL Health and EMS: One Mission, One Team

UofL Health – UofL Hospital is committed to the ongoing support of our EMS partners including educational opportunities, communications and events. Throughout the year, we participate in various events and efforts including National EMS Week and KAPA's annual Kentucky EMS Conference and Expo.

The UofL Health - UofL Hospital newsletter created specifically for our EMS partners, *EMS Insider*, continues to resonate with readers by providing resources, information, and more that prove relevant to the EMS teams. Additionally, our recently launched Facebook group (UofL Health and EMS: One Mission, One Team) enjoys strong engagement by serving as both a timely vehicle for communication, as well as providing an opportunity for two-way interaction and feedback.



Certification Courses offered to EMS:

- **Initial Trauma Stabilization** – a two or four hour case-study-based course helping the EMS provider connect real patient cases to the trauma stabilization process. Offers continuing education credits.
- **Burn Care Course** – one, two or four hour course covering initial stabilization, transfer criteria and burn types. Case discussion are infused throughout to provide practical knowledge to the student. Continuing education credits offered.
- **Advance Burn Life Support (ABLS) & Rural Trauma Team Development Course (RTTDC®)** – two national certification courses that are offered to EMS.

We are grateful for the lifesaving care you provide.

Education and Outreach Highlights

Trauma Courses and Symposiums

Throughout the past two years, the Trauma Institute continued to provide the Advanced Trauma Life Support (ATLS) course for both our providers as well as providers in the larger Kentucky trauma system. We are proud to note that our ATLS program created thirteen new instructors and two new directors. In 2021 we hosted two refresher courses with one traditional course, and in 2022 our ATLS program hosted three refresher courses with three traditional courses. We are thrilled to note that in January of 2022, the Trauma Institute held Kentucky's first ever Advanced Trauma Care for Nurses (ATCN) concurrently with the provider ATLS course. ATCN is a national certification course created by the Society of Trauma Nurses over 25 years ago, designed to increase nurses' knowledge in the management of poly trauma patients. Our ATCN program continues to expand from its adoption, creating a course coordinator and eight instructors. Providing ATLS and ATCN education is incredibly beneficial as we continue to foster and build relationships with health providers in the state and region.

Each summer, the chief resident and fellows participate in the exciting Advanced Surgical Skills for Exposure in Trauma (ASSET) course. ASSET is held in the cadaver lab at the University of Louisville School of Medicine.

This past year we also offered the Trauma Nursing Core Course (TNCC) for our nursing staff. We offered nine courses where 120 nurses were trained in 2021, and seven TNCC courses where 70 nurses were trained in 2022. The TNCC program also created seven new instructors over the last year. Looking ahead to 2023, the Trauma Institute is excited to implement the ninth edition of the course for new nurses.

Through September and November of 2021, the Trauma Institute provided education on a statewide platform in collaboration with Pikeville Medical Center and Owensboro Health Regional Hospital. At both locations, burn care and a Rural Trauma Team Development Course (RTTDC) was held for local hospital and EMS staff, improving patient outcomes and learning opportunities.

Lastly, in October 2022 UofL Hospital was the proud host of the Kentucky Statewide Trauma and Emergency Medicine Symposium. The event was held at the Seelbach Hotel and included speakers from all throughout the state in various specialties and levels of care.



190
Nurses attended
TNCC in 2021/22



Tracie Burchett, MSN
Trauma Outreach and
Education Coordinator

If you are interested in participating in future education and outreach classes or events, please email Tracie.Burchett@UofLHealth.org.

Pediatric Readiness

On August 30, 2022, several members of our team were recognized for their efforts in establishing our pediatric readiness program to comply with national standards. In many cases, our youngest patients have specific characteristics which require more specialized care. Thanks to the efforts of our team members, we are continuing our education and updating areas like disaster preparedness, process improvement initiatives, quality care and more.

This education was provided in collaboration with the National Pediatric Readiness Project (NPRP) and is led by the EMSC Program in partnership with the American Academy of Pediatrics, the American College of Emergency Physicians, and the Emergency Nurses Association. Our combined efforts continue to ensure that our emergency department is "pediatric ready."

(Right) Emergency Department Leadership team from the day of the site visit.

80%
of children receive
emergency care in
general EDs



(Above) Christina Turpen, Beth Cottrell and Erin Reibel presenting their poster titled, "Are you ready? Journey to Pediatric Readiness at an Adult Level I Trauma Center" at the National Trauma Quality Improvement Program Conference in Phoenix, Ariz. (Dec. 2022).



Stop the Bleed

Uncontrolled bleeding is a major cause of preventable death after a traumatic injury. We offer **Stop the Bleed** education, a resource to the community. In one hour of instruction, you can learn how to stop or slow-down life-threatening bleeding. This course, created by the American College of Surgeons and adopted by UofL Hospital, is appropriate for most ages, applicable to community and professional settings.



Stop the Bleed classes were taught to local community groups across the region, including social justice groups (above left) and at Volunteers of America's West Fest (above right).



- 2021/22 Highlights:**
- 33 classes
 - 9 tabling events
 - 292 high school students at the Arvin Education Center in Oldham County
 - 140 Jefferson County Public Schools (JCPS) school nurses

795
participated in
Stop the Bleed
classes in
2021/22



Future Healers Program

Firearm injury is now the leading cause of death in children and adolescents in the United States. In Louisville, the morbidity and mortality is substantial, with twice as many years of potential life lost to firearm violence as to COVID-19 during the height of the pandemic. Firearm injury continues to be a staggering public health threat that disproportionately impacts younger patients. In 2020 in the United States, **firearms accounted for 64% of children/adolescent homicides and 79% of all homicides.**

In 2021, the Future Healers program was launched by partners Christopher 2X Game Changers, University of Louisville School of Medicine, and the UofL Health – UofL Hospital – Trauma Institute in response to the escalating gun violence in Louisville in our youngest patients. The program addresses interpersonal firearm injury by acknowledging and addressing the multiple root cause contributors to injury during this critical period of neurocognitive development.

86% of children and 96% of caregivers in Future Healers have experienced firearm violence.

An alarming one in three of our young participants (aged 4-13) have lost a peer to gun violence.

Future Healers introduces youth to health and safety concepts while helping them navigate through the emotional trauma that stems from the increasing violence plaguing their communities. Through compassion, empowerment, mentorship and advocacy, this program uplifts our city's young individuals to aspire for better futures for themselves and for the communities in which they reside.

Targeted investment of time and resources in children impacted by firearm violence is operationalized in the Future Healers program through an emphasis on general health and well-being. The program introduces youth to health and safety concepts while helping them navigate through the emotional trauma that stems from the increasing violence plaguing their communities. Medical students provide a curriculum session once per month, covering a wide variety of relevant topics for youth to support positive development, mental health and physical health. Through compassion, empowerment, mentorship and advocacy, Future Healers uplifts our city's young individuals to aspire for better futures for themselves and the communities in which they reside.

