GA EMS Agencies Data Discussion on Validation Rules

OEMS/April 13th-14th
Cassie Longhart/Dipti Patel
Agenda

- Upcoming Validation Rules
- Current Issues with Validation Rules and Data Submissions
- Last Known Well Time Data Element Explanation
- Expectations of EMS Agencies and ePCR Vendors
- NOT Values Description Definitions
NEMSIS & Georgia Resources

• NEMSIS GA State Page
  o Resources available on this page:
     GA Change Log (Data Managers and ePCR vendors are requested to review this)
     GA Facilities Excel Spreadsheet
     GA Validity Rule Excel Spreadsheet (the full definition and description of each validation rule number can be found in this spreadsheet)
     GA Data Dictionary
     GA State Data Set
     Schematron File

• NEMSIS Version 3.4 Data Dictionary

• Georgia State GEMSIS Website
  o https://dph.georgia.gov/EMS/gemsis
UPCOMING VALIDATION RULE CHANGES
Definitions/Terms

• **Validity:** the complete and accurate validation of the data in each PCR

• **Points (Validity):**
  - Range of 1-5
  - Points are deducted from the total validation score of the individual PCR
  - This score represents the overall completeness of the PCR

• **Warning:** data is not complete or logical for the data element
  - Points deducted for warnings
  - Not Complete - Date LKWT not recorded for a Stroke/Trauma Patient
  - Logical - Time at hospital is prior to time depart scene

• **Error:** Required state/national data element is incomplete or not valid
  - GEMSIS Elite user – PCR will not meet closed call rules and/or post
  - 3rd Party PCR systems – The PCR data will fail import to GEMSIS Elite
GA Rule 988 – Rule revised to only trigger when the temperature method is not recorded when the vitals were taken by this unit - so vitals taken before this EMS unit arrives are excluded from this rule
GA Rule 2514 – Rule revised to only trigger when the temperature method is not recorded when the vitals were taken by this unit - so vitals taken before this EMS unit arrives are excluded from this rule. Rule set to “Error” level effective 1/1/2021. Revised rule published on 3/23/2021
GA Rule 1678 – Rule revised to only include ground transports with patient transport. Revised rule published on 3/23/2021
GA Rule 1679 – Rule revised to only include ground transports with patient transport. Revised rule published on 3/23/2021
GA Rule 2328 – Rule *revised*; changed point value to 1. Revised rule published on 3/23/2021
GA Rule 2410 – Rule revised; removed Pertinent Negatives (PN) and Not Values (NV). Revised rule published on 3/23/2021

Date/Time Last Known Well (eSituation.18) is required when possible injury

Points 1
Error Message
Date/Time Last Known Well is required when possible injury. For injury or trauma related events, this is the date and time the patient was injured.

Notes

Level State
Schematron Export Yes = Warning
Closed Call Yes No
Active Yes No

Warning: Rule modifications are not applied to existing records until opened or until validation is bulk executed from the record's last page.

eSituation.02
Possible Injury is equal to Yes

and

eSituation.18
Date/Time Last Known Well is blank

and
eTimes.01
Unit Notified by Dispatch Date/Time is after midnight (0:00) on 2020-09-01

and

eTimes.02
Unit Notified by Dispatch Date/Time is before midnight (0:00) on 2021-06-30

or...
GA Rule 2411 – **New rule set to “Error” level effective 6/30/2021**. Rule published on 10/9/2020

Rule revised to remove Pertinent Negatives (PN) and Not Values (NV). Revised rule published on 3/23/2021

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**Image Description:**

- **Image 1:** Diagram showing the calculation of points for the Date/Time Last Known Well (eSituation.18) being required when there is a possibility of injury - error.
  - **Points:** 1
  - **Error Message:**
    - Date/Time Last Known Well is required when possible injury. For injury or trauma related events, this is the date and
  - **Notes:**
  - **Level:** State
  - **Schematron Export:** Yes = Error
  - **Closed Call:** Yes
  - **Active:** Yes

