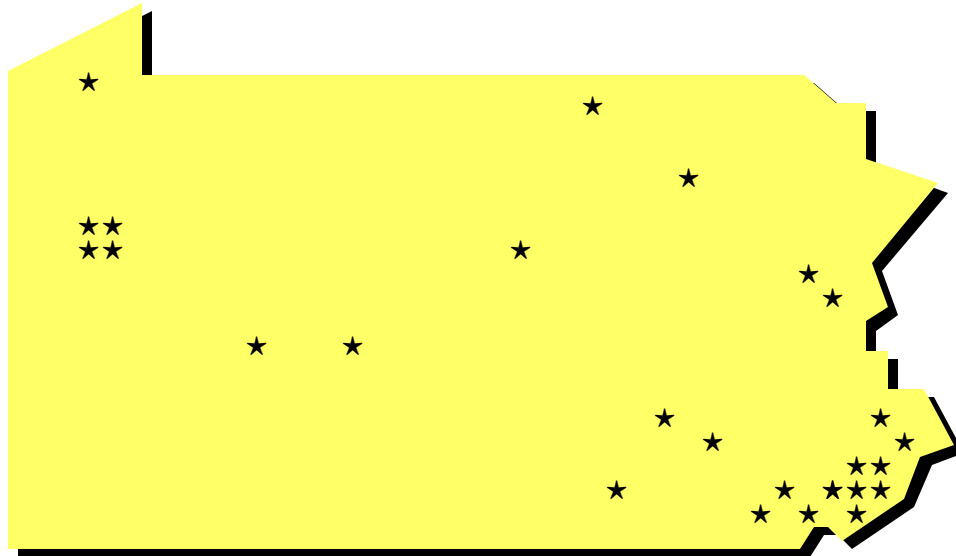


**PENNSYLVANIA TRAUMA
SYSTEMS FOUNDATION
ANNUAL REPORT
2004**



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Dear Colleagues:

This annual report for 2004 marks yet another phase in the development of our trauma system. Last year the report outlined new legislation which was passed mandating that Pennsylvania Trauma Systems Foundation (PTSF) create Level III trauma centers. Since that time the Level III Committee diligently worked on producing a set of standards which were approved by the PTSF Board of Directors. Additionally, twenty-seven million dollars of state and federal matching funds were disseminated to our twenty-six accredited trauma centers and twelve more hospitals committed to pursuing Level III accreditation.

Another phase of development occurred in the area of performance improvement. The Ad Hoc Committee to Develop Site Survey Measurements further refined criteria for determining preventability classifications of deaths and conducted inter-rater reliability testing at our Fall PTSF/PaCOT Conference. Secondary benefits have been the exchange of performance improvement information among the six trauma centers participating on the committee and further standardization of how this information needs to be collected and analyzed. This was just one of 12 committees representing close to 100 representatives from hospitals and organizations throughout the state which serve the needs of our injured patients.

With sadness we bid farewell to several Board members including Tom Lewis and John Wiercinski. Tom served PTSF for 14 years as a representative of HAP and is President/CEO of Thomas Jefferson University Hospital. We are indebted to him for sharing his administrative expertise with us and providing leadership to the Board during three years as President. We also thank John Wiercinski, another representative of HAP, who shared his rural hospital administrative expertise. John is the President of Shamokin Hospital. We welcome several new members to our PTSF staff and Board of Directors which will be identified in this report. Each of our 19 board members brings valuable expertise to the Foundation and is the driving force for trauma system development.

On behalf of the PTSF Board of Directors and PTSF staff we extend our gratitude to all of you for your continued support of trauma care in Pennsylvania.

Andrew Peitzman, Chairman
2004 PTSF Board of Directors

Juliet Geiger RN, MSN
Executive Director

Mission

In pursuit of optimal support for injured persons in Pennsylvania, the Pennsylvania Trauma Systems Foundation exists to establish accreditation standards while promoting the advancement of trauma services.

The Pennsylvania Trauma Systems Foundation is committed to the reduction of death and disability caused by trauma and the provision of expeditious, quality health care that is evidence based.

Background

The Pennsylvania Trauma Systems Foundation was created by the combined efforts of the Pennsylvania Medical Society and The Hospital and Health System Association of Pennsylvania along with the Pennsylvania Nurse's Association, the Pennsylvania Emergency Health Services Council, and the Pennsylvania Department of Health.

The Commonwealth of Pennsylvania first recognized the Foundation in December 1984 when Governor Thornburg signed Act 209 into law. Act 209 expired in June 1985. A comprehensive Emergency Medical Services Act (Act 45) was signed into law in July 1985, which again recognized the Pennsylvania Trauma Systems Foundation and established its mandate.

Purpose

The purpose of the Foundation is to develop a private voluntary trauma center accreditation program to:

- Develop standards for the operation of trauma centers in Pennsylvania, adopting at a minimum the current guidelines for trauma centers as defined by the American College of Surgeons.
- Evaluate any Pennsylvania hospital which makes application to the Foundation to determine if the applicant hospital meets the Standards for Trauma Center Accreditation.
- Conduct site survey visits by site survey teams composed of independent, qualified persons selected by the Foundation to determine if applicant hospitals meet the Standards for Trauma Center Accreditation.
- Issue certificates of accreditation to those hospitals which meet the Standards for Trauma Center Accreditation.
- Establish an appeals mechanism to reconsider accreditation decisions.
- Conduct programs of education and research.
- Develop a statewide trauma registry - known as the Pennsylvania Trauma Outcome Study (PTOS).