In its first year, **the Future Healers program produced 11 educational sessions that served 98 youth. In 2022, the program continued its 11 educational sessions and served 83 participants.** In 2022 it also expanded, adding new mentorship programming and field trips to provide a deeper connection for youth to engage with the medical students and other role models.



Injury Prevention Highlights

Hospital-Based Violence Intervention Program (HVIP)

Through our hospital-based violence intervention program (HVIP), we provide trauma-informed care, social services and safety planning to victims of violence. Our community health workers respond inside the emergency room to provide these services immediately upon arrival to the hospital. Our HVIP is a critical part of Louisville's Pivot to Peace Intervention Network, a community network dedicated to reducing violence in Louisville. Pivot to Peace is convened by the Office for Safe and Healthy Neighborhoods (OSHN). OSHN is Louisville Metro Government's backbone for violence prevention and intervention, with outreach, programs and services that address the root causes of violence and build sustainable solutions. Working with Pivot to Peace partners across the city, our patients can receive resources for social determinants of health needs and safety.

In 2022, our HVIP team developed a critical incident response protocol to provide a pathway for UofL Hospital to respond quickly and incorporate a community-based response to violence. Leaders from across the UofL Health system collaborated with OSHN and community partners so that when events occur, there is a coordinated effort to facilitate members of the affected community to respond immediately to the hospital and provide extra family and patient support and faster access to critical resources.

763
patients were treated for gunshot injuries due to interpersonal violence in 2021/22

79%
of all gunshots treated at UofL Hospital in 2021/22 were the result of interpersonal violence

Kelsey Small Award

The Kelsie Small Future Healer Award is presented in memory and honor of Kelsie Small, a graduate of Central High School and nursing student at Northern Kentucky University, who was shot and killed in 2020. Every year, we present this award to a medical professional within UofL Health who exudes the characteristics that defined Kelsie's life: excellence, caring, compassion and a commitment to education.

Throughout Kim's 20-plus years with UofL Health, she has helped hundreds of families to get the care and resources they need during the most challenging times of their lives. Her compassion, skill and dedication to service are exemplified every single day in all that she does. It is this exact example that defines the kind of nurse Kelsie Small wanted to be, and so it was our honor to present these awards in Kelsie's memory.



2022 RECIPIENT:
Kim Wilson, RN
Nurse and Director of Critical Care Services, UofL Health

(pictured above L to R:
Art Love - Kelsey's step-father,
Kim Wilson, Christopher 2X,
Delisa Love - Kelsey's mother,
Keith Miller, M.D.)

300%

approximate increase from 2021 to 2022 in the rate of long-term supports such as counseling, housing and case management services for patients seen by Community Health Workers



2021 RECIPIENTS:
Keith Miller, M.D.
Assistant Trauma Medical Director, UofL Hospital – J. David Richardson Trauma Center Associate Professor, UofL School of Medicine
Karen Udoh
Student, UofL School of Medicine

(pictured above L to R:
Karen Udoh,
Keith Miller, M.D.,
Christopher 2X,
Delisa Love - Kelsey's mother)



Our best girl Roo, after a long day of providing care and support to trauma victims and hospital workers alike.

Patient and Family Resources

Trauma Facility Dog

Back in 2020, our social work team acquired a rescue dog, identified through Duffy's Dog Training in Jeffersonville, Ind., to be trained as a facility therapy dog. The dog chosen was named Roo, an energetic and loving boxer-lab mix. Throughout 2021 and 2022, our social work team continued to spread the unconditional love of Roo throughout the hospital. Roo is the first trauma facility dog in our program's history, and received extensive therapy training which included the Public Access Test as well as the Canine Good Citizen Test. Jenny Youngberg, MSSW, CSW, serves as Roo's handler. Roo accompanies Jenny while she rounds on patients in her regular job duties, and additionally supports specific facility dog interventions when providers request it.



Roo provided a welcome break to our team at the UofL Health Covid Operations site.



Roo received the biggest hug from a Future Healers participant.

"Roo has been a beacon of light for patients, their families and our staff. The best part about a dog is that they offer unconditional love without any judgment."

- Jenny Youngberg, MSSW, CSW

Our trauma social work team.



Art Therapy

Our Art Therapy Program is led through the efforts of Amy Mattingly, M.Ed, LPATA, and Lindsey Journey, MSW, LCSW, as their clinical supervisor. The Art Therapy Program utilizes a variety of psychotherapeutic modalities which allow patients to express themselves and what they're feeling or experiencing. This allows for healing and processing of personal trauma, loss, grief, mental health conditions and much more.



Amy Mattingly receiving her graduation award.



Art therapy student graduation ceremony.

.....
Art created by trauma patients during their hospitalization.



9W Trauma ICU mural painted by art students.



Art piece titled "Solitude"



Art piece titled "Thoughts"

Trauma Support Groups

As many trauma survivors would explain, surviving a traumatic event is only half the battle. In many cases, part of the healing process means coming to terms with the event, as well as adjusting to life after the fact. For many of our patients, one of the best ways to process their respective events is through open conversation in our Trauma Support Group, a meeting that happens regularly each month.

These meetings give trauma survivors an opportunity to vocalize and express their feelings, mental state and share stories in the company of others undergoing similar experiences of their own. This provides a sense of camaraderie and community, both of

which are necessary throughout the healing and recovery process.

Trauma Support Group is led by our wonderful team of social workers, who give of their own time after work hours to allow this community an opportunity to come together. In instances where meeting in person was not an option (due to the pandemic, inclement weather, or other unforeseen circumstances), the Trauma Support Group was able to meet over a video call, enabling the group to gather remotely. When it comes to comprehensive care, the discussions held in the Trauma Support Group are a necessary step for many to continue to heal as much as possible.



Trauma survivors supporting one another.

Louisville's
**ONLY
LEVEL 1**
Trauma Center and
Adult Burn Unit

100 Year Committee on Trauma Celebration

UofL Hospital joined with patients, Governor Beshear, and other trauma centers from across the state to recognize National Trauma Survivors Day and the 100th anniversary of the American College of Surgeons Committee on Trauma.

UofL Hospital traces its trauma roots back to 1911, to the ambulance service created for the former General Hospital. Best practices from Louisville, and throughout the state, laid the foundation for the establishment of the American College of Surgeons Committee on Fractures in 1922 that evolved into the Committee on Trauma.

"I'm excited to take part in recognizing the 100th anniversary of the American College of Surgeons Committee on Trauma and its significant contributions to preventing injury and saving lives in Kentucky, the United States and around the globe," said Gov. Andy Beshear. "It's fitting that the milestone of a century has been reached during National Trauma Awareness Month. We are so grateful for the invaluable work that has been accomplished and will continue to be accomplished over the years to come."

