

## Goals

- Trauma as a public health problem here in the US and Alaska
- Trauma systems- Treating the severely injured.
- American College of Surgeons Review: Trauma Care in Alaska.
- The Future.

## Introduction

"If a disease were killing our children at the rate unintentional injuries are, the public would be outraged and demand that this killer be stopped."

Former US Surgeon General

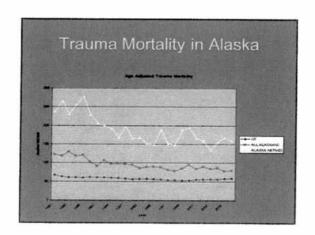
## Introduction

- Injury is a major public health problem
  - . Leading cause of death in 1st 4 decades of life
  - Leading cause of loss of productivity
- Despite the magnitude little public focus
- The "neglected disease" since 1966
- Significant progress in individual patient care
- -Trauma systems shown to save lives

## Trauma in Alaska

- Second highest trauma mortality in the US
- Leading cause of death age 1-44
- 400-500 alaskans die each year.
- Over 5000 hospital admissions
- Over 1000 with permanent disability

			Ca	Carried No.	-		-	STREET, STREET,			
					Apr.	January.	16.6				
-	<1	114	5-0	10-14	15-24	25-34	35.44	45-54	55-64	65+	All
1	4			-	4			-1-	- Z		ric
2		-	7	-				- <del>1</del>	2 Table 2017	0 Mari	1201
*	Chapter			· Print	TO STATE OF		200 A			Strate:	
+					arment.	-	111		1-2-		170
4				-	-	A Thomas and the Salanda	1-7-mm 1-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2		12002		100
•	-				-	min	-		-	7	
7	+				1		line	-	~***************	253	Tages
4	华				Charles War		-:	ingjir.	7	4	
	200				i.		4	Var		-	100
0	200						*Anna	Total .			TOWNS



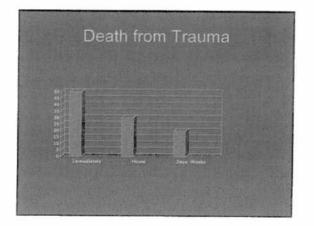
## Trauma in Alaska

- patients over \$73 million.

Wounded in the remote jungle or nice paddy of Vietnam, an American citizen has a better chance for quick definitive surgical care by board certified specialists than were he hit on a highway near his home in the continental United States. Even if he were struck immediately outside the emergency room of most United States hospitals rarely would he be given such prompt, expert operative care as routinely is furnished from the site of combat wounding in Vietnam.

## Trauma Systems

hospitals, personnel, and public service agencies with a preplanned response to caring for the injured



- ◆Patient transport

## Facilities-Trauma Centers

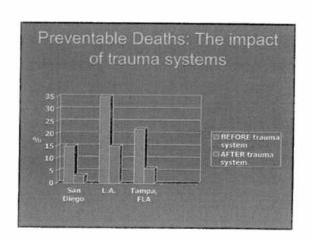
- Level II Definitive subspecialty care, surgery, orthopedics, neurosurgery.
   Level III- General surgery, orthopedics,

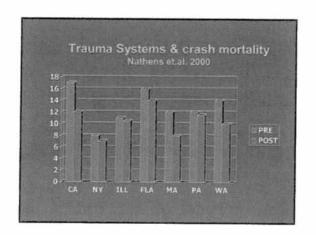
## Trained Personnel

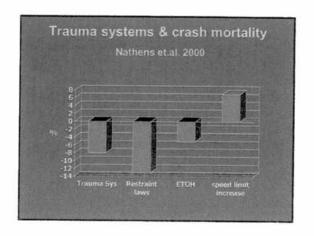
- TNCC
- PHTLS

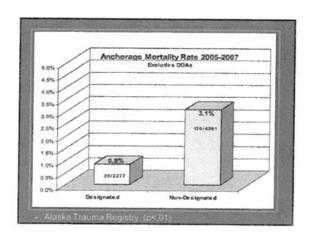
## Transport and triage

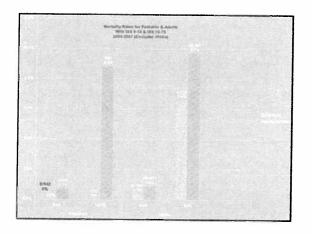
- Guidelines that take into account local resources and capabilities.



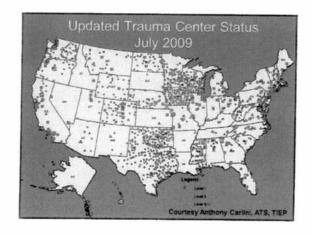


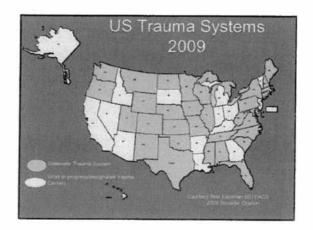


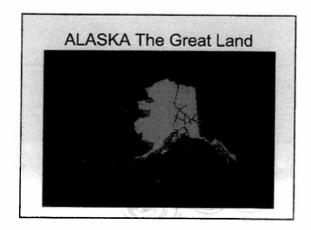




	1991	2002	2009			
Level I	165	190	199			
Level II	209	263	269			
Level III	76	251	362			
Level IV-V	21	450	748			
Total	471	1,154	1,578			
Pediatric Only			41			







## Trauma Systems and the Public

- 2004 Harris poll to assess public
   Knowledge and perceptions on trauma
   and trauma care.
- Most Americans are not aware that injury is the leading cause of death for children, youth, and adults under the age of 34.

## Harris Poll

After hearing a description of a trauma center, almost all Americans feel it is extremely or very important to be treated at a trauma center in the event of a lifethreatening injury.

## Harris Poll

 Almost 9 out of 10 of Americans feel tha having a trauma center nearby is as important as or more important than having a Fire Department or Police Department

## Harris Poll

- At the time of the survey although 75% thought there was a trauma system where they lived only about 20% actually lived in an area covered by a trauma system.
- Nearly all Americans believe that if they had a serious or life-threatening injury, they would be taken to the hospital that is best equipped to handle their specific injury in less than 1 hour.

## Harris Survey- Conclusions

- The majority of the public thinks it is important to have a trauma system. (It is a nonpartisan issue.)
- Most people think they have it already
- Many who think they are covered by a regional system are not.

## Alaska Trauma System

- 1993 statute- EMS authority for designating trauma centers created
- Hospital participation voluntary.
- Standards for trauma center designation follow American College of Surgeons criteria.

## Alaska Trauma System

Verification of compliance by outside reviewers for Level I, II, III

In-state review for Level IV

## Current Status -16 Years Later

## 24 hospitals in Alaska Verified / Certified

- 1 Level II A
- Level IV centers- NSH -MEH YKHC -Si
- 9 other facilities with reviews or consultations.

## Non-Verified

- 2 centers providing care for multiple trauma patients
- . 6 centers that provide surgical capabilities
- 2 military hospitals

## Alaska Trauma Facilities

- Alaska -Only state without a designated Level I or il trauma center that serves the majority of the population.
- Anchorage is the largest city in the US without a designated Level I or II center for the majority of the population.

## Insanity

Insanity is doing the same thing in the same way and expecting a different outcome."

- Old Chinese Proverb

# State of Alaska DHSS

- Reginald A, Burton, MD FACS
  Jane Ball, RN, DrPH
  Samir M, Fakhry, MD FACS
  Holly Michaels

## **Executive Summary**

## Advantages & Assets

- -One center maintains ACS Level II verification standards and others have toward verification.
- Alaska Trauma Registry- all 24 acute care hospitals provide data.
- Injury prevention activities are well established.

## Objective

- in the graduated development of an inclusive trauma system for Alaska
- -Multidisciplinary review of the trauma
- -17 states have been reviewed

## Advantages & Assets

- Committed individuals who use their time and expertise every day to serve Alaska citizens
- Extensive networks for transport
- -3 large medical centers with extensive
- -Large Level I trauma center in Seattle pediatric trauma patients

## Challenges and Vulnerabilities

- No trauma system plan
- -Geography / Weather / Remote and isolated
- Trauma system issues have limited visibility within state government.

## Challenges and Vulnerabilities

Public not aware of trauma system issues.

Limited human resources

Few incentives for hospitals to participate.

No statewide evaluation of system performance.

## Trauma Care in Alaska 2009

" There are two healthcare systems for injured patients. One for Alaska natives that adheres to national standards and another for the majority of the population"

ACS LOT Assaul Francis Systems Street

## **Executive Summary**

"Several Alaska Native facilities have sought and achieved ventication and designation as trauma centers. To date few of the facilities serving the majority population have made a similar commitment to achieving nationally recognized standards of trauma care."

ACIS COT Alaska Trauma Systems Review 11/2008

## Recommendations: Coalition Building and Community Support

Develop and disseminate public information about the challenges in providing trauma care and the status of the trauma system in the state for all Alaskans

## Recommendations: Definitive Care Facilities

- Establish, as soon as practical, a second Level II
  Trauma Center in Anchorage in accordance with ACS
  criteria to meet the existing volume and acuity
  demands.
- Mandate participation of all acute care hospitals in the trauma system within a 2 year time frame with trauma center designation appropriate to their capabilities.

## Recommendations: Definitive Care Facilities

- Study pediatric trauma care needs and establish one or more in-state centers of excellence in pediatric trauma care.
- Determine a method of providing financial support for hospitals designated/certified by the state as trauma centers to assist with uncompensated care and the cost of readiness

## Recommendations: System Coordination and Patient Flow

 Implement standardized prehospital triage and trauma activation protocols customized to the three response areas (Anchorage, Southeast, and the bush).

## Recommendations: Financing

- Provide state funding to hire a fulltime trauma system manager.
- Determine a method of providing financial support for hospitals designated/certified by the state as trauma centers to assist with uncompensated care and the cost of readiness.

## Themes

- You are closer than you think many of the components are already in place.
- Alaska is a unique environment different from anywhere else
- You have developed innovative solutions to your unique challenges.
- Despite differences amongst stakeholders, all agree with the need for a consensus developed and integrated trauma system.

## ACS Recommendations-Actions

- Commitment by DHSS to create a trauma manager position and develop a statewide trauma plan
- Trauma Systems Review Committee working to develop metrics to measure trauma system performance.
- Legislation to create incentives for facilities to participate

## Alaska Trauma Systems Review Committee

- MDs, nurses, administrative, and prehospital representation
- Oversight- Trauma Registry
  - 4 evel IV Trauma verification
  - EMS triage and interfacility transfer quidelines
  - Trauma system performance improvement.

## Alaska Trauma System: Facility Participation

- Increasing facility participation is essential
- "Carrots and/or sticks"
- ACS recommends both
- Mandatory participation and payment for uncompensated care

## House and Senate Bills 168 and

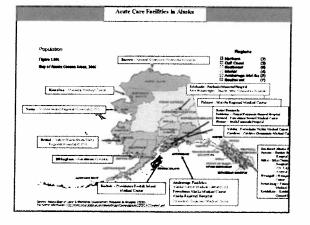
- Coghill(R) and Senator Bettye Davis(D)

## Barriers

- Not needed " we do fine" No financial incentive to do it. More rules and regulations.

- Pearl Harbor. A sudden crisis causes fundamental change.
- The Tipping Point: Pressure builds to an
- <u>Glacial Erosion</u>: A steady growth or pressure that is hard to resist or ignore.

- S. 168 and 169.



## Vision

trauma from injury prevention through acute care and rehabilitation.



