Letter from UofL Hospital’s Trauma Center

The Trauma Center at UofL Hospital has a long-standing history of caring for our local, regional, and statewide communities. Our history can be traced back to 1911 when the Louisville City Hospital started an accident service, representing the first designation in the country of a hospital service whose primary mission was the care of patients with injuries and fractures. In 1982, we were formally designated as a Level 1 Trauma Center by the American College of Surgeons. Despite all the changes over our one-hundred year history, we have remained committed to caring for those in their greatest moment of need.

This commitment to injured patients will continue as UofL Hospital’s daily management transitioned in July 2017 to University Medical Center (UMC) and away from KentuckyOne Health. The new management structure allows the organization’s world-class nurses and staff, partnered with the physicians and providers with UofL Physicians, to deliver an expanded level of extraordinary health care to patients and their families. As we begin a new chapter in our history, we want to reiterate our commitment to caring for all the communities we serve, urban and rural, local and out-of-state.

Our 2016 Annual Report demonstrates our commitment to the various communities we serve and to each and every patient in our care. We are honored to continue the proud tradition of care of the injured patients started over one-hundred years ago. We look forward to continuing to serve the injured patients in our area by providing the best care available anywhere across the country.

Brian G. Harbrecht, MD, FACS  
Medical Director, Trauma Services  
UofL Hospital

Kim Denzik, RN, BSN  
Trauma Program Manager  
UofL Hospital

“As we begin a new chapter in our history, we want to reiterate our commitment to caring for all the communities we serve, urban and rural, local and out-of-state.”
About Us

UofL Hospital

UofL Hospital, an academic teaching and research hospital, is in the heart of the Louisville Metro area in downtown Louisville. We are the primary adult hospital for the University of Louisville School Of Medicine, providing clinical training for residents, medical students, nurses and other professional medical providers.

ACS-Verified Level I Trauma Center

Our distinction as the region’s only American College of Surgeons (ACS) Verified Level 1 Trauma Center for adults means we have achieved the highest level of verification to deliver care to adult patients with the most severe injuries. We are one of only two Level I adult trauma centers in Kentucky.

Emergency Department

Our Emergency Department provides a multidisciplinary approach to deliver optimal care for trauma and other emergencies. We are staffed with a team of faculty, emergency medicine residents, physician assistants, and a specialty-trained nursing staff that provides emergency services 24 hours a day, seven days a week. We are also the area’s only decontamination facility for chemical and biological decontamination of individuals exposed to hazardous materials.

Trauma ICU

We have two trauma surgical intensive care units (ICU) specializing in the care of the most critically-ill and injured patients. Each trauma ICU has been recognized by the American Association of critical care Nurses (AACN) with the Silver Beacon Award for Nursing Excellence.

Operating Rooms

We are equipped with 14 inpatient and eight outpatient operating room suites. Because we are continually staffed around the clock with all the necessary personnel to perform the most complex surgeries, our operating rooms are ready for use within minutes of a trauma patient’s arrival.

Burn ICU

We provide comprehensive burn care through our adult burn intensive care unit—the only such dedicated unit in Kentucky. Our trauma surgeons and burn unit nurses are specially-trained in burn injuries to provide the highest level of care possible.

By The Numbers

We are capable of treating many patients simultaneously by utilizing:

- 43 patient emergency bays
- 20 trauma/surgical ICU beds
- 50 critical care beds
- 5 burn beds
- 6 stroke beds

As the academic hospital at the heart of the Louisville metro area, UofL Hospital is quite literally at the center of the latest developments in patient care. Our doctors, nurses and staff are pioneering the treatments that are shaping the future of health care.
Coverage

Serving Patients from Across Kentucky and Beyond

In 2016, our trauma center treated 3,483 patients; 54% of those patients resided in counties outside of Jefferson County. The number of patients who come from outside the Louisville Metro area makes the UofL Hospital Trauma Center a vital local, regional, and statewide resource.

<table>
<thead>
<tr>
<th>Patient State of Residence</th>
<th>Number of Patients</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residing in Kentucky</td>
<td>2734</td>
</tr>
<tr>
<td>Residing in Indiana</td>
<td>640</td>
</tr>
<tr>
<td>Residing in Neither Kentucky Nor Indiana</td>
<td>109</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>3483</strong></td>
</tr>
</tbody>
</table>

54% of Patients Treated Resided Outside of Jefferson County

3,483 Patients Treated in 2016
Method of Transport Data

- Helicopter from Referring Hospital: 5.4% / 188 Patients
- Ambulance from Referring Hospital: 26.5% / 923 Patients
- Vehicle / All Other from Scene: 5.8% / 201 Patients
- Helicopter from Scene: 10.7% / 371 Patients
- Private Vehicle / All Other from Referring Hospital: 0.49% / 17 Patients
- Ambulance from Scene: 51.2% / 1783 Patients

Transport Location Data

- To ULH from Referring Hospital: 32.4% / 1128 Patients
- To ULH from Scene: 67.6% / 2355 Patients
Leading Causes of Injury