Today, Kentucky's trauma network includes twenty trauma centers ranging from Level IV to Level I. Collectively the network provides a lifeline to about 14,000 Kentuckians a year, according to the Kentucky's 2020 State Trauma Registry. UofL Hospital is one of only two Level I adult trauma centers in the state.



Governor Andy Beshear and Mayor Greg Fisher greeting trauma survivors.



Governor Andy Beshear and Mayor Greg Fisher honoring survivor, Valentina Boyd.



"We are so grateful for the invaluable work that has been accomplished and will be accomplished over the years to come"

- Gov. Andy Beshear

UofL Hospital
J. David Richardson Trauma Center
UofL Health

Research Highlight

UofL Health continued to contribute to the great pool of medical knowledge shared the world over. Many of our attending physicians, resident physicians and nurse practitioners contributed to clinical studies and research papers that were published in several medical fields. It is through this continued research and education that our organization grows and maintains its status as one of the top healthcare providers in the region. Many of our published works are included here, and you can learn more about these works at our website.

Trauma-Related Published Articles in 2021/22

TRAUMA:

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- Hrebinko, K. A., Sperry, J. L., Guyette, F. X., Brown, J. B., Daley, B. J., Miller, R. S., Harbrecht, B. G., Claridge, J. A., Phelan, H. A., Neal, M. D., Zuckerbraun, B. S., Yazer, M. H., & Nicholson, K. J. (2021). Evaluating the Cost-effectiveness of Prehospital Plasma Transfusion in Unstable Trauma Patients: A Secondary Analysis of the PAMPer Trial. *JAMA Surg*, 156(12), 1131-1139. <https://doi.org/10.1001/jamasurg.2021.4529>
- Ladhani, H. A., Ho, V. P., Charbonnet, C. C., Sperry, J. L., Guyette, F. X., Brown, J. B., Daley, B. J., Miller, R. S., Harbrecht, B. G., Phelan, H. A., & Claridge, J. A. (2021). Dose-dependent association between blood transfusion and nosocomial infections in trauma patients: A secondary analysis of patients from the PAMPer trial. *J Trauma Acute Care Surg*, 91(2), 272-278. <https://doi.org/10.1097/ta.0000000000003251>
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- Schuch, J. E., Matheson, P. J., Harbrecht, B. G., Bond, L., Ashkettle, G. R., & Smith, J. W. (2021). Plasma resuscitation with adjunctive peritoneal resuscitation reduces ischemia-induced intestinal barrier breakdown following hemorrhagic shock. *J Trauma Acute Care Surg*, 90(1), 27-34. <https://doi.org/10.1097/ta.0000000000002916>
- Wu, J., Vodovotz, Y., Abdelhamid, S., Guyette, F. X., Yaffe, M. B., Gruen, D. S., Cyr, A., Okonkwo, D. O., Kar, U. K., Krishnamoorthi, N., Voinchet, R. G., Billiar, T. R., Yazer, M. H., Namas, R. A., Daley, B. J., Miller, R. S., Harbrecht, B. G., Claridge, J. A., Phelan, H. A., ... Billiar, T. R. (2021). Multi-omic analysis in injured humans: Patterns align with outcomes and treatment responses. *Cell Rep Med*, 2(12), 100478
- Bodily, N. E., Bruenderman, E. H., Bhutiani, N., The, S., Schuch, J. E., & Bozeman, M. C. (2021). The Effect of Transfer on Outcomes in Burns. *J Burn Care Res*, 42(5), 841-846. <https://doi.org/10.1093/jbcr/irab092>
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ORTHO:

- Langman, L. J., Gaskins, J., Korte, E., Maluf, C., Wooderchak-Donahue, W. L., McMillin, G. A., Jannetto, P. J., Hartley, B., Malkani, A., Yakkanti, M., & Jortani, S. A. (2021). Endogenous and iatrogenic sources of variability in response to opioid therapy in Post-Surgical and injured orthopedic patients. *Clin Chim Acta*, 522, 105-113. <https://doi.org/10.1016/j.cca.2021.08.004>
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- Carlson, J. B., Zou, J., & Hartley, B. (2022). Placement of LC-II and trans-sacral screws using a robotic arm in a simulated bone model in the supine position - a feasibility study. *J Exp Orthop*, 9(1), 36. <https://doi.org/10.1186/s40634-022-00476-w>

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- Wright, J. M., Gerges, C., Shammassian, B., Labak, C. M., Herring, E. Z., Miller, B., Alkhachroum, A., Kottapally, M., Huang Wright, C., Rodgers, R. B., Sedney, C., Ngwenya, L. B., Stippler, M., Sieg, E., Babu, M. A., Hoffer, A., & Hejal, R. (2021). Prone Position Ventilation in Neurologically Ill Patients: A Systematic Review and Proposed Protocol. *Crit Care Med*, 49(3), e269-e278. <https://doi.org/10.1097/ccm.0000000000004820>

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A Letter from the Burn Program Leaders

The mission of the American Burn Association (ABA) is dedicated to improving the lives of those affected by a traumatic burn injury. This mission is achieved through the ABA's core values of integrity, collaboration, innovation and compassion.

Since 1984, UofL Hospital has been serving this population utilizing the same mission and core values as the ABA. The burn program has changed and grown through the years from a five bed burn unit to a 16 bed unit with an expanding burn clinic and burn program to facilitate the verification process. In spite of the patient connection challenges presented by the COVID-19 pandemic through 2021 and 2022, we were still able to continue to grow and provide outreach as well as education opportunities through our emergency medical services agencies and referring hospitals. We are appreciative of these relationships and the care provided to our burn patients prior to assessment at a burn center.

Despite the challenges of the last few years, the burn program continues to experience an increase in burn and complex wound care admissions, treated and released burn and wound cases and burn clinic volumes. The burn program also continues to grow with new positions dedicated to the treatment of burn and complex wound patients. This growth demonstrates an improved readiness of the Burn Clinic, and reinforces our commitment to provide the finest burn care in the region to our patients.

Some of the many highlights from 2021 and 2022 include: multiple abstract and poster presentations, preparing for and sitting through the ABA Burn Verification site review, joining the BCQP data platform, expanding our educational opportunities and ABLIS courses, hosting the annual chili cook off, developing a burn resource and education nurse position and participating in multiple outreach opportunities across the state and through local and regional media outlets.

We will continue our efforts to pursue ABA verification to demonstrate our ongoing dedication to our burn population. Additionally, we will continue to serve as the only burn resource throughout the state to provide support and education to victims of traumatic burns.

Burn Program Team



Michelle Broers, PT, DPT, CWS, FACCWS
Burn Program Manager

As burn program manager, Michelle oversees the burn program operations by coordinating clinical, rehabilitation, telemedicine and prevention activities. She also ensures compliance with American Burn Association Burn Center Verification standards for the Burn Registry and Burn Quality Improvement program.