Structure

A 19-member board of directors governs the activities of the Foundation. This board is comprised of professionals with experience and expertise in the trauma and health care industry. The Foundation strives to ensure equal geographic representation among board members. Board membership includes:

- five members representing statewide physician organizations including:
 - Pennsylvania Medical Society
 - Pennsylvania Neurologic Society
 - Pennsylvania Orthopedic Society
 - Pennsylvania Osteopathic Medical Association
- five members representing the Hospital and Healthsystem Association of Pennsylvania
- two members representing the Pennsylvania State Nurse's Association
- two members representing statewide emergency services organizations including:
 - Pennsylvania Emergency Health Services Council
 - Pennsylvania Chapter, American College of Emergency Physicians
- Chairman and Minority Chairman of both the Senate and House Health and Welfare Committees, or their committee member designees
- Secretary of the Department of Health or designee

Committees

There are several standing committees within the organized structure of the Foundation. These committees serve a variety of functions ranging from revising and implementing the Standards for Trauma Center Accreditation and the accreditation process to researching and analyzing PTOS data. The Pennsylvania Trauma Systems Foundation relies on the expertise of both its Board members and committee representatives to assure policies and procedures are in place to assure optimal trauma care delivery throughout the state. Committees comprised solely of Board members include:

- Bylaws Committee
- Conflict of Interest Committee
- Executive Committee
- Finance Committee
- Nominating Committee
- Policy and Procedure Committee

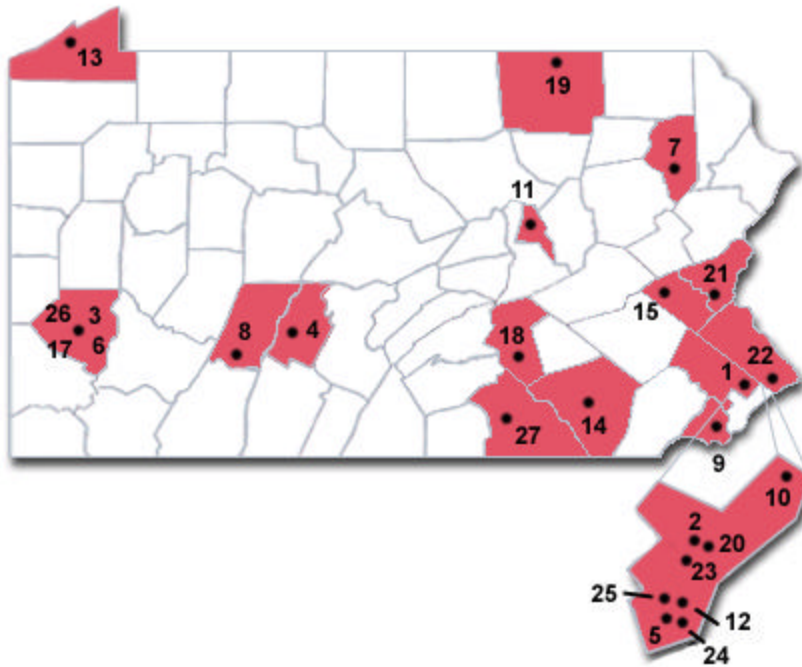
Other committees have a board member as their chairperson and involve trauma center and nontrauma center representatives. These committees include:

- Research Committee
- Standards Committee
 - Pediatric Standards Committee
- Trauma Registry Committee
- Committee to Develop Site Survey Outcome Measurements

Several Ad Hoc Subcommittees have also formed including:

- ? Ad Hoc Committee to Review Burns
- Ad Hoc Committee to Review Level III Initiatives (for 2004 only)

Accredited Pennsylvania Trauma Centers October 1, 2003 through September 30, 2004



1. Abington Memorial Hospital
2. Albert Einstein Medical Center
3. Allegheny General Hospital
4. Altoona Hospital
5. The Children's Hospital of Philadelphia
6. The Children's Hospital of Pittsburgh
7. Community Medical Center
8. Conemaugh Memorial Medical Center
9. Crozer-Chester Medical Center
10. Frankford Hospital-Torresdale Campus
11. Geisinger Medical Center
12. Hahnemann University Hospital
13. Hamot Medical Center
14. Lancaster General Hospital
15. Lehigh Valley Hospital

17. The Mercy Hospital of Pittsburgh
18. The Milton S. Hershey Medical Center
19. The Robert Packer Hospital
20. St. Christopher's Hospital for Children
21. St. Luke's Hospital
22. St. Mary Medical Center
23. Temple University Hospital
24. Thomas Jefferson University Hospital
25. University of Pennsylvania Health System, University of Pennsylvania Medical Center
26. University of Pittsburgh Medical Center
27. York Hospital

Total Number: **26 hospitals**

Pennsylvania Trauma Outcome Study Statistical Highlights

The Pennsylvania Trauma Outcome Study is the Pennsylvania Trauma Systems Foundation statewide trauma registry whereby all accredited trauma centers submit data on each of the “PTOS Qualifying” trauma patients cared for in their institution. Only patients with the following criteria are submitted:

ALL patients admitted for treatment of a diagnosis of trauma (ICD-9-CM injury codes 800-995) and who meet any of the following criteria:

