



Characteristics of a State System: New York Reporting System

Advisory Committee

Blood Safety and Availability

Department Health and Human Services

Jeanne V. Linden, M.D., M.P.H.

Wadsworth Center

New York State Department of Health



New York State Reporting System

- ◆ Established 1989
- ◆ Mandatory
- ◆ 240 facilities + 100 LTS
- ◆ Reports confidential per law
- ◆ TA IDs and tx errors
- ◆ Reportable if unit released (+/- tx)
- ◆ Considers underlying factors/root causes
- ◆ Assist facilities with evaluation if needed
- ◆ Some feedback given



Findings



Frequency of Erroneous Transfusion (RBCs) in New York, 1990-1999

	<u>Number</u>	<u>Frequency</u>
ABO-incompatible	237	1/38,000
ABO-compatible	221	1/41,000
Total	462	1/19,000
Adjusted Total	659	1/14,000
Fatal AHTR	5	1/1,800,000



Sources of Transfusion-associated Errors NYS, 1990-1999

<u>Nature of Error</u>	<u>No.</u>	<u>(%)</u>
Non-blood bank error alone	259	(56)
Blood bank error alone	135	(29)
Compound error	67	(15)
Could not be determined	1	(0.2)
Total	462	(100)



Sources of Transfusion-associated Errors NYS, 1990-1999

<u>Nature of Error</u>	<u>No.</u>	<u>(%)</u>
Non-blood bank error alone		
Identification error	171	(37)
Phlebotomy error	62	(13)
Incorrect order sent	22	(5)
Other	4	(1)
Total	259	(56)



Contributory factors identified

Bypass safeguards (removal of wristband)

Preprinted labels for tubes

Same/similar names on floor or in OR

Consecutive identifiers

Telephone/verbal communications

Faxed communications

Manual procedures for release



Systems failures identified

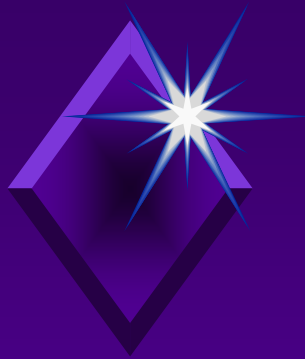
Lack of delineation of responsibilities

Absence of proper SOPs

Absence of proper training

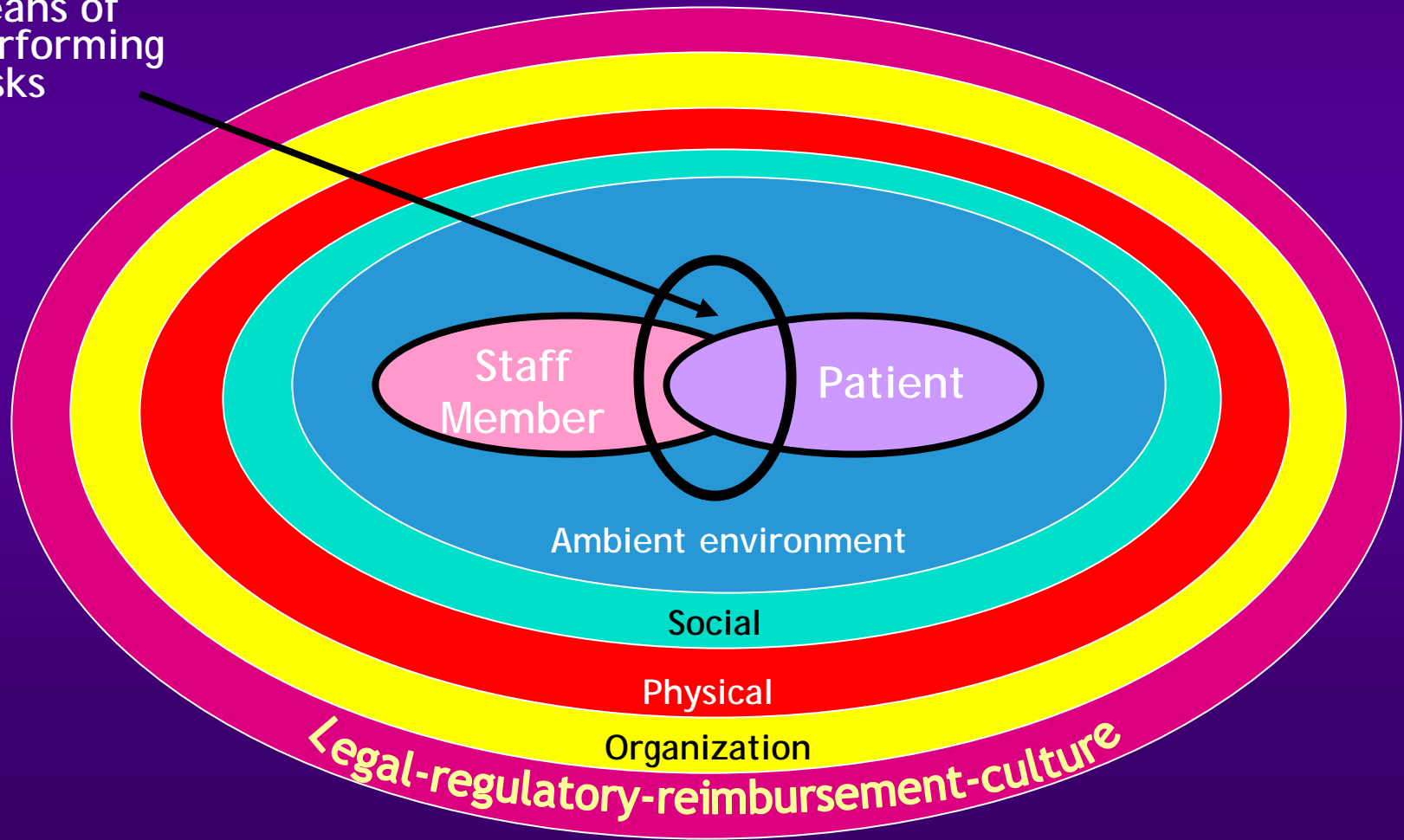
Insufficient training in recognizing AHTR

Unapproved equipment available for use

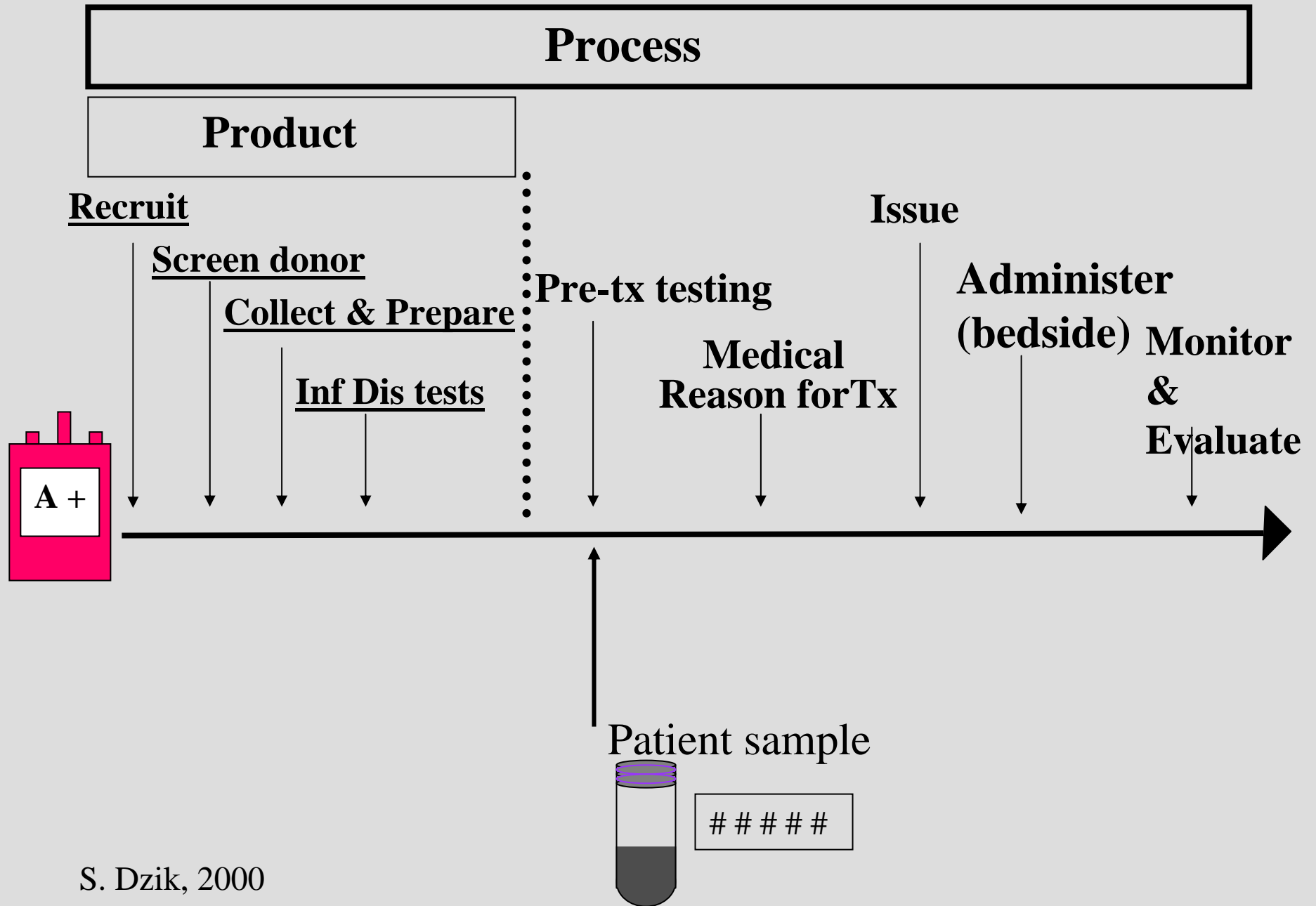


Context as Systems of Contributory Factors

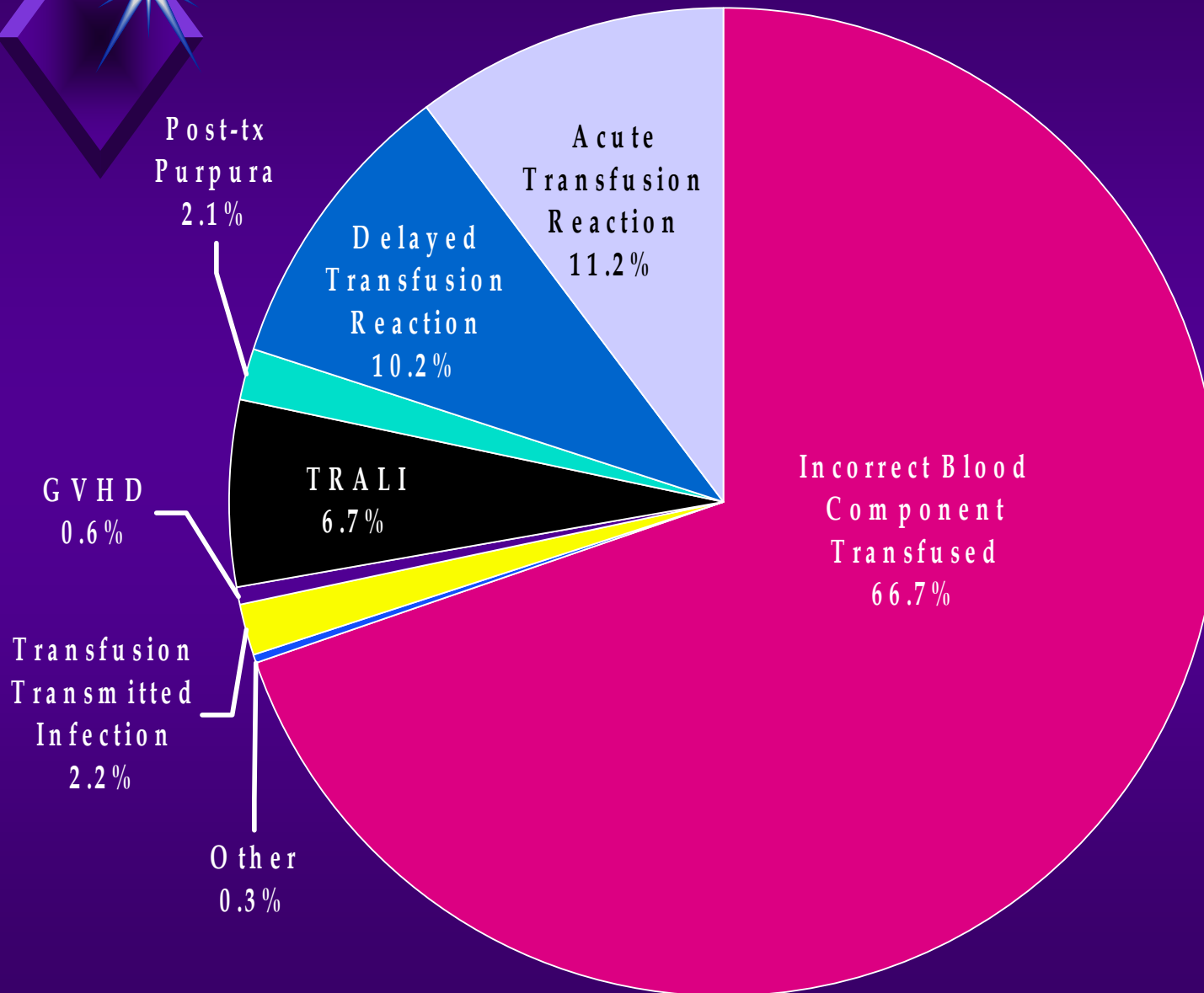
Means of performing tasks

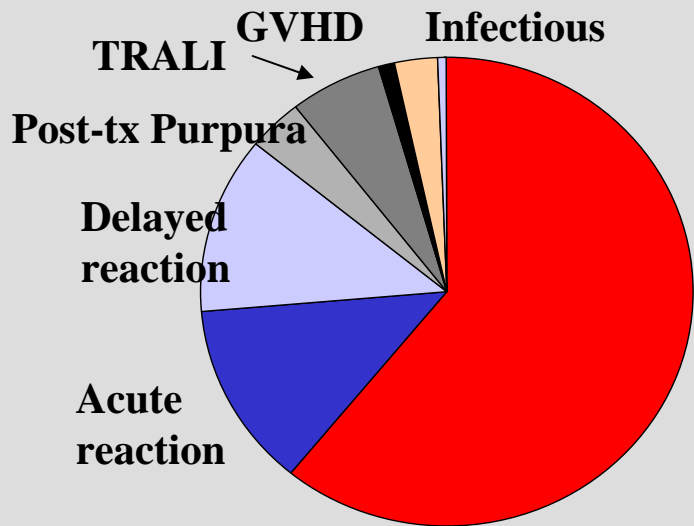


Safe Transfusion: Processes not just product.

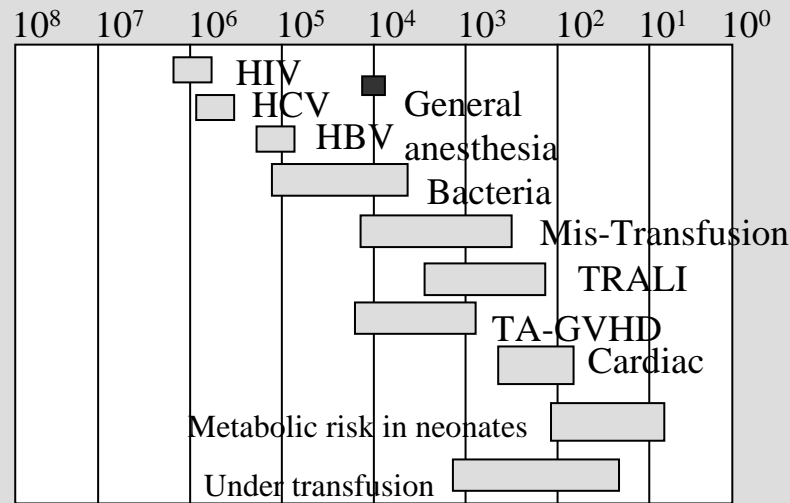


SHOT: Cumulative Data 1996 - 2004

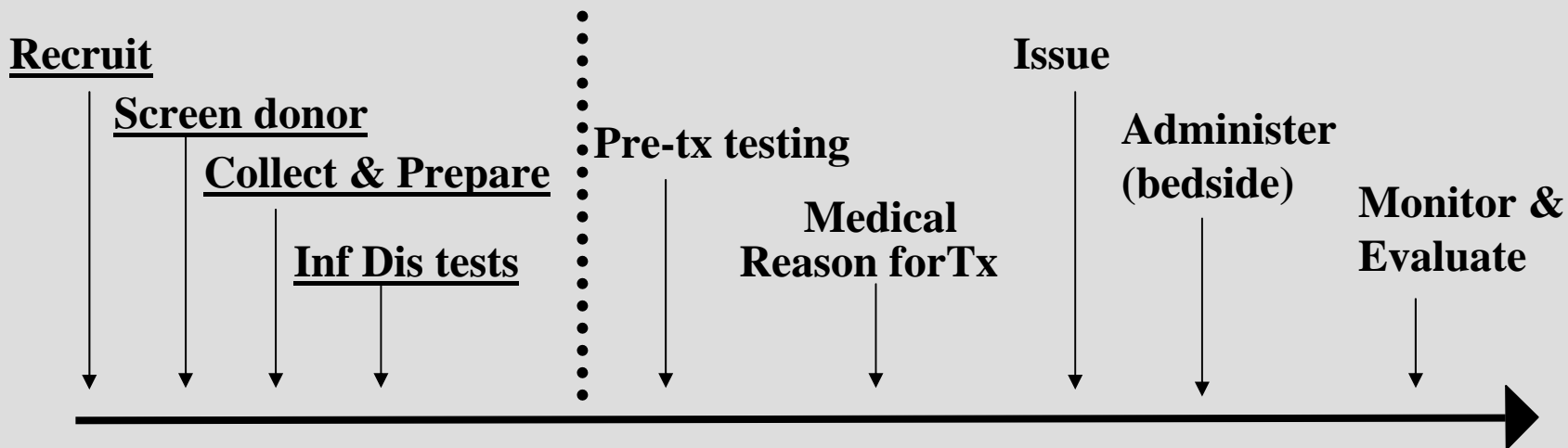




Incorrect blood transfused



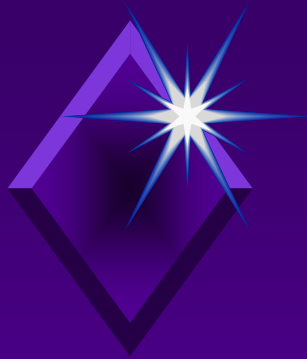
Transfusion Safety: A new priority in transfusion medicine





Hospital-acquired infections surveillance effort

- ◆ Law passed 2005
- ◆ Provides for confidential reporting
- ◆ Requires results reporting (aggregate then facility-specific)
- ◆ Results provided for Department staff
- ◆ Resources to fund pilot facility projects



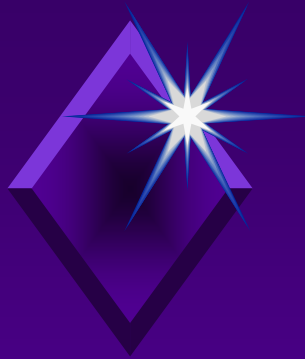
Goals

- ◆ Develop and implement meaningful reporting system
- ◆ Ultimate goal is prevention
- ◆ System will evaluate interventions, risk factors, risk adjustment strategies



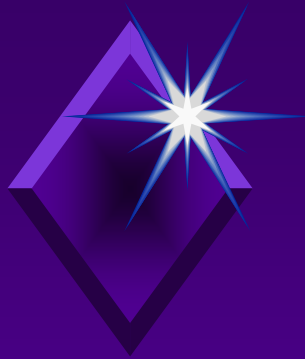
Evaluation of existing systems

- ◆ Existing administrative data not useful (e.g. D/C, billing data)
- ◆ Standard case definitions necessary
- ◆ Standard methods/protocols necessary
- ◆ Need to consider post D/C detection
- ◆ Most surgery output – need to capture



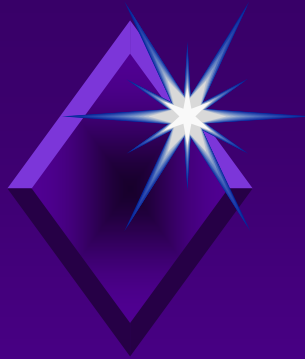
Reporting System

- ◆ CDC's National Healthcare Safety Network (NHSN)
 - ◆ Standard definitions
 - ◆ Standard surveillance methods
 - ◆ Standardized risk assessment
 - ◆ Standard protocols
 - ◆ National benchmark/comparison data



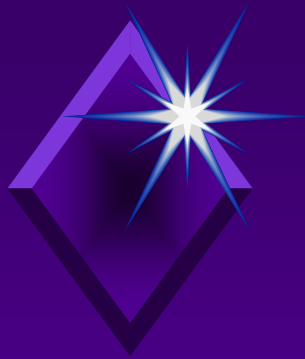
Benefits of NHSN

- ◆ Hospitals can compare to larger number of facilities
- ◆ Access to broad array of patient and employee infection-related indicators
- ◆ NYSDOH only has access to information specifically granted by facility
- ◆ Hospital sees exactly what DOH sees
- ◆ Bi-directional flow of information is a priority
- ◆ Benefit to facilities in networks
 - ◆ National system so more likely to be adopted by neighboring states if legislation is passed elsewhere
 - ◆ Group functionality can be used for multiple purposes



Indicators Selected

- ◆ Central line-associated sepsis in ICUs
- ◆ Surgical site infections
 - ◆ CABG
 - ◆ Colon surgery

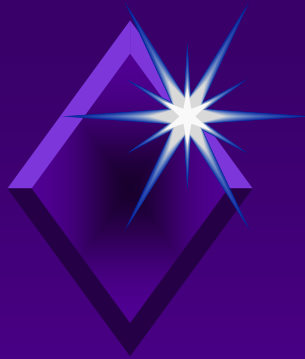


Status

- ◆ Currently training
- ◆ Reporting to begin 1/1/07
- ◆ First 150 procedures
- ◆ Report on pilot after one year
- ◆ Eventual facility-specific reporting
(in some fashion TBD)



Conclusions/Recommendations ***(IMHO)***



Attributes

- ◆ Thorough, sufficient detail to be meaningful
- ◆ Must include entire tx process, all players
- ◆ Post D/C events require different approach
- ◆ Consider root causes, underlying factors
- ◆ Participants may need assistance/prompting
- ◆ Existing data sets unlikely to be helpful



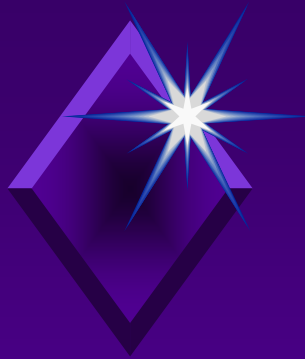
Attributes (cont.)

- ◆ Standardized definitions
- ◆ Should facilitate analysis
- ◆ Should result in opportunities for risk reduction/intervention
- ◆ Impact measurable



Compliance/participation

- ◆ Participants need to buy in (all)
- ◆ Not be punitive/used for enforcement
- ◆ Data not releasable other than aggregate
- ◆ System should be easy to use
- ◆ Resources important
- ◆ Reported in format needed



Focus - most important issues

- ◆ New issues requiring data
- ◆ Most frequent problems
- ◆ Problems amenable to intervention (measurable)