Haily Smith, RN, BSN, CCRN
Burn Educator and Resource Nurse

As burn educator and resource nurse, Haily provides burn education and outreach throughout both the hospital and the state of Kentucky. She also serves as a resource for the emergency department, burn unit and burn clinic by providing ongoing care for burn patients. Additionally, she leads ongoing education and practice improvement efforts for the nursing staff.



C. John Luttrell, BSN, RN
Burn PI Coordinator

As burn performance improvement (PI) coordinator, John oversees the Performance Improvement Program for rapid problem identification, data-driven analysis, and resolution of issues to ensure high quality of care.



Sarina Zahir
Data Analyst

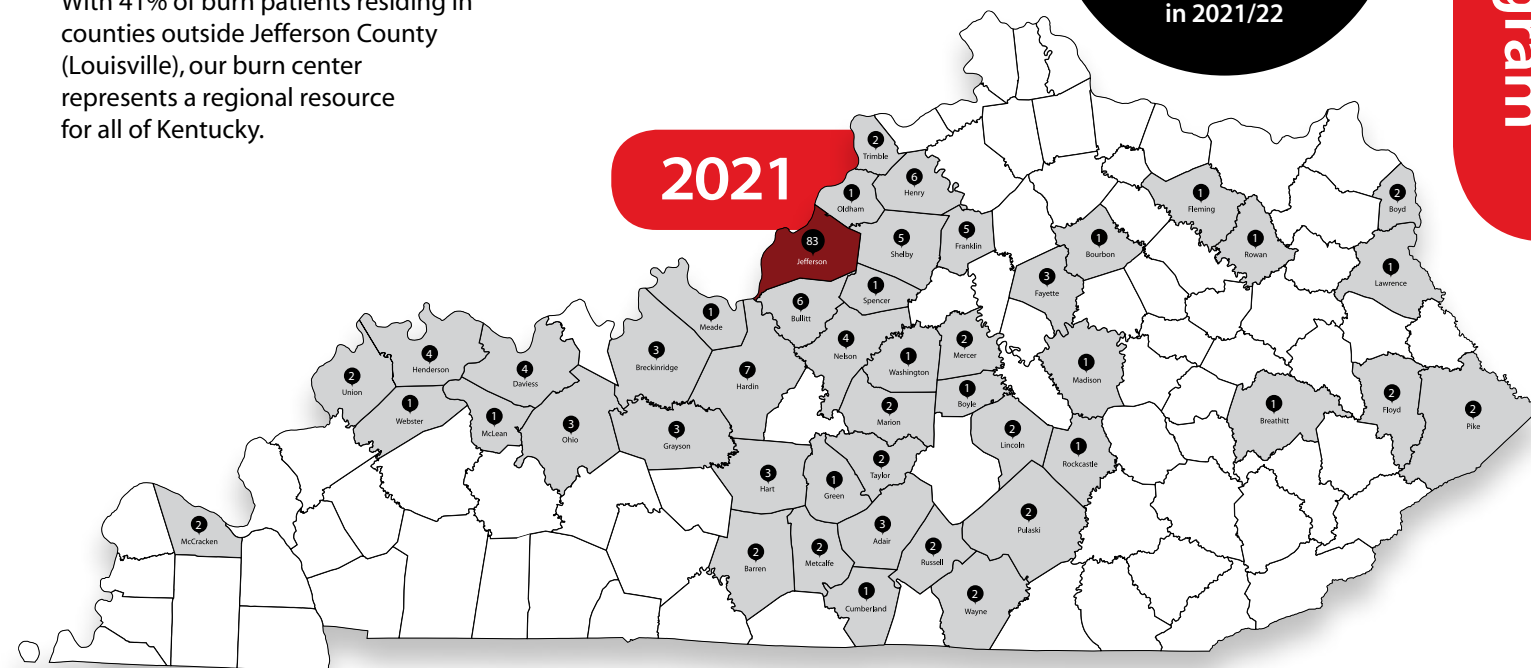
As burn data analyst, Sarina collects data points on admitted burn clinic patients, as well as those treated and released in the emergency department.

Coverage

Burn Center Reach: A Regional Resource

With 41% of burn patients residing in counties outside Jefferson County (Louisville), our burn center represents a regional resource for all of Kentucky.

41%
of burn patients resided outside Jefferson County (Louisville) in 2021/22



Number of Burn Patients Residing in Each County

- > 41 patients
- 31-40 patients
- 21-30 patients
- 11-20 patients
- 1-10 patients

In addition to admitted patients, **607** burn patients were treated and released from the ED in 2021/22