- All Intensive Care Unit (ICU) admissions (2:1 ratio)
- All step-down unit admissions (4:1 ratio)
- All Dead on Arrivals (DOA), pronounced dead after arrival
- All Trauma Deaths
- All trauma admissions over 48 hours, beginning from the time of arrival to the Emergency Department.
- All **admitted** transfers In
- All transfers Out
- Cases meeting **any of** the above criteria but have no documented injuries
 - Burn cases which meet one of the above criteria plus one of the following:
 - burned area 2^o and 3^o (age <10 or >50): 10%
 - burned area 2^o and 3^o (age >10 or <50): 20%
 - burned area 3^o : >5% at any age
 - chemical burn
 - electrical injury
 - burn of face, hands, feet or perineum
 - airway or inhalation injury
 - burn accompanied by:
 - significant associated injury or pre-existing disease
 - suspected child abuse

OPTIONAL Elective admissions (patients not admitted through the Emergency Department not transferred from another facility) with an injury date > 72 hours prior to admission and an Injury Severity Score \geq 13 may be submitted to PTOS. Elective admissions with injury > 72 hours prior to admission and ISS < 13 need not be submitted.

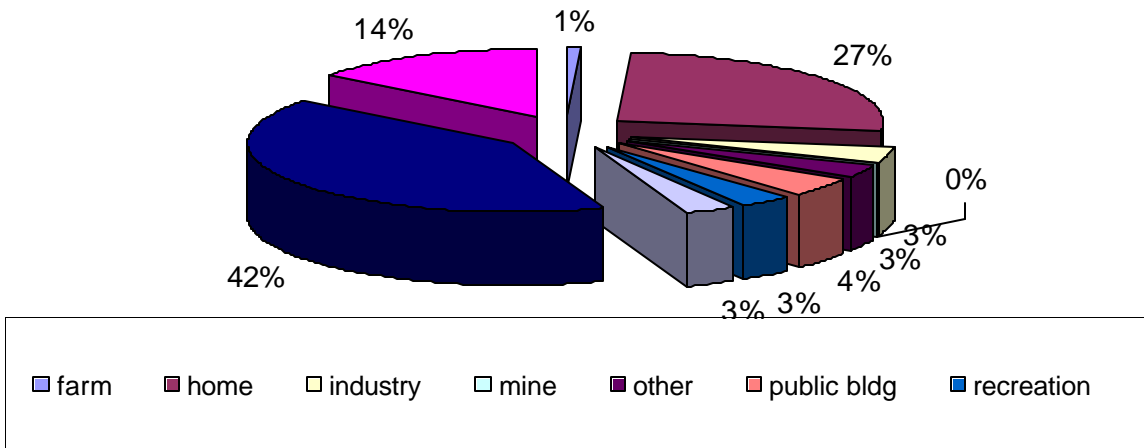
- There were **24,421** trauma patients submitted to the PTOS trauma registry in calendar year 2004.
- The sum total of all trauma patients submitted to the PTOS database as of December 31, 2004 is **366,512**.
- Sixty-three requests for research data were provided using data provided by the Pennsylvania Trauma Outcome Study database. Eight reported articles were published or presented as abstracts using PTOS data.

Pennsylvania Trauma Outcome Study Highlights

Place of Injury

The most common place of injury continues to be streets due to motor vehicle crashes comprising the highest mechanism of injury. Injuries in the home consistently remain in the 25% range. The “unspecified” category means there was no information available regarding where the patient was injured.

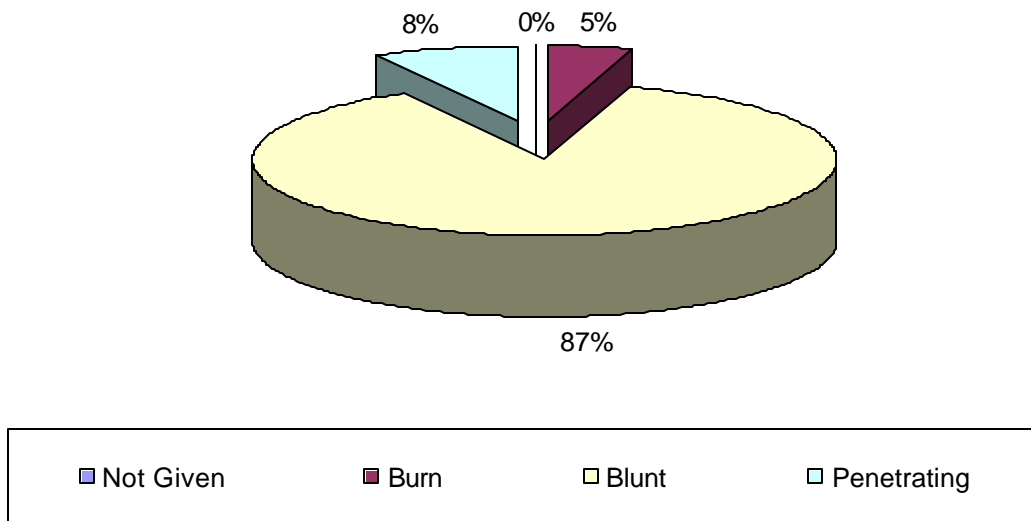
2004 PTOS -Place of Injury



Type of Injury

The vast majority of injuries are caused by motor vehicle crashes and falls which generally result in blunt injuries.

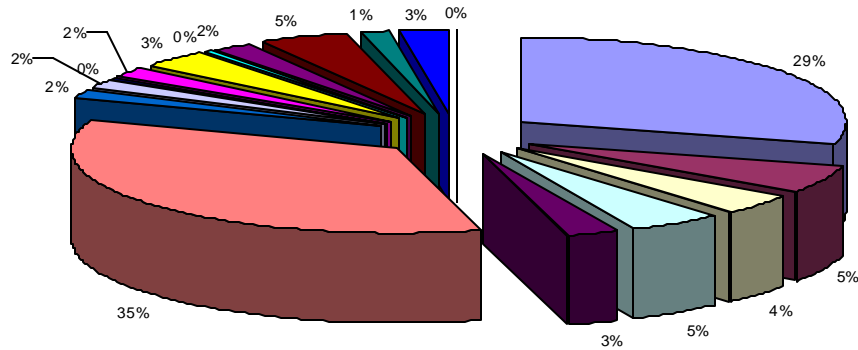
2004 PTOS - Injury Type



Cause of Injury

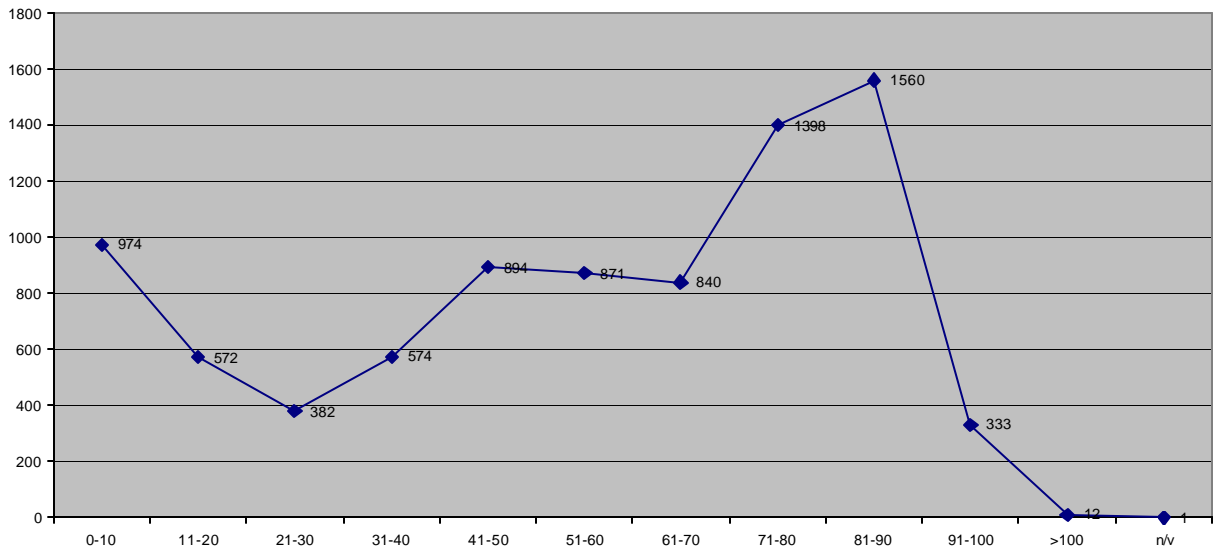
Motor vehicle crashes and falls are the two primary causes of injuries for patients cared for in Pennsylvania's trauma centers. Falls classified by age in decades is shown below. Burn injuries have steadily increased since their collection in 1995 from 211 in 1995 to 1180 in 2004.

2004 PTOS Patients - Etiology

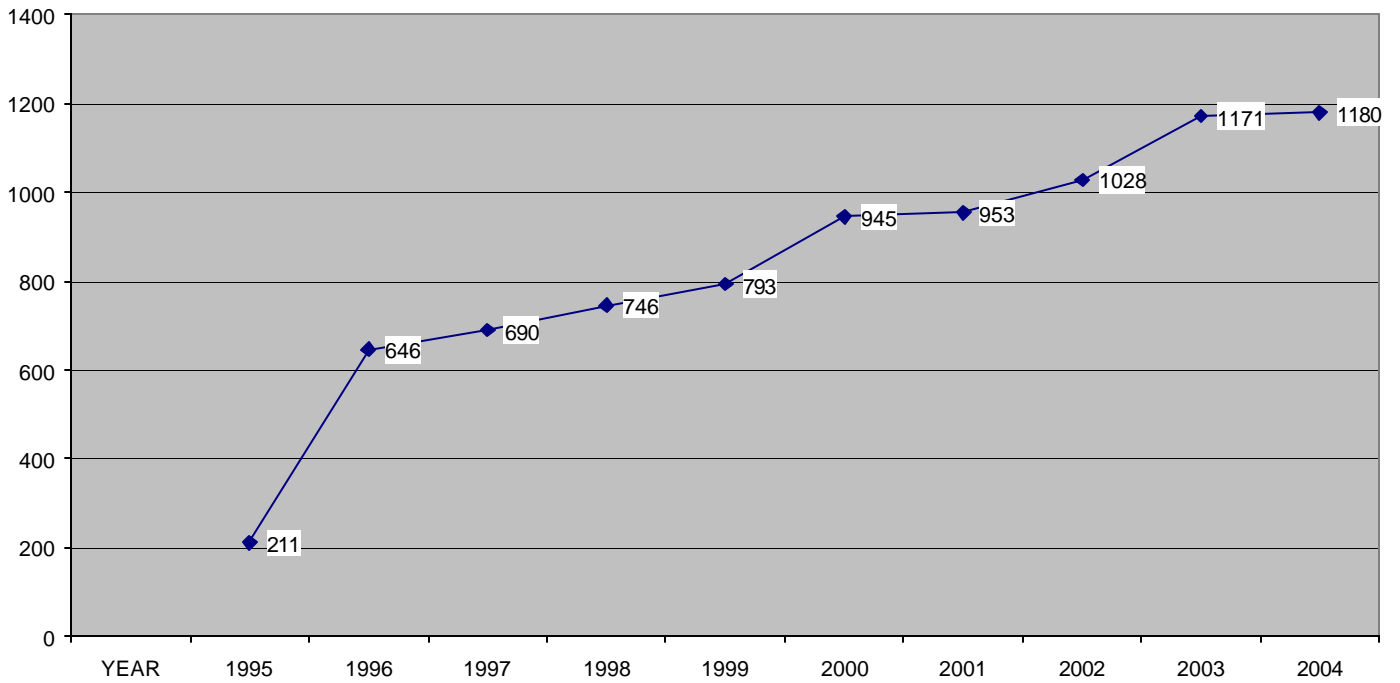


Motor Vehicle	Motorcycle	Pedestrian	Gunshot	Stabbing
Fall	Hot/Corrosive Material Injury	Pedal Cycle	Air/Water Craft	Fire/Flame
Struck By/Against Object/Person	Caught Between Object	Machinery/Powered Tools	Fight/Assault/Abuse	Animal Related
Other	Unknown			

2004 PTOS - Falls

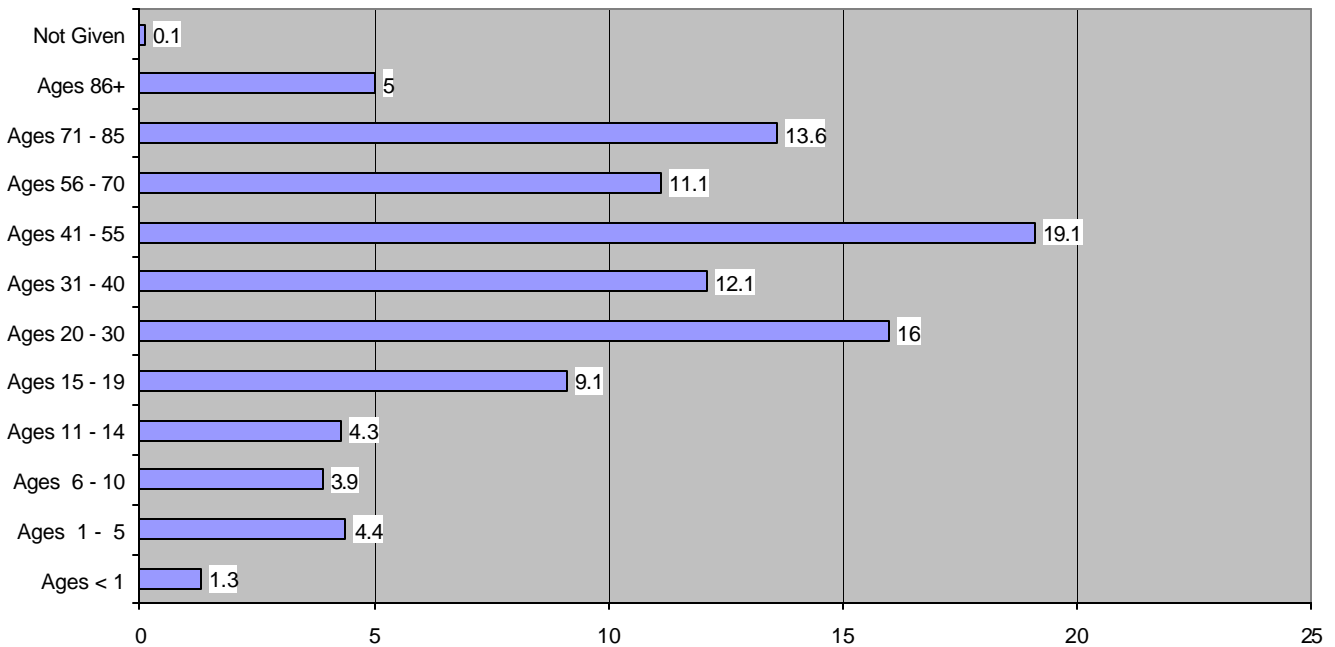


2004 PTOS - Burns



Age Groups

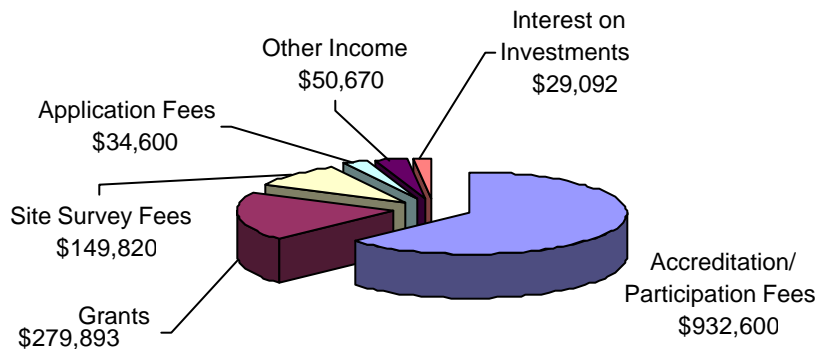
2004 PTOS - Age Categories



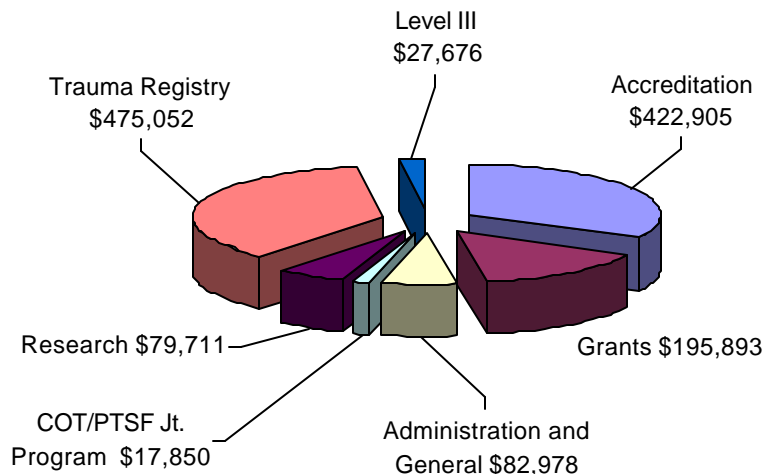
Finances

The Foundation is a non-profit Pennsylvania corporation operating under Section 501 (C) (3) of the Internal Revenue Service Code. Primary funding is obtained through fees associated with the accreditation process. Occasional federal and state grants are obtained. In FY'04 the Foundation received money as part of a HRSA Bioterrorism grant. The focus of the money was dedicated toward improving the ability of acute care hospitals and pre-hospital personnel to manage injured patients in the event a terrorist act creates a mass casualty situation. State legislative funds were also received in 2004 to enhance trauma system development in Pennsylvania by development of Level III trauma centers and enhancement of performance improvement activities statewide.

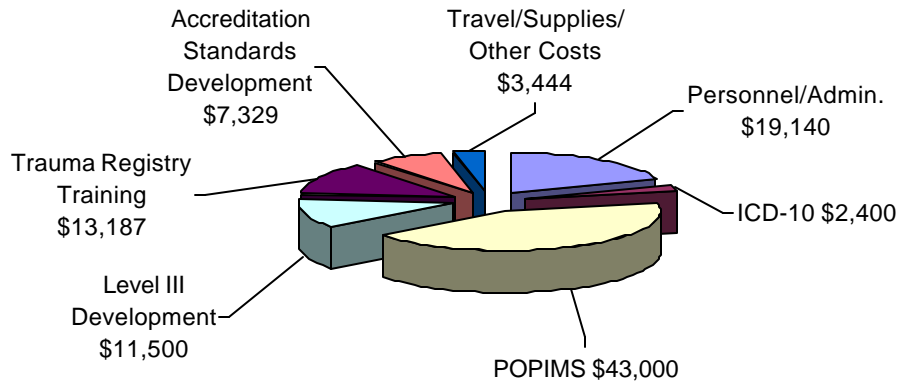
PA Trauma Systems Foundation 2004 Revenue



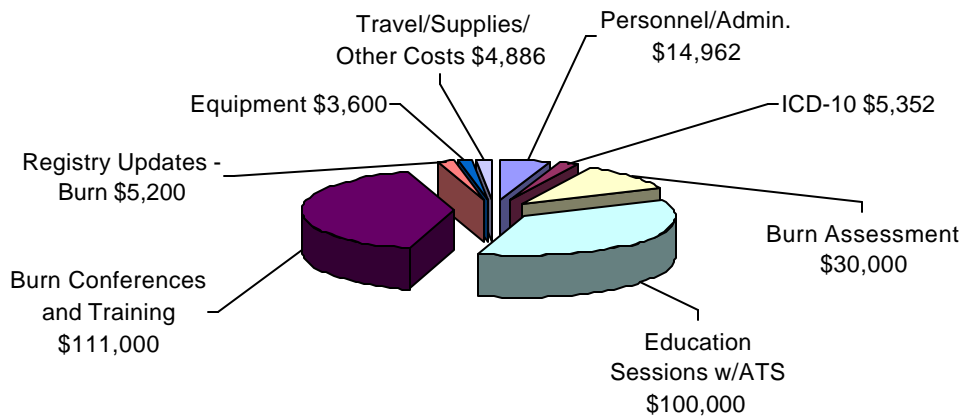
PA Trauma Systems Foundation 2004 Expenses



PA Trauma Systems Foundation Legislative Grant 7/1/04 - 6/30/05



PA Trauma Systems Foundation HRSA Grant 07/01/04 - 06/30/05



Pennsylvania Trauma Systems Foundation Completion of 2004 Goals

In 2004 the main focus of activity was aimed at trauma system development while continuing accreditation, registry, education, and other ongoing activities. The highlights of those activities are listed below.

Accreditation

- Role of accreditation coordinator filled by Kevin Burd, BA.
- Became member of National Foundation for Trauma Care to supplement networking and hiring efforts.
- Fourteen site surveys conducted.
- Four meetings conducted with Ad Hoc Committee to Develop Site Survey Outcome Measurements. Preventability classification system continues to be finalized with ongoing inter-rater reliability testing.

Trauma System Development

- Level III standards finalized through work of Level III Ad Hoc Committee.
- Level III education conducted in spring and fall for all potential centers.
- Worked with Department of Public Welfare (DPW) to create legislative funding applications for potential Level III trauma centers.
- Funding applications reviewed by PTSF staff and eligible institutions to DPW for funding. Criteria are being reviewed currently for FY'05 and eligible names will be submitted by December 1, 2004

Grants

- **HRSA Bioterrorism (\$100,000)**
 - Eight Advanced Burn Life Support courses conducted in PA in conjunction with the PaATS educating 170 providers.
 - AAAM AIS coding course conducted for 60 registrars.
 - Statewide Burn Assessment conducted with all hospitals in PA to determine their ability to provide burn care in a mass casualty incident. Outside research firm (Morrison Informatics) assisted in developing survey tool and data analysis.
- **Legislative Grant (\$100,00)**
 - Trauma System Development and statewide Performance Improvement enhancement (via Outcomes committee) was focus area.
 - Morrison Informatics hired to perform inter-rater reliability testing and refine mortality prevention classification system.
 - Digital Innovation supported efforts with POPIMS education and meeting attendance.

- Interactive POPIMS education conducted at PTSF fall conference.
- Level III standards developed via Level III committee.
- **Trauma Assessment Grant (\$33,000)**
 - TOPIC performance improvement course conducted with trauma program coordinators and EMS regional directors.

Statewide Education

- Annual Spring Conference conducted jointly with Society of Trauma Nurses conducting TOPIC program for coordinators and a coding workshop for registrars.
- EMS director/Coordinator session conducted in June 2004 to update groups regarding DOH protocols including ground/air destination protocols.
- PTSF Staff and Pa COT conducted annual Fall PTSF/PaACSCOT Conference attended by representatives from 26 trauma centers, 11 potential Level III trauma centers, and 7 statewide organizations.

Trauma Center specific education

- Registry educational visits were conducted with all Pennsylvania trauma centers including six new registrar orientations.
- Meetings were conducted with all trauma centers surveyed in 2004 with seven additional on-site visits to meet with new trauma center staff.

State and National organization Partners

The Pennsylvania Trauma Systems Foundation partners with many organizations to accomplish the work of trauma system development, education, and research. Some of the many organizations the Foundation collaborates with are:

- American Association for the Surgery of Trauma
- American Health Information Management Association
- American Trauma Society
- Central Pennsylvania Health Information Management Association
- Department of Health, Emergency Medical Services Office
- Eastern Association for the Surgery of Trauma
- Hospital and Health System Association of Pennsylvania and Section of Accredited Trauma Centers
- National Association for Health Care Quality
- Pennsylvania Chapter of ACS Committee on Trauma
- Pennsylvania Division of American Trauma Society
- Pennsylvania Emergency Health Systems Council
- Pennsylvania Health Information Management Association
- Pennsylvania State Nurses Association:
- Pennsylvania American College of Emergency Physicians
- Society of Trauma Nurses

PTSF Staff Professional Activities

Juliet Geiger

- Educational Advancement: Leadership Harrisburg Area Class of 2005
- Presentations:
 - Hershey Medical Center, EMS Conference, “Trauma System Development in Pennsylvania.”
 - PTSF Fall Conference, sessions on “Level III trauma standards” and “Application for site survey”.
 - Level III Spring Education session: “Trauma System Development in Pennsylvania”
- Professional memberships: EAST, AAST, STN, PSNA
- Committee/Board memberships: PEHSC Board of Directors, PEHSC Nurse Advisory Council

Mary Ann Spott

- Educational Advancement:
 - Completed MBA.
 - Rural Leadership Program Class of 2005
- Professional memberships: NAHQ, AHIMA, PHIMA, CPHIMA
- Committee/Board memberships:
 - Chairman of PEHSC Data Committee.
 - Member of PEHSC EMSC and Research Committees.
- Presentations:
 - PTSF Fall Conference, session on trauma registry.
- Awards:
 - Pennsylvania House of Representatives Citation of Leadership
 - Recognition Award from Rural Health Association
 - Capital College International Study Award to attend MBA course in France.
 - Commonwealth of Pennsylvania Legislative Scholarship
 - Pennsylvania Rural Health Association Scholarship
 - Gateway Health Plan Scholarship

Nathan McWilliams

- Educational Advancement: MPA Class of 2007.
- Professional memberships: AHIMA, PHIMA, CPHIMA
- Committee/Board memberships:
 - Member of Central Pennsylvania Health Information Management Association and incoming President.
- Presentations:
 - Spring and Fall Conference registry topics
 - University of Pittsburgh trauma registry class.

2004 PTSF Committee Accomplishments

Ad Hoc Burn Committee

- Developed reports which will be integrated into the institution version of the COLLECTOR Software for 2005 as well as be included in the PTOS quarterly report.

Ad Hoc Committee to Develop Site Survey Outcomes

- Refined criteria for classifying mortalities according to preventability.
- Tested inter-rater reliability on mortality criteria among committee members.
- Conducted an interactive presentation at the fall conference along with a prospective study on measuring responses before and after education on the use of the criteria.
- Utilizing an outside research firm for this project.

Ad Hoc Level III Committee

- Drafted Level III standards for trauma center accreditation.
- Provided education to potential level III centers at two forums.

Bylaws Committee

- Reviewed bylaws during annual meeting and will be submitting recommendations for quorum number change to Board of Directors for review at December meeting.

Research Committee

- Committee reconvened in September for first meeting after four year hiatus.
- Questionnaire developed and disseminated to all hospitals on regarding how the research committee should function in the future.
- Reviewed research request for development of a report for one hospital's prospective study involving motorcycle crashes.
- Initiated discussion on development of a new PTOS data request application.

Registry Committee

- Updated the PTOS data definitions and provided responses to questions from individual trauma centers.

Standards

- Revised standards to coincide with ACS standards criteria including CME revisions, and nursing certification revisions.
- Continuing to discuss PTSF oversight of Locum Tenens physicians and potential revisions of standards in this area.

Pediatric Standards

- Developed recommendations for pediatric additions to Level III standards.

PENNSYLVANIA TRAUMA SYSTEMS FOUNDATION
2004 BOARD OF DIRECTORS

NOMINATING ORGANIZATION

BOARD MEMBER

American College of Emergency Physicians – PA Chapter	Richard S. MacKenzie, MD**
Hospital & Healthsystem Association of Pennsylvania	Tom Lewis
Hospital & Healthsystem Association of Pennsylvania	Marion McGowan**
Hospital & Healthsystem Association of Pennsylvania	John Wiercinski
Hospital & Healthsystem Association of Pennsylvania	William F. Vanaskie**
Hospital & Healthsystem Association of Pennsylvania	Margaret McGoldrick
Pennsylvania Emergency Health Service Council	Arthur Hayes, MD, FACEP
Pennsylvania Medical Society (ACSCOT)	Andrew Peitzman, MD, FACS*
Pennsylvania Medical Society (At Large)	Jack Wilberger, MD
Pennsylvania Medical Society (At Large)	John Spence Reid, MD**
Pennsylvania Medical Society (At Large)	Jeffrey Bednarski, MD, FACS
Pennsylvania State Nurses Association	Mary Kate Fitzpatrick, RN, MSN*
Pennsylvania State Nurses Association	Beth Ann Savage, RN, MSN**
Pennsylvania Osteopathic Medical Association (EMS Group)	Gary Welch, DO, FACOS*
Pennsylvania DOH EMS Office	Douglas F. Kupas, MD, Interim

NOMINATING ORGANIZATION

Majority Chairman
House Health and Welfare Committee

Minority Chairman

House Health and Welfare Committee

Majority Chairman
Senate Public Health and Welfare Committee

Minority Chairman
Senate Public Health and Welfare Committee

BOARD MEMBER

Mary Ann Dailey, RN
(designee of Rep. Kenney)

Jake Wheatley

(designee of Rep. Oliver)

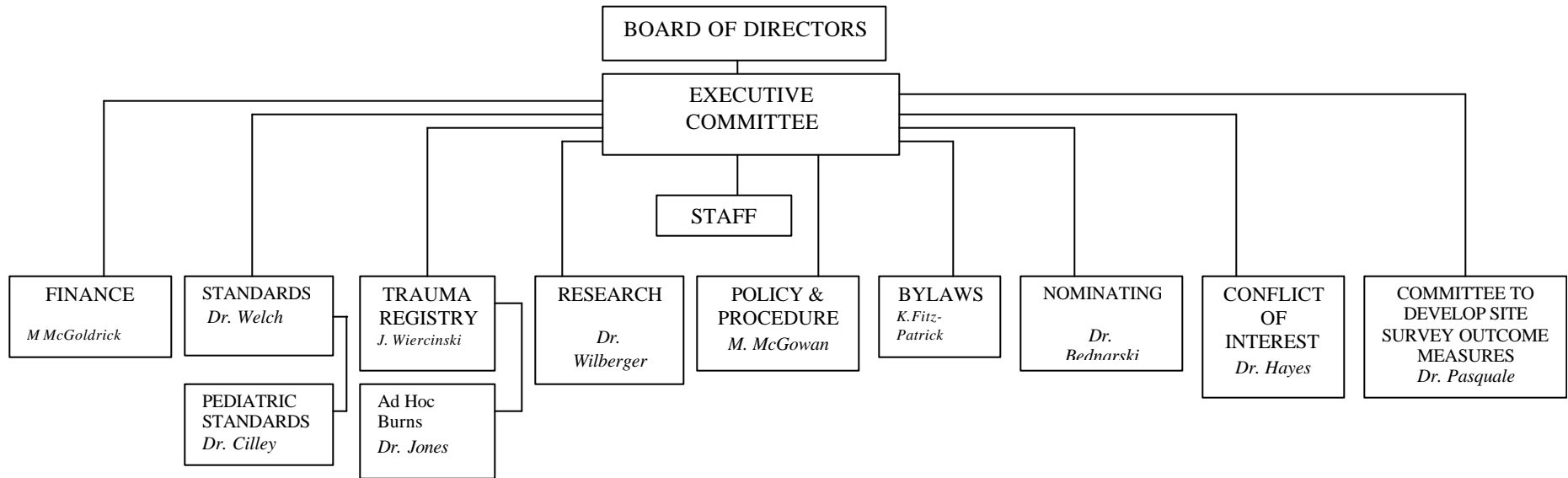
Harold Mowery

Vincent Hughes

* *Current officer of the Board*

** *New Board member for 2004*

2004
COMMITTEES OF THE PENNSYLVANIA TRAUMA SYSTEMS FOUNDATION



2005
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