- **Motor Vehicle / Motorcycle Crash**: 1315 Patients
- **Falls**: 957 Patients
- **Gunshot**: 304 Patients
- **Burn (primary cause)**: 150 Patients
- **Stabbing**: 92 Patients
- **Pedestrian Struck**: 136 Patients
- **Assault (blunt)**: 162 Patients
- **Pedestrian Struck**: 119 Patients
- **Burn**: 161 Patients
- **Assault (blunt)**: 124 Patients

Body Region Injured

- **Chest**: 1288 Patients
- **Lower Extremity**: 1220 Patients
- **Head**: 1172 Patients
- **Upper Extremity**: 810 Patients
- **Face**: 587 Patients
- **Abdomen**: 515 Patients
- **Lumbar Spine**: 395 Patients
- **Cervical Spine**: 390 Patients
- **Thoracic Spine**: 367 Patients
- **External Skin**: 182 Patients
- **Neck**: 68 Patients

We are the region’s only American College of Surgeons (ACS) Verified Level I Trauma Center for adults and we are one of only two Level I adult trauma centers in the Commonwealth of Kentucky. Additionally, we have the region’s only dedicated burn unit.
2016 Burn Data

In 2016, we treated 161 patients with burn injuries as the primary cause of injury. Of those, nearly 70% were injured by events occurring in the home. The leading causes of burn included:

- House fires
- Hot liquids spilled
- Fireworks
- Clothing catching fire
- Adding accelerants to brush fires
- Smoke inhalation during house fires
- Smoking cigarettes while using/storing oxygen at home

ISS – Injury Severity Score

The ISS (Injury Severity Score) 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 is used to designate patients considered to have major trauma (or polytrauma). The ISS scale is categorized as follows:

- Minor: 1-9
- Moderate: 10-15
- Severe: 16-24
- Critical: 25-75

Burn Injury Transport Data

- To ULH from Scene: 45.3% / 73 Patients
- To ULH from Referring Hospital: 54.7% / 88 Patients

Data

- To ULH from Scene:
  - 2016: 45.3% / 73 Patients
  - 2015: 47.5% / 83 Patients

- To ULH from Referring Hospital:
  - 2016: 54.7% / 88 Patients
  - 2015: 52.5% / 84 Patients

n = 3,483 patients year 2016 / 3,475 with an ISS
n = 3,287 patients year 2015 / 3,284 with an ISS
Lisa Jackson is the Executive Director of Surgical Services, the Trauma Center, and our Comprehensive Stroke Center. Lisa provides a wealth of experience and oversight to the trauma program.

Kim Denzik, our trauma program manager, oversees the daily operations and growth of the Trauma Institute. She works closely with the emergency department, surgical services, the access center, and other hospital departments to ensure a multi-disciplinary approach to everything from patient care to community outreach and continuing education.

In addition to coordinating the activities of the Trauma Institute, Stefanie Upton also provides assistance with collecting emergency medical services’ run sheets, payroll support, and clinical education.

Our trauma nurse practitioners work collaboratively with the attending physicians and surgical residents to provide optimal care to our trauma patients. In addition to performing medical procedures, monitoring patient progress, assisting in wound care, and providing staff education, they work closely with case managers and social workers to coordinate care outside the hospital to ensure ongoing rehabilitation.

Left to right: Kimberly Broughton-Miller, APRN; Lisa Jackson, RN; Michelle Frisbie, APRN; Kim Denzik, RN; Jodi Wojcik, APRN; Karina Pentecost, APRN and Stefanie Upton
The Trauma Team would like to offer our deep gratitude to extended member of our team, photographer Scotty Perry, for the photos used in this report.
New Trauma Team Members in 2016

Our trauma team is always working hard to improve and respond to the needs of our patients. In 2016, we added two new roles within the Trauma Institute.

Trauma Social Workers

Lindsey Journey and Latasha White, our trauma social workers, provide patients with bedside therapeutic counseling and interventions. They are also able to link patients with hospital and community resources to improve their recovery and integration back into the community.

The trauma social workers also lead our weekly trauma support groups. These groups provide patients and family members with support, resources, and a way to connect with others who share similar experiences. The support group currently meets every Wednesday from 1 p.m. to 2 p.m. in the hospital chapel.

Trauma Resource Nurses

Ashley Wheeler and Danelle Jones, our Trauma Resource Nurses, work in collaboration with our Emergency Department (ED) and Intensive Care Unit (ICU) nurses to provide ongoing care for our most critically ill trauma patients. In the ED, they assist with trauma evaluation and help transition the patient through the emergency department to the trauma unit.

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.
Our Trauma Faculty

UofL Hospital trauma surgeons are also professors and researchers at the University of Louisville School of Medicine.