- **Image 2:** Warning notification in Schematron output indicating markers for possible injury.
  - **Possible Injury is equal to Yes**
  - **Date/Time Last Known Well is blank**
  - **Unit Notified by Dispatch Date/Time is after midnight (0:00) on 2021-06-30**
GA Rule 2392 – **New rule set to “Error” level effective 6/30/2021.** Rule published on 10/9/2020

**Cause of Injury (eInjury.01) is required on all patients with possible injury - error**

1. **Points:** 1
2. **Error Message:** Cause of Injury (eInjury.01) is required on all patients with possible Injury
3. **Notes:**
4. **Level:** State
5. **Schematron Export:** Yes = Error
6. **Closed Call:** Yes
7. **Active:** Yes

**Warning:** Rule modifications are not applied to existing records until opened or until validation is bulk executed from the record's list page.

**eInjury.01**

- **Cause of Injury** will flag red if:
  - eSituation.02
    - **Possible Injury** is equal to **Yes**
  - eInjury.01
    - **Cause of Injury** is blank or...
  - date.time.03
    - **Unit Notified by Dispatch Date/Time** is after midnight (0:00) on 2021-06-30 or...

Mechanism of Injury (eInjury.02) is required on all patients with possible injury - error

Points
1

Error Message
Mechanism of Injury (eInjury.02) is required on all patients with possible injury

Notes

Level
State

Schematron Export
Yes = Error

Closed Call
Yes No

Active
Yes No
GA Rule 2395 – **New rule set to “Error” level effective 6/30/2021.** Rule published on 10/9/2020

**Trauma Center Criteria (eInjury.03) is required on possible injuries - error**

- Points: 1
- Error Message: Trauma Center Criteria (eInjury.03) is required on possible injuries
- Notes:
- Level: State
- Schematron Export: Yes = Error
- Closed Call: Yes
- Active: Yes

**Warning:** Rule modifications are not applied to existing records until opened or until validation is bulk executed from the record's list page.

**eInjury.03 Trauma Center Criteria** will flag red if:

- Situation 02
  - Possible Injury is equal to Yes
  - eInjury.03 Trauma Center Criteria is blank
- eInjury.03 Trauma Center Criteria (text) is not equal to Not Applicable
- Unit Notified by Dispatch Date/Time is after midnight (0:00) on 2021-06-30
GA Rule 2397 – **New rule set to “Error” level effective 6/30/2021.** Rule published on 10/9/2020

If Patient Dead at Scene - No Resuscitation (eDisposition.12), Cardiac Arrest (eArrest.01) should be equal to No

Points 1

Error Message

Notes

Level

Schematron Export: Yes - Warning

Closed Call

Active
CURRENT ISSUES WITH VALIDATION RULES AND DATA SUBMISSIONS
Previous Validation Rule only required if the unit made it on scene, Validation Rule 1670 changed on 5/1/20 to be required on ALL Responses

All responses are required to have a county listed for response location
This is not just for stroke patient documentation!

<table>
<thead>
<tr>
<th>eSituation.18 - Date/Time Last Known Well</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Definition</strong></td>
</tr>
<tr>
<td>The estimated date and time the patient was last known to be well or in their usual state of health. This is described or estimated by the patient, family, and/or bystanders.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>National Element</th>
<th>No</th>
<th>Pertinent Negatives (PN)</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>State Element</td>
<td>No</td>
<td>NOT Values</td>
<td>No</td>
</tr>
<tr>
<td>Version 2 Element</td>
<td></td>
<td>Is Nullable</td>
<td>No</td>
</tr>
<tr>
<td>Usage</td>
<td>Optional</td>
<td>Recurrence</td>
<td>0 : 1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Associated Performance Measure Initiatives</th>
</tr>
</thead>
<tbody>
<tr>
<td>Airway</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Constraints</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data Type: dateTime</td>
</tr>
<tr>
<td>minInclusive: 1650-01-01T00:00:00-00:00</td>
</tr>
<tr>
<td>maxInclusive: 2050-01-01T00:00:00-00:00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pattern</th>
</tr>
</thead>
<tbody>
<tr>
<td><a href="%5B0-9%5D">0-9</a>-[0-9][0-9][2][0-9][0-9][2][0-9][0-9][2][0-9]<a href="%5B%5Cd+%5D?%5B%5Cd+%5D?">0-9</a>?<a href="%5B0-9%5D%5B0-9%5D%5B0-9%5D">-+</a></td>
</tr>
</tbody>
</table>