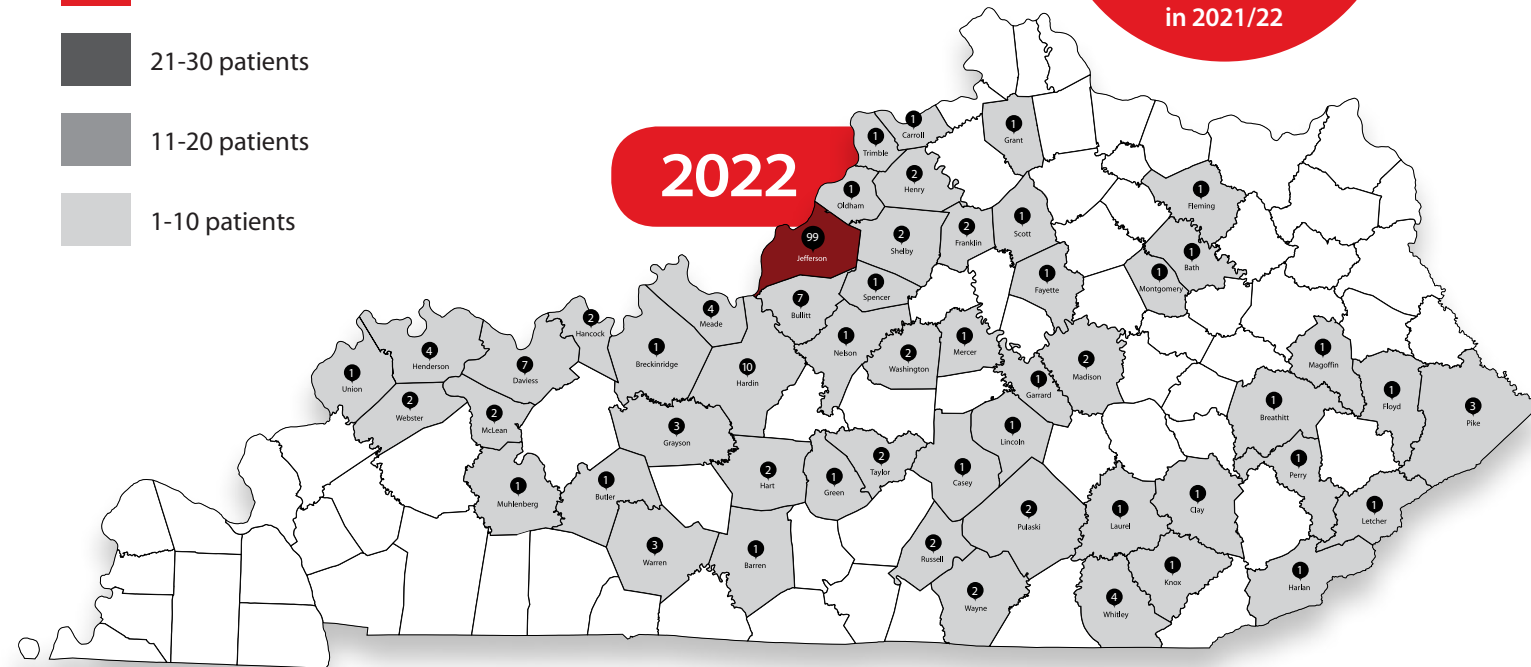




Table display to highlight the burn education and outreach throughout the region that has been conducted.

Burn Center Update

Our team has worked diligently throughout the past several years to prepare to become an American Burn Association verified burn center. The preparations included a compilation of process improvement projects including expansion of burn teleconsultation, infection control initiatives, and partnering with the emergency department and other liaisons to improve communication and education. The review process also included in-depth face-to-face and virtual interviewing with our medical director and burn team, as well as the nursing staff and rehabilitation specialists. In the months prior to the site review, it was all hands-on deck to establish a welcoming environment for our American Burn Association Site Reviewers, Dr. William Hickerson and Dr. David Harrington. We worked with Information Technology, Conference Services, and the Executive Offices. We appreciate the expertise of Chef Ken Barnett who created a Kentucky themed breakfast menu that was enjoyed by the site review team, and all involved in a Q & A session on the second day of the site review.

The benefits of becoming an American Burn Association Verified Burn Center are to allow promotion of regional education and outreach, injury prevention, innovation and research, advocacy, cost containment and evidence-based quality burn care.

According to the ABA, "Burn Center verification provides a true mark of distinction for a burn center and the American Burn Association (ABA) offers this program to verify that a burn center is meeting the highest current standards of care for the burn-injured patient." As we seek to become the only verified burn center in Kentucky, we want the region to look to UofL Hospital as the gold standard for burn care and resources throughout Kentuckiana.



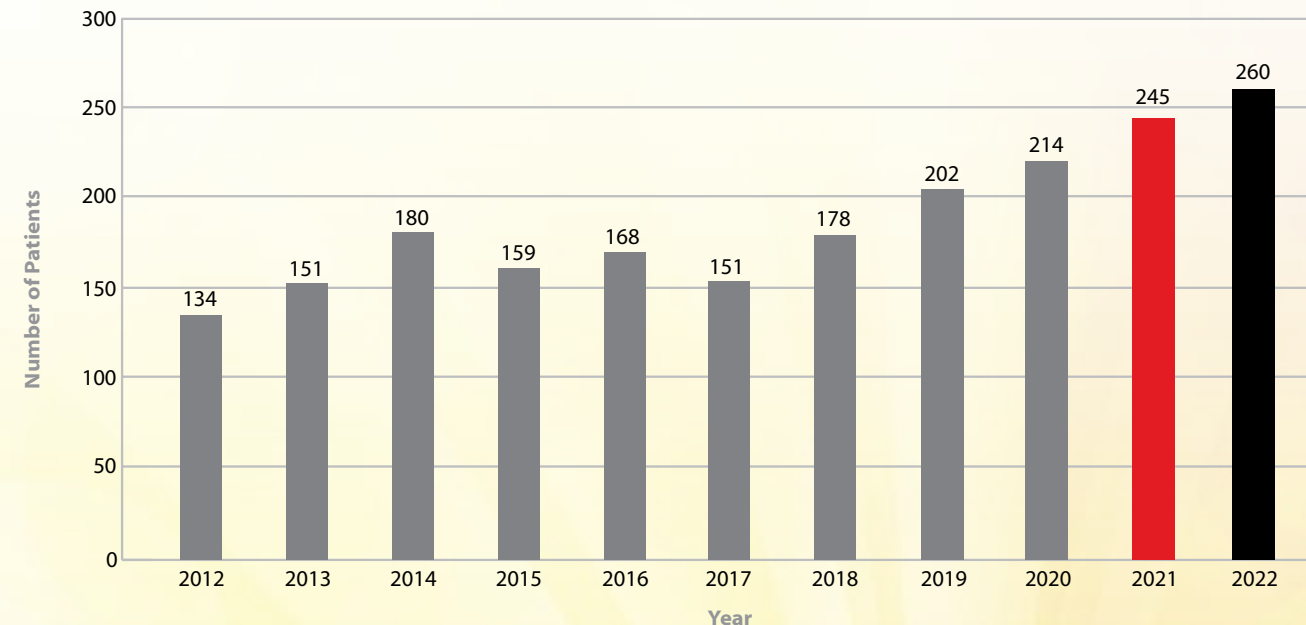
Nursing representation throughout the hospital (OR, ED, burn unit, executive staff, etc.) working together for the virtual nursing interview portion of the verification process.

The initial site review occurred on March 21-22, 2022 whereas our team underwent a rigorous review with members of the ABA verification review board.

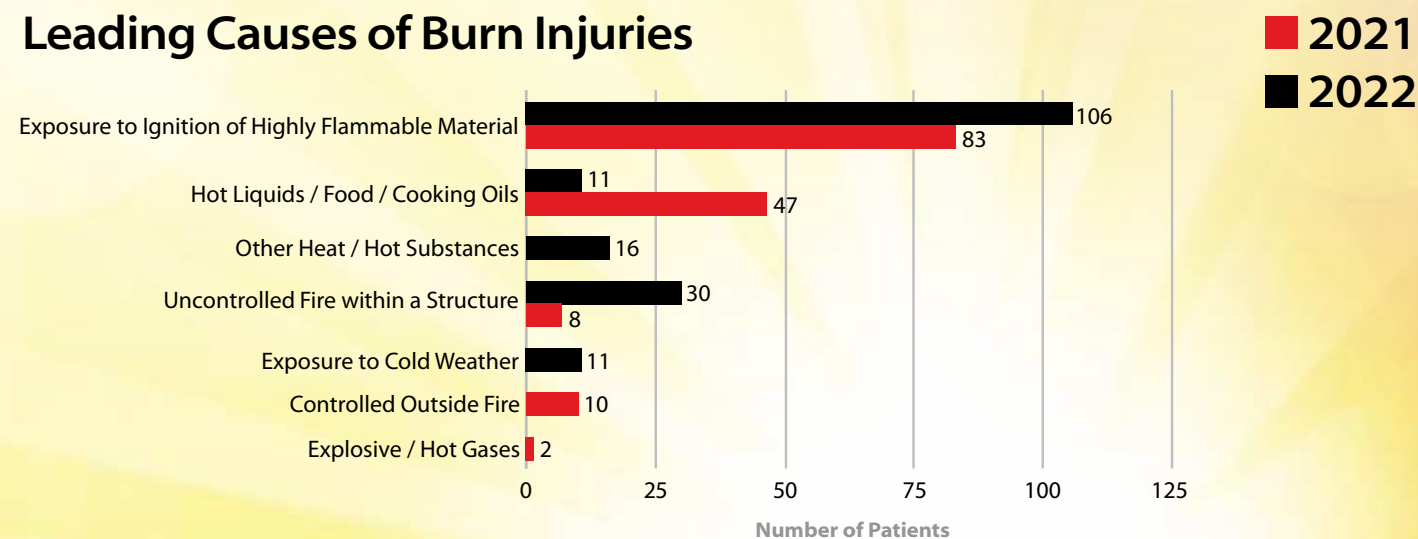


Burn Center Data

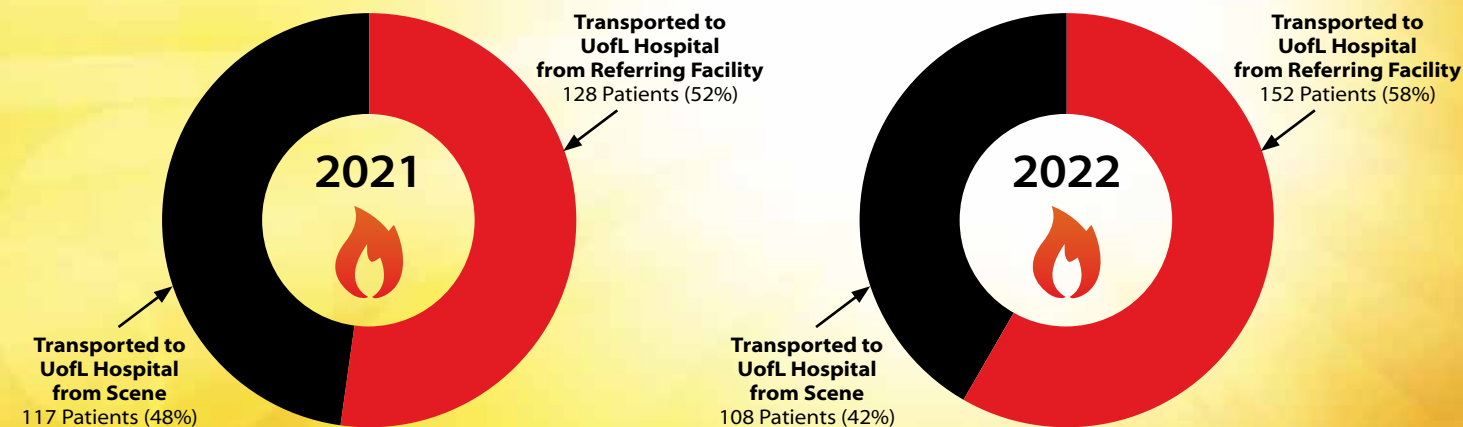
Burn Volume Per Year



Leading Causes of Burn Injuries



Burn Patient Location When Transported





Jodi Wojcik Marshall, DNP, APRN, ANP-C
Outpatient Nurse Practitioner

As the primary burn clinic provider, Jodi has treated burn patients for over 20 years and offers a wealth of knowledge and innovation to burn patients under her care.

Outpatient Care

Due to increased volume in 2021/22, the burn clinic expanded and began to see more patients outside of the scheduled Wednesday morning hours. Also, during the fall of 2022, Ryan Shapiro, M.D., spearheaded a laser program designed to assist with reconstruction and scar management. This procedure was conducted monthly, treating on average eight to ten patients each month. Our burn patients were also seen by physical therapists and occupational therapists as-needed during their visits to optimize their recovery. In addition, we offered telehealth services for patients who live further away.

2,074
encounters in the outpatient burn clinic provided burn and wound care in 2021/22

Burn Center Pilot Project

Building on the success of previous years, our burn team expanded the burn center pilot project beyond the Owensboro Regional Health Hospital to include the entire state throughout the fall of 2022. This became known as our "Burn Road Show," which served as the basis for the "To Go Or Not To Go," poster and corresponding campaign. The goal of this project was to provide continuing education for facilities throughout Kentucky, allowing partner institutions to provide the highest level of burn care and potentially decrease the number of unnecessary patient transfers over time. This is critical in ongoing efforts to save patients time and money, and allows them to receive quality care from their home hospital. The Burn Road Show also improved communications between the facilities for those occasions where a transfer was required. Ultimately, we wish to expand teleconsultation to even more hospitals across the region.

In 2021/22, **105** burn patients were seen via telehealth services

"Growing our burn center represents an increasing commitment to serving patients across Kentucky. To meet the need of our patients and referring facilities, we have developed a burn tele-consultation program."

- Michelle Broers, PT, DPT, CWS, FACCSW



Michelle Broers providing education on scar management, wound care and range of motion to a patient at our burn clinic.

Burn Center Activities and Education Highlights

- **Advanced Burn Life Support (ABLS)** – Of 9 classes with 59 ABLS providers, 4 became ABLS Instructors for a total of 6 ABLS instructors. Also, the ABLS coordinator, Haily Smith, is recognized as National Faculty which means that she is eligible to observe instructor candidates as they learn to become instructors. This is a prestigious title signifying her advanced expertise in Advanced Burn Life Support.
- We provided **Burn Education** in conjunction with RTTDC courses for the Western and Eastern Healthcare Coalitions in the fall of 2021.
- **EMS education: The Burn Unit held 17 courses across the state** – Our burn education was also provided internally to nurses, trauma resource nurses, ED nursing staff, rehabilitation, and physicians as well as advanced practice providers. Staff members of the burn program also provided burn education to some of the surrounding Universities, in addition to others throughout the state.
- **Burn Chili Cook Off** – An annual event in the fall celebrating the burn staff and burn survivors.
- The Burn Program sponsors the annual **Kentucky Fire Sprinklers Contractors Association (KFSCA) Golf scramble**.
- The **Stay Safe Course** is provided quarterly to youth who have previously engaged in, or are currently entertaining, risky behavior with fire.
- Some of our other outreach opportunities include: providing burn education at the **Kentucky State Fair** and providing giveaways to more than 800 people, providing burn education to high school students and local Boy Scout troops, and participation in multiple media segments.
- In the summer and fall of 2022, Tracie Burchett (trauma outreach and education coordinator) and Haily Smith (burn educator and resource nurse) traveled throughout the state for a **"Burn Road Show,"** providing burn resources, snacks, and referral information to 20 referring facilities/hospitals.



Posters, Abstracts and Research

In 2021/22 UofL Hospital – Burn Center program was represented at the Southern Regional Burn Conference in New Orleans and Baton Rouge, La., The American Burn Association Annual Conference in Las Vegas and virtually, and JAB Burn and Wound Care Symposium in Maui, Hawaii. Posters presented were "Destination Verification-Pursuing Burn Center Verification from the American Burn Association" presented by Samantha Baker, Trauma Registry Manager, and C. John Luttrell, Burn/Trauma PI RN. "To Go or Not To Go: Building a Tele-consultation program for the Triage of Burns in a Rural Setting" presented by Michelle Broers, Burn Program Manager and Mike Mixson, MSN and Trauma Program Manager at Owensboro Health. This poster was awarded second place in the 2021 Southern Region Burn conference and first place in its category at the ABA (see photo). Michelle Broers also presented a podium presentation at the Southern Region Burn Conference and the JAB Burn and Wound Conference titled "No Thank You: Managing Burn Wound Treatment When the Patient Refuses"





Bree Williams.
Positivity.
Trauma Survivor.

know what was going on. I was confused. This was during COVID-19, so I couldn't have visitors, but my son was allowed to come in ... on the other side of that though, they [UofL staff] took great care of me!"

Initially, her recovery was challenging. Bree was still in a tremendous amount of pain (in addition to dealing with the mental pain and anger from her attack that she was still processing). As a result, she initially refused some of her treatments and rehabilitation efforts to get her up and moving. This changed however after a visit from a man from UofL Health – Frazier Rehabilitation Institute. This individual informed Bree, "If you don't get up and move around, you may stay in this condition." At that moment, Bree accepted the man's help and within a few minutes Bree and the man were walking out into the hallway together - more movement than Bree had done in weeks.

This led to the turnaround that resulted in Bree continuing along the path towards physical and mental recovery. "That's what I used as my stepping stone to heal and move forward in my healing. Accepting what happened, not blaming myself, and forgiving the person who did this to me. I felt a huge burden lifted from me when I said, 'Lord, I forgive him.' When I said that, I felt like freedom had just hit me."

Bree continued to heal and regain her independence through outpatient care, with her family playing a pivotal role throughout the process; after all, she needed help with everyday things that required the use of her hands. She notes that initially, she would miss simple things like getting her nails done, worried that she couldn't enjoy getting them done because her hands weren't healed fully. Now, she gets them painted often, in bright, vibrant pastel colors. "I like bright colors, it just reminds me of life, living and nature."

"One of my therapists always told me to smell the roses and blow out the candles. I did that to help calm my spirit because I would get so anxious to try and do things that I normally would do before my injuries. When I was in therapy I had to learn how to walk, dress myself, feed myself ... I breathed through any of the anxiety I was feeling."

Bree's positivity continues to shine brightly to this day. Upon reflecting on the events of March 7, 2021, Bree is able to look past the event itself and maintain a sense of hope and optimism in everything else life can be.

"In a world full of negativity, and trauma, how do you take it day by day? Do you fall victim to what's going on in the world, or do you decide to live and move forward in happiness and love? I like life, and I like the beauty of it, and I like people."

Bree's Story

Bree Williams of Louisville, Ky. radiates positivity and joy in abundance. Every day she wakes up, plans her day and affirms that today will be a great day, no matter who she comes into contact with or whatever the day may bring. She currently works for Chewy® and specifically with customer service. This job requires a large amount of empathy, as people can feel very intensely about their pets.

She is also a very hard worker, and was celebrating some good news on the day her life changed forever.

Around 4:00 p.m. on March 7, 2021 Bree was in the comfort of her home at The Villages of Hikes Point, on the phone with her sister. She had just landed a contract to clean AirBnB locations in and around Louisville. At the time, in addition to her regular job at Kentucky Farm Bureau, Bree ran a cleaning business. She was celebrating the good news when she looked through her blinds and noticed a situation enveloping outside; one of her neighbors was in a fight with someone. "[Redacted] is out here attacking somebody with a machete ... oh my God he's going to kill him!"

Bree proceeded to call 911 anonymously, detailing that someone was being attacked with a machete on Kozy Kreek Drive, carefully avoiding giving any information that would identify Bree as the caller. Police eventually arrived, and detained the attacker. For some reason, the attacker was allowed to go back inside, and the police left the scene. After watching the scene from her apartment, Bree turned back to her kitchen while still on the phone with her sister. Suddenly she heard the door to her apartment open, and Bree heard a voice behind her from inside her apartment.

"I heard you been talking,' is what he says."

Bree "...didn't have time to do anything. I didn't know what to do, I just knew I was being confronted with my neighbor with a machete. I thought this was it for me, I'm about to die."

She wasn't ready to die though. "I had to fight back, and my hands were my defense."

The attack poured outside of the apartment, where her assailant attacked the back of her head, her neck and other locations on her body. "I was repenting, I was praying, and I remember his face and the evil that I witnessed in his face looking down at me as he was attacking me. I kept saying, 'Jesus,' and I remember [the neighbor] saying, 'Shut the ___ up.' I just rolled over and laid there. I was depleted, I had no more energy, and I felt the life leave my body." Bree was left in a pool of her own blood. Eventually, Bree's son arrived on the scene, at which point the neighbor ran away and tried escaping into nearby businesses. Bree blacked out before emergency services could arrive.

Bree was taken to UofL Health for emergency care. She had received intense injuries from the machete to her entire body. "I felt hopeless. I cried most of the time I was there, and I didn't

Evan's Story

Eighteen-year-old Evan Sibley of Oldham County, Ky. is a heavy equipment operator, who was wrapping up a long day of work at Ask Services in La Grange when tragedy struck. A normal day started at 7:00 a.m. with a shower and some breakfast which would roll into a workday starting at 8. They would work, "Until we felt like quitting. Then I'd go find some supper, hang out with my friends and do the same thing the next day. That was a pretty repetitive process, I was very content."

On August 25, 2022 around 5:30 in the afternoon, Evan was getting off work to go work on the 1992 Ford F-250 he inherited from his late grandfather with his father. Upon returning to the shop at Ask Services, Evan exited his truck. Another, much larger truck being driven by Evan's longtime friend, mentor and boss Andy, was parked perpendicular to the vehicle Evan had just exited. Evan had just started walking behind the larger truck to go around back to the shop when Andy put the truck in drive. The bigger truck's clutch didn't engage in time and the larger truck rolled backwards just enough to pin Evan between his work truck and the larger vehicle. Frantically, Evan signaled to Andy what had happened, who moved the truck as quickly as he could. After freeing himself from between the two vehicles, Evan was able to get back to the shop, where he ultimately collapsed.

The freak accident resulted in severe damage to Evan's internal organs. One lung had collapsed, both kidneys had to be removed, multiple broken ribs, in addition to damage to his intestines, adrenal glands, diaphragm and more. "There was almost more messed up, than not messed up."

While Evan was able to make an incredible recovery, he remains on multiple lists for a kidney donation. He still requires dialysis multiple times a week and will until he's able to receive a new kidney. This however doesn't dampen his spirits at all. Evan is currently on worker's compensation for now, his plan remains getting new kidneys and getting back to the life that he loved so much.

"I've got something in my near future, I just don't know what. There's always something here for me, otherwise I wouldn't still be here."

Evan is still on the list for a kidney transplant and at this point his family is considering a living donor transplant. If you or someone you know would be willing to consider donating a kidney, please contact the UofL Health trauma team, who can put you in contact with Evan's family for further information.



Evan Sibley.
Profound.
Trauma Survivor.

Janae's Story

Janae Wright of Louisville, Ky. is one of those rare people who can command whatever room she walks into. Within minutes of meeting her, one can't help but smile at her sense of humor and strong, fun-loving personality. She unconsciously radiates a degree of gravitas behind her fierce smile and bright, vibrant eyes.

For Janae, a normal day starts much the same as it does for millions of mothers across the United States. In her words, "A normal day starts off about 6 a.m. with me and my son, getting him ready for daycare." After dropping her son off at daycare, Janae goes to work until late into the day. She is also a dance instructor and spends her free time inventing and choreographing routines for her students (her favorite dance styles include lyrical and contemporary dance). Dance is a powerful medium, one through which Janae feels she can best express herself.

That sense of artistic expression is more than evident in the stances and poses she would strike over the course of her photography session; with defiant hands on her hips, it was immediately clear that this was someone who loves life and the challenges and triumphs it can present.

Janae has faced more challenges and triumph than most will ever experience over the course of a lifetime.

On the frigid evening of February 8, 2021, Janae was returning to her house on Lillian Avenue in South Louisville. Janae had just gotten off a second shift job that ended after 10 p.m., and had stopped to get some gas for her car in anticipation of the inclement weather expected the following day. After fueling up, Janae parked her car a little after 10:30. Looking through the back alley of her house, she noticed another car with two men parked nearby in an abandoned lot behind the property. At the time, there was construction underway near that lot, and Janae reasoned that the car likely belonged to some workers who may have been setting up for the next day.

Janae was pregnant at the time and exhausted from a long day of work. Eager to get inside and out of the cold Kentucky winter, Janae exited her vehicle and began walking up the porch to her house. As she proceeded towards her house, one of the men got out of the other car and began walking along the fence line towards her. "Just as I was going to insert my key into the keyhole, I noticed the gentleman walking towards me rather

fast." Janae turned to ask how she could help the man walking towards her. In an instant, there was a gun in her face, and the man demanded she hand over her purse.

"Naturally I just froze, I was in shock, I couldn't believe it, like what was happening, how did we get here," Janae remembers asking herself.

In the process of handing over her purse, she tried pleading with the man. "Please don't do this, just take the money, it's not worth it, I'm pregnant. Just here, have it, have everything."

The man fired several rounds into Janae, at which point she collapsed to the ground. After turning to run away, he fired three more shots in her direction.

Janae's adrenaline kicked into overdrive, and she leaped to the right trying to make it to her cousin's home who had a Ring™ camera. Her thought was that if she could alert the camera, her cousin could call the police. She collapsed en route to the house, and called out to her neighbors, hoping they would hear her cries for help. Her neighbors heard and immediately ran to her aid. Janae asked her neighbor to call her father, as she thought this was about to be the end of her life.

"At the time, I'm assuming this was the end of my life, these were starting to feel like the last moments. I'm losing strength, I'm feeling blood pour out of my body ... In fact, that was the only thing that was keeping me warm that night."

Upon her arrival at UofL Health, Janae learned she had been shot six times.

Doctors began triaging her injuries, unsure if her child had survived the attack. The next morning she learned that a bullet fragment had entered her bladder, narrowly missing her uterus. "It was miraculous that the bullet did not enter my uterus, and that the baby was still alive. They were able to confirm that I was still pregnant." After surgically removing the bullets from her body, Janae began the road to recovery.

She remembers the disbelief that this was happening to her. "I was terrified for my family. I told the EMT, 'Please don't let me die, this will kill my family.' Only about three people were

aware of my pregnancy, so for them to find out in this way, in the event of my death, that not only did she die but her baby died, it was really tough."

Janae began to hyperventilate, watching her entire life flash before her eyes and notes that she was not prepared to die. "If I die the baby dies. I went into this survival ... like for me there was almost no panic, I knew exactly what I had to do."

Despite this, Janae notes that it was a struggle to maintain consciousness, as well as to stay alive. Every breath she took and every time she blinked, she worried she might not open her eyes again. "It was a pull of to stay or to go, and it was really hard to fight 'The Go' ... but I knew that I HAD to stay alive."

Janae's road to recovery wasn't easy, with multiple catheters inside her and temporary paralysis in her left leg due to a shot that hit her femoral nerve and a missing piece of her femur from the shots that hit her. Her outpatient care took place at her grandmother's house due to the high volume at Frazier Rehabilitation Institute. She needed round-the-clock care to recover, on top of proceeding further and further into her pregnancy. Ultimately, her recovery had to take a back seat as she prepared to become a mother.

Javien Wright was born September 1, 2021.

Janae's emotions as she continued to recover. "Now, I feel triumph. I feel as though I've overcome, I feel relief. There was so much I was worried about. Javien and I live a really happy, simple life, which makes it even easier to be happy. My son is a really really smart kid, full of energy. That gives me the joy to get through each day, though I struggle every day trying to figure out why this happened. But I don't let those feelings consume me, I don't let those feelings outweigh the good feelings that I worked so hard towards getting back."

Janae would like to remind any survivor going through their own trauma recovery, "... just, preserve. Don't give up. There is a way out, unfortunately, the only way out is through. But you aren't alone. Seek advice, seek counseling, don't suffer by yourself."



Janae and Javien Wright.

Powerful.
Full of energy.

Trauma Survivor.



Janae with the responding LMPD officers reunited at Trauma Survivor Night.

UofL Hospital is equipped with 14 inpatient and eight outpatient operating room suites, with two suites dedicated to the treatment of the most critically injured patients.

Our operating rooms are fully staffed

24/7/365

and ready for use within minutes of a trauma patient's arrival.

UofL Hospital
J. David Richardson Trauma Center

 UofL Health

530 S. Jackson Street, Louisville, KY 40202 502-562-4060

UofLHealth.org

If you would like to know more about how you can support the efforts and needs of the trauma center, please contact Elea Fox:

502-415-8629

Elea.Fox@UofLHealth.org

We are a **501(c)3 non-profit** organization, and all donations are tax deductible to fullest extent allowed. Your generosity can help ensure that this work is available to our community and continues to grow.