Kelly M. McMasters, MD, PhD
Chair and Professor,
University of Louisville
Department of Surgery

J. David Richardson, MD
Vice Chair and Professor,
University of Louisville
Department of Surgery

Brian G. Harbrecht, MD
Trauma Medical Director
Professor,
University of Louisville
Department of Surgery

Glen Franklin, MD
SICU & Burn Unit Medical Director
Professor,
University of Louisville
Department of Surgery

Jason W. Smith, MD, PhD
Associate Professor,
University of Louisville
Department of Surgery

Matthew Benns, MD
Associate Professor,
University of Louisville
Department of Surgery

Matthew Bozeman, MD
Assistant Professor,
University of Louisville
Department of Surgery

Keith R. Miller, MD
Assistant Professor,
University of Louisville
Department of Surgery

Nicholas Nash, MD
Assistant Professor,
University of Louisville
Department of Surgery
Dr. Miller not only provided leading-edge surgical expertise and top-notch care, but has also spent a lifetime teaching the next generation of surgeons.
Outreach

Collaboration with Spalding University

Our trauma surgeons perform research to generate new information about trauma and its impact on our community. Our trauma surgeons are working with Spalding University’s School of Social Work to examine the misconceptions held by the public related to gun violence and gunshot injuries. The findings of this unique opportunity with our social science partners will allow improvements in targeted outreach and education around gun violence in our community.

Anti-Violence Awareness

In June 2016, two of our trauma surgeons visited the state capital to meet with Lieutenant Governor Jenean Hampton regarding the gun violence in Louisville. Dr. Benns and Dr. Nash, community activist Christopher 2X, and three gunshot wound survivors discussed the need to see gun violence as a public health issue and shared their own personal stories in their private meeting with Lt. Governor Hampton.

Stop the Bleed

UofL Hospital is part of the national campaign to teach the public how to stop life-threatening bleeding following everyday emergencies or disasters. Our trauma surgeons and nurse practitioners are teaching tourniquet use and compression techniques to first responders, such as police agencies, as well as community organizations. We know if bystanders can act quickly, we can all work together to save lives.
Referring Facilities

Thank you to our referring facilities!

We are grateful for the care entrusted to us by our patients and referring facilities. It is not only our commitment, but the commitment of our regional partners, referring hospitals, and pre-hospital providers that are critical in allowing us provide the best care available to our trauma and burn patients. We want to thank the individuals both inside and outside our hospital for their hard work and dedication in making our trauma program the national leader that it is.

Baptist Health Louisville
Baptist Health Floyd
Baptist Health La Grange
Baptist Health Madisonville
Baptist Health Paducah
Breckinridge Memorial Hospital
Caldwell Medical Center
Carroll County Memorial Hospital
Casey County Hospital
Clark Memorial Hospital
Cumberland County Hospital
Deaconess
Ephraim McDowell
Ferrell Hospital
Flaget Memorial Hospital
Frankfort Regional Medical Center
Hardin Memorial Hospital
Harrison County Hospital
Harrison Memorial Hospital
Holston Valley Medical Center
Ireland Army Health Clinic

IU Health Paoli Hospital
Jane Todd Crawford Hospital
Jewish Hospital
Jewish Hospital Shelbyville
Kentuckiana Medical Center
King’s Daughters’ Health
King’s Daughters Medical Center
Medical Center Jewish East
Medical Center Jewish South
Medical Center Jewish Southwest
Memorial Hospital and Health Care Center
Methodist Hospital
Methodist Hospital Union County
Monroe Hospital
Murray-Calloway County Hospital
Norton Audubon Hospital
Norton Brownsboro Hospital
Norton Hospital
Norton Women’s & Children’s Hospital
Ohio County Hospital
Owensboro Health Muhlenberg Community Hospital

Owensboro Health Regional Hospital
Parkview Wabash Hospital
Perry County Memorial Hospital
Pikeville Medical Center
Robley Rex VA Medical Center
Russell County Hospital
Schneck Medical Center
Scott Memorial Hospital
Spring View Hospital
St. Vincent Evansville
St. Vincent Salem
Sts. Mary and Elizabeth Hospital
T.J. Health Columbia
T.J. Samson Community Hospital
Taylor Regional Hospital
The Medical Center at Albany
The Medical Center at Bowling Green
The Medical Center at Caverna
TriStar Greenview Medical Center
Twin Lakes Regional Medical Center
University of Kentucky
Albert B. Chandler Hospital
UofL Hospital Access Center

The new UofL Hospital Access Center is the most efficient and effective way to transfer a patient to UofL Hospital. With a call to our access center, the provider-to-provider communication time is drastically reduced, allowing patients to receive quality care right away.

How to Transfer a Patient

1. Call our Access Center: **502-562-8008** or **1-888-803-8008**

2. The Access Center will ask for:
   - Caller’s name
   - Referring provider and hospital
   - Contact number
   - Service being requested
   - Patient name
   - Transferring diagnosis
   - Basic patient condition

3. The Access Center will contact the specialist on call for the requested service

4. The Access Center will facilitate a recorded conference call between the referring provider and the on-call provider to discuss the patient’s condition

5. Once the patient is accepted for transfer, the Access Center will:
   - Coordinate appropriate bed placement
   - Request necessary medical documents
   - Connect nurses for patient report