**Data Element Comment**

For stroke related events, this is the date and time the patient was last seen normal. For cardiac or respiratory arrest related events, this is the date and time the patient was last known to have a pulse or when interaction was had with the patient. For drowning related events, this is the date and time the patient was last seen. For injury or trauma related events, this is the date and time the patient was injured.
NOTES

• Just because NEMSIS allows something in schema does NOT mean that the value are accepted in all situations
  ▪ Optional for the NEMSIS XML file does NOT necessarily mean Optional for state submission
Expectations of EMS Agencies

- EMS Agencies are ultimately **responsible** for accurate and timely data submission
- EMS Agencies are **responsible** for educating their medics on all validation rules
- EMS Agencies are **responsible** to make sure that Schematron updates/validation rules are applied in a timely manner
- EMS Agencies are **responsible** for making sure that your ePCR vendor has applied the validation rules prior to go live date
- EMS Agencies **must** use the correct GA facilities codes
- ePCR forms must NOT show “Not Recorded” or “Not Reporting” for medics to click on
- All ePCRs should be sent on a continuous basis throughout the day within 24 hours of call completion
- Agencies using GEMSIS Elite (Direct Entry) must create and post the incident within 24 hours of call completion
- While labels of values/elements may change – the definition of the field may NOT
Expectations of ePCR Vendors

- Apply Schematron updates in a timely manner (validation rules) to your ePCR system
- Use the correct GA facilities codes and agency IDs
- Must NOT default answers for the medics or agencies
- ePCR vendors must be completely NEMSIS 3.4 compliant NOW
- ePCR vendors must be completely NEMSIS 3.5 compliant before 1/1/2022
- ePCR forms must NOT show “Not Recorded” or “Not Reporting” for medics to click on
- All ePCR forms must show validation rule error messages to the medics
- All ePCRs should be sent on a continuous basis throughout the day within 24 hours of call completion.
- While labels of values/elements may change – the definition of the field may NOT
NOT Value Definition Descriptions
NEMSIS V3 Overview Document Description of NOT Values

NOT Values have been condensed in Version 3.

1. **Not Applicable**: The data element is not applicable or pertinent to the EMS event, assessment or, intervention. This value should be available to the data-entry user.

2. **Not Recorded**: The data element is considered applicable to the EMS event, but was left blank by the data-entry user. The EMS software should auto-populate blank fields with "Not Recorded" at the time of export. This value should not be available to the data-entry user.

3. **Not Reporting**: The data element is not be collected by the EMS agency or state. This NOT value does not apply to National elements where "Usage = Required". The EMS software should auto-populate the data fields not collected with "Not Reporting" when exporting the record. This value should not be available to the data-entry user.
NEMSIS Version 3.5.0 Coming Soon!

- NEMSIS Homepage: [www.nemsis.org](http://www.nemsis.org)

- NEMSIS 3.5.0 Data Dictionary

- More information on transition and timelines will be communicated with EMS Agencies once finalized.
Questions

- State GEMSIS Website
  - https://dph.georgia.gov/EMS/gemsis

- If you have any questions, you may contact us @
  - Dph-phemsinfo@dph.ga.gov
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