GA EMS Agencies Data Discussion on Validation Rules

OEMS/4/1/2021

DPH
Georgia Department of Public Health

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NEMSIS & Georgia Resources

- NEMSIS GA State Page
  o https://nemsis.org/state-data-managers/state-map-v3/georgia
  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
  o https://nemsis.org/media/nemsis_v3/release-3.4.0/DataDictionary/PDFHTML/DEMEMS/index.html

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Information Covered in this Document

- 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

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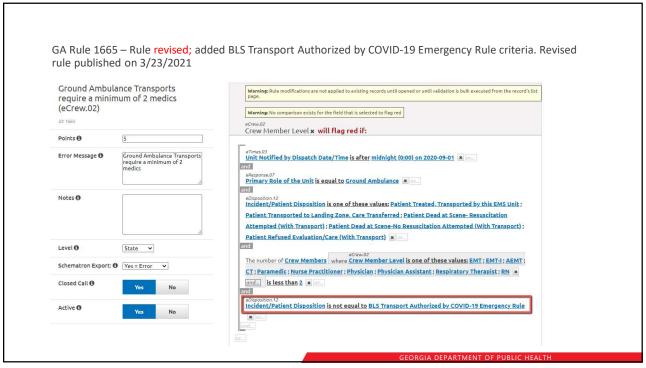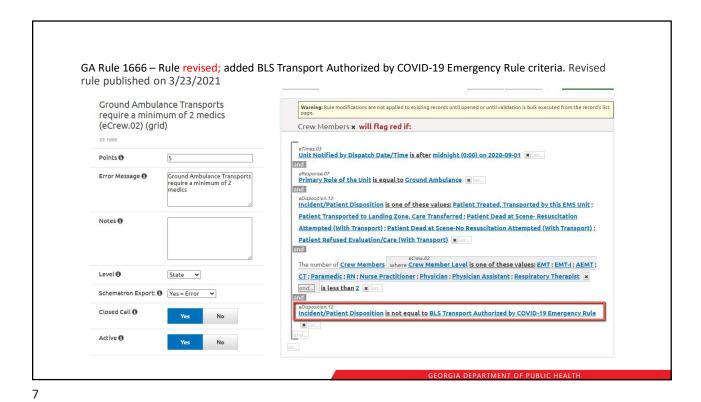# UPCOMING VALIDATION RULE CHANGES

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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

Temperature Method (eVitals.25) is required when recording temperature

ID: 988

Points: 5

Error Message: Temperature Method (eVitals.25) is required when recording temperature.

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 list page.

eVitals.25
Temperature Method ✖ will flag red if:

eVitals.24
Temperature is not blank ✖ or...
and
eVitals.25
Temperature Method is blank ✖ or...
and
eTimes.03
Unit Notified by Dispatch Date/Time is before midnight (0:00) on 2021-01-01 ✖ or...
and
eVitals.02
Obtained Prior to this Units EMS Care is equal to No ✖ or...

or...

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GA Rule 1665 – Rule revised; added BLS Transport Authorized by COVID-19 Emergency Rule criteria. Revised rule published on 3/23/2021

Ground Ambulance Transports require a minimum of 2 medics (eCrew.02)

ID: 1665

Points: 5

Error Message: Ground Ambulance Transports require a minimum of 2 medics

Notes:

Level: State

Schematron Export: Yes = Error

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 list page.

Warning: No comparison exists for the field that is selected to flag red

eCrew.02
Crew Member Level ✖ will flag red if:

eTimes.03
Unit Notified by Dispatch Date/Time is after midnight (0:00) on 2020-09-01 ✖ or...
and
eResponse.07
Primary Role of the Unit is equal to Ground Ambulance ✖ or...
and
eDisposition.12
Incident/Patient Disposition is one of these values: Patient Treated, Transported by this EMS Unit ;
Patient Transported to Landing Zone, Care Transferred ; Patient Dead at Scene- Resuscitation
Attempted (With Transport) ; Patient Dead at Scene-No Resuscitation Attempted (With Transport) ;
Patient Refused Evaluation/Care (With Transport) ✖ or...
and
eCrew.02
The number of Crew Members where Crew Member Level is one of these values: EMT ; EMT-I ; AEMT ;
CT ; Paramedic ; Nurse Practitioner ; Physician ; Physician Assistant ; Respiratory Therapist ; RN ✖
and... is less than 2 ✖ or...
and
eDisposition.12
Incident/Patient Disposition is not equal to BLS Transport Authorized by COVID-19 Emergency Rule
✖ or...
and...

or...

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GA Rule 1666 – Rule revised; added BLS Transport Authorized by COVID-19 Emergency Rule criteria. Revised rule published on 3/23/2021

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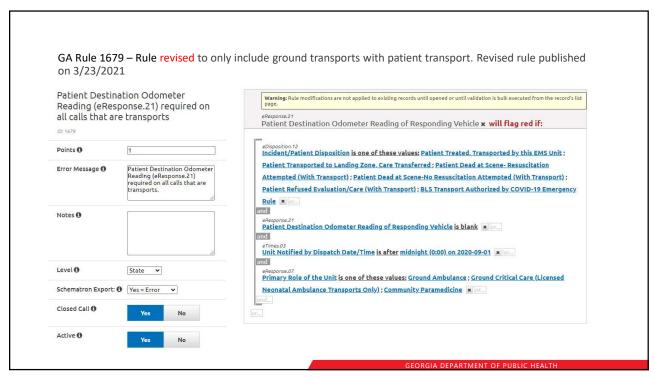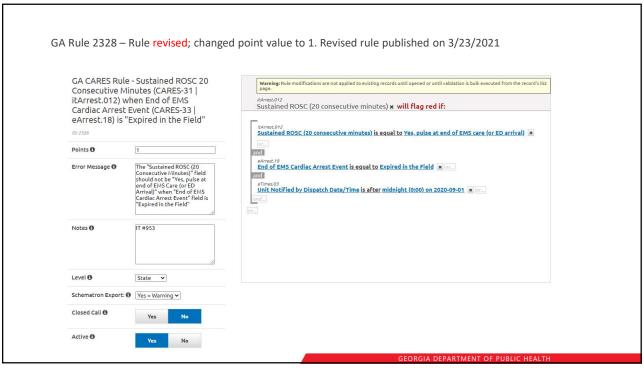GA Rule 1678 – Rule revised to only include ground transports with patient transport. Revised rule published on 3/23/2021

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GA Rule 1679 – Rule revised to only include ground transports with patient transport. Revised rule published on 3/23/2021

Patient Destination Odometer Reading (eResponse.21) required on all calls that are transports

ID: 1679

Field	Value
Points ℹ	1
Error Message ℹ	Patient Destination Odometer Reading (eResponse.21) required on all calls that are transports.
Notes ℹ	
Level ℹ	State
Schematron Export: ℹ	Yes = Error
Closed Call ℹ	Yes / No
Active ℹ	Yes / No

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

eResponse.21
Patient Destination Odometer Reading of Responding Vehicle ✖ **will flag red if:**

eDisposition.12
Incident/Patient Disposition is one of these values: Patient Treated, Transported by this EMS Unit ; Patient Transported to Landing Zone, Care Transferred ; Patient Dead at Scene- Resuscitation Attempted (With Transport) ; Patient Dead at Scene-No Resuscitation Attempted (With Transport) ; Patient Refused Evaluation/Care (With Transport) ; BLS Transport Authorized by COVID-19 Emergency Rule ✖ or...

and

eResponse.21
Patient Destination Odometer Reading of Responding Vehicle is blank ✖ or...

and

eTimes.03
Unit Notified by Dispatch Date/Time is after midnight (0:00) on 2020-09-01 ✖ or...

and

eResponse.07
Primary Role of the Unit is one of these values: Ground Ambulance ; Ground Critical Care (Licensed Neonatal Ambulance Transports Only) ; Community Paramedicine ✖ or...
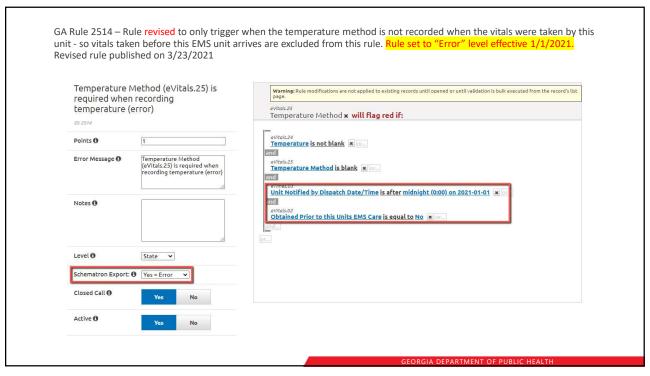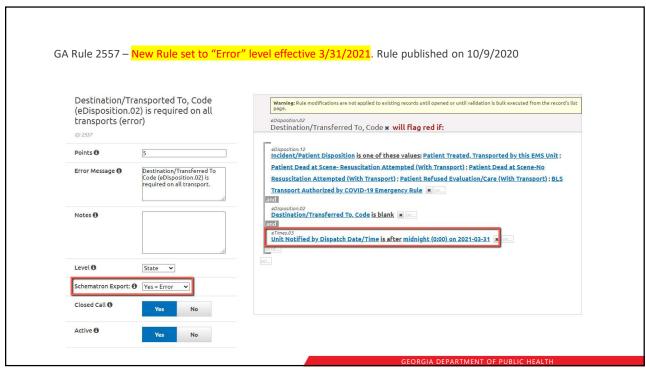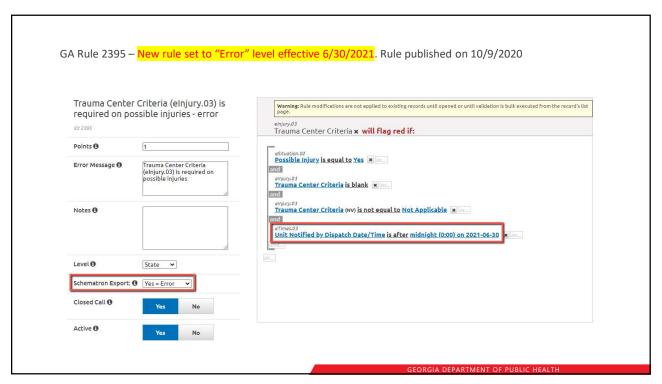
and...

or...

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GA Rule 2328 – Rule revised; changed point value to 1. Revised rule published on 3/23/2021

GA CARES Rule - Sustained ROSC 20 Consecutive Minutes (CARES-31 | itArrest.012) when End of EMS Cardiac Arrest Event (CARES-33 | eArrest.18) is "Expired in the Field"

ID: 2328

Field	Value
Points ℹ	1
Error Message ℹ	The "Sustained ROSC (20 Consecutive Minutes)" field should not be "Yes, pulse at end of EMS Care (or ED Arrival)" when "End of EMS Cardiac Arrest Event" field is "Expired in the Field"
Notes ℹ	IT #953
Level ℹ	State
Schematron Export: ℹ	Yes = Warning
Closed Call ℹ	Yes / No
Active ℹ	Yes / No

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

itArrest.012
Sustained ROSC (20 consecutive minutes) ✖ **will flag red if:**

itArrest.012
Sustained ROSC (20 consecutive minutes) is equal to Yes, pulse at end of EMS care (or ED arrival) ✖ or...

and

eArrest.18
End of EMS Cardiac Arrest Event is equal to Expired in the Field ✖ or...

and

eTimes.03
Unit Notified by Dispatch Date/Time is after midnight (0:00) on 2020-09-01 ✖ or...

and...

or...

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GA Rule 2410 – Rule revised; removed Pertinent Negatives (PN) and Not Values (NV). Revised rule published on 3/23/2021

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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

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GA Rule 2557 – New Rule set to "Error" level effective 3/31/2021. Rule published on 10/9/2020

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GA Rule 2392 – New rule set to "Error" level effective 6/30/2021. Rule published on 10/9/2020

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GA Rule 2394 – New rule set to "Error" level effective 6/30/2021. Rule published on 10/9/2020

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

ID: 2394

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

eInjury.02
Mechanism of Injury ✕ **will flag red if:**

Points ❶	1
Error Message ❶	Mechanism of Injury (eInjury.02) is required on all patients with possible injury
Notes ❶	
Level ❶	State
Schematron Export: ❶	Yes = Error
Closed Call ❶	Yes No
Active ❶	Yes No

eSituation.02
Possible Injury is equal to Yes ✕ or...
and
eInjury.02
Mechanism of Injury is blank ✕ or...
and
eTimes.03
Unit Notified by Dispatch Date/Time is after midnight (0:00) on 2021-06-30 ✕ or...
and...
or...

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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

ID: 2395

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:**

Points ❶	1
Error Message ