

---

**EMRA/FERNE**  
**ED Documentation Session:**  
**How Can Electronic**  
**Records Help Improve**  
**Clinical Documentation?**

Kevin M. Baumlín, MD



---

**Kevin M. Baumlín, MD**

*Associate Professor &*  
*Director of Informatics*

*Department of Emergency Medicine*  
*Mount Sinai School of Medicine*  
*New York, NY*

Kevin M. Baumlín, MD



---

**Disclosures**

- Sunrise Solutions Group, Inc
  - President, Founder
    - Healthcare IT and Process Improvement Solutions consulting group

Kevin M. Baumlín, MD



---

**Why do we chart?**

- Document care given to a patient....

Kevin M. Baumlín, MD



---

**Why do we chart?**

- Create a billing document
- Communicate with other stakeholders care events
- Protect our \_\_\_\_\_
  - Medico- legal concerns

Kevin M. Baumlín, MD



---

**The paper chart**

- Poor quality documentation
- Prompts
  - None
  - (few or generic)
- Difficult to & retrieve
- Difficult to extract information (data)



Kevin M. Baumlín, MD



## The Electronic Chart

- High quality—
  - complete
- Integrated decision support
- Easy to store and retrieve
- Ability to extract data

Kevin M. Baumlín, MD



## How can electronic records help?-- quality clinical care

- Documentation Templates
- Integrated Decision support
  - Risk Management
    - Ask the correct questions
  - Regulatory Requirements
  - Guideline Adherence
- Order Sets
  - Labs, rads and medications

Kevin M. Baumlín, MD



## How about billing/coding?

- Level of Service Calculators
  - End of documentation
  - As you go – Real time
- Procedure templates
  - US... etc
- Critical Care – the correct phrase....

Kevin M. Baumlín, MD



## HPI Templates

- *'The ischemic stroke onset time has been confirmed in the following way, suggesting the three hour window for IV tPA has not expired'*
- HPI templates-
  - Customize disease specific templates

Kevin M. Baumlín, MD



## HPI Template Principles

- Content enough for level 5 visit
- All inclusive of clinical course of presenting complaint
- Incorporate high risk data elements
- Incorporate reminders and prompts to support clinical decision making
- No hard stops– don't torture docs!

Kevin M. Baumlín, MD



Kevin M. Baumlín, MD



# FERNE /EMRA 2008 ACEP SA ED Documentation Meeting

## Optimal ED Documentation Using the Electronic Medical Record

### Kevin Baumin, MD

Charting

Bed: NORTH 518  
 Sex: Age: FE7  
 Weight: 150

BP: 154/75  
 Resp: 18  
 O2: 96%  
 Pulse: 103  
 Temp: 98.3  
 Pain: 0

Complaint: Chest Pain  
 Orders: S C F A P V  
 Base:

More Details Button ss

04/27/2008 10:25 Batts, RN, Rhoades  
 10:25 Batts, RN, Rhoades

CONCOMITANT SYNDROME Min 04/27/2008 10:08 Bar, Len

04/27/2008 10:15 Bar, Len, MD, AB  
 27/2008 10:15 Bar, Len, MD, AB

STROKE TEAM ALERT

Was Stroke Team Activated? Yes No

HISTORY

Parent/Family Congenitor EMS Police Other

QUALITY

Assessment Accurate Inadequate Incomplete Inapplicable

ASSOCIATED WITH

Back Pain Headache Seizure  
 Vomiting Fever Chest pain Populations

COMORBIDITIES

History of DVT Anticoagulated Seizure  
 Cancer PVD Prior CABG/AHA Diabetes Abuse Fertilization

Kevin M. Baumin, MD

Charting

Bed: NORTH 518  
 Sex: Age: FE7  
 Weight: 150

BP: 154/75  
 Resp: 18  
 O2: 96%  
 Pulse: 103  
 Temp: 98.3  
 Pain: 0

Complaint: Chest Pain  
 Orders: S C F A P V  
 Base:

More Details Button ss

04/27/2008 10:25 Batts, RN, Rhoades  
 10:25 Batts, RN, Rhoades

CONCOMITANT SYNDROME Min 04/27/2008 10:08 Bar, Len

04/27/2008 10:15 Bar, Len, MD, AB  
 27/2008 10:15 Bar, Len, MD, AB

STROKE TEAM ALERT

Was Stroke Team Activated? Yes No

HISTORY

Parent/Family Congenitor EMS Police Other

QUALITY

Assessment Accurate Inadequate Incomplete Inapplicable

ASSOCIATED WITH

Back Pain Headache Seizure  
 Vomiting Fever Chest pain Populations

COMORBIDITIES

History of DVT Anticoagulated Seizure  
 Cancer PVD Prior CABG/AHA Diabetes Abuse Fertilization

Kevin M. Baumin, MD

Charting

Bed: NORTH 518  
 Sex: Age: FE7  
 Weight: 150

BP: 154/75  
 Resp: 18  
 O2: 96%  
 Pulse: 103  
 Temp: 98.3  
 Pain: 0

Complaint: Chest Pain  
 Orders: S C F A P V  
 Base:

More Details Button ss

04/27/2008 10:25 Batts, RN, Rhoades  
 10:25 Batts, RN, Rhoades

CONCOMITANT SYNDROME Min 04/27/2008 10:08 Bar, Len

04/27/2008 10:15 Bar, Len, MD, AB  
 27/2008 10:15 Bar, Len, MD, AB

STROKE TEAM ALERT

Was Stroke Team Activated? Yes No

HISTORY

Parent/Family Congenitor EMS Police Other

QUALITY

Assessment Accurate Inadequate Incomplete Inapplicable

ASSOCIATED WITH

Back Pain Headache Seizure  
 Vomiting Fever Chest pain Populations

COMORBIDITIES

History of DVT Anticoagulated Seizure  
 Cancer PVD Prior CABG/AHA Diabetes Abuse Fertilization

Kevin M. Baumin, MD

Charting

Bed: NORTH 518  
 Sex: Age: FE7  
 Weight: 150

BP: 154/75  
 Resp: 18  
 O2: 96%  
 Pulse: 103  
 Temp: 98.3  
 Pain: 0

Complaint: Chest Pain  
 Orders: S C F A P V  
 Base:

More Details Button ss

04/27/2008 10:25 Batts, RN, Rhoades  
 10:25 Batts, RN, Rhoades

CONCOMITANT SYNDROME Min 04/27/2008 10:08 Bar, Len

04/27/2008 10:15 Bar, Len, MD, AB  
 27/2008 10:15 Bar, Len, MD, AB

STROKE TEAM ALERT

Was Stroke Team Activated? Yes No

HISTORY

Parent/Family Congenitor EMS Police Other

QUALITY

Assessment Accurate Inadequate Incomplete Inapplicable

ASSOCIATED WITH

Back Pain Headache Seizure  
 Vomiting Fever Chest pain Populations

COMORBIDITIES

History of DVT Anticoagulated Seizure  
 Cancer PVD Prior CABG/AHA Diabetes Abuse Fertilization

Kevin M. Baumin, MD

Charting

Bed: NORTH 518  
 Sex: Age: FE7  
 Weight: 150

BP: 154/75  
 Resp: 18  
 O2: 96%  
 Pulse: 103  
 Temp: 98.3  
 Pain: 0

Complaint: Chest Pain  
 Orders: S C F A P V  
 Base:

More Details Button ss

04/27/2008 10:25 Batts, RN, Rhoades  
 10:25 Batts, RN, Rhoades

CONCOMITANT SYNDROME Min 04/27/2008 10:08 Bar, Len

04/27/2008 10:15 Bar, Len, MD, AB  
 27/2008 10:15 Bar, Len, MD, AB

STROKE TEAM ALERT

Was Stroke Team Activated? Yes No

HISTORY

Parent/Family Congenitor EMS Police Other

QUALITY

Assessment Accurate Inadequate Incomplete Inapplicable

ASSOCIATED WITH

Back Pain Headache Seizure  
 Vomiting Fever Chest pain Populations

COMORBIDITIES

History of DVT Anticoagulated Seizure  
 Cancer PVD Prior CABG/AHA Diabetes Abuse Fertilization

Kevin M. Baumin, MD

Charting

Bed: NORTH 518  
 Sex: Age: FE7  
 Weight: 150

BP: 154/75  
 Resp: 18  
 O2: 96%  
 Pulse: 103  
 Temp: 98.3  
 Pain: 0

Complaint: Chest Pain  
 Orders: S C F A P V  
 Base:

More Details Button ss

04/27/2008 10:25 Batts, RN, Rhoades  
 10:25 Batts, RN, Rhoades

CONCOMITANT SYNDROME Min 04/27/2008 10:08 Bar, Len

04/27/2008 10:15 Bar, Len, MD, AB  
 27/2008 10:15 Bar, Len, MD, AB

STROKE TEAM ALERT

Was Stroke Team Activated? Yes No

HISTORY

Parent/Family Congenitor EMS Police Other

QUALITY

Assessment Accurate Inadequate Incomplete Inapplicable

ASSOCIATED WITH

Back Pain Headache Seizure  
 Vomiting Fever Chest pain Populations

COMORBIDITIES

History of DVT Anticoagulated Seizure  
 Cancer PVD Prior CABG/AHA Diabetes Abuse Fertilization

Kevin M. Baumin, MD



## **Conclusions**

---

- **Electronic Records can help**
- **Be involved**
  - **Work with EDIS/IT teams to design what you need**
- **Sunshine– display- data**
- **Nudge**
  - **Consolidate important information and prompt users to change behavior**

Kevin M. Baumlín, MD



## **Questions?**

---

**[www.FERNE.org](http://www.FERNE.org)**

**Kevin.baumlín@mssm.edu**

Kevin M. Baumlín, MD



ferne\_emra\_2008\_acep\_ed\_doc\_baumlin\_elect\_record\_102908\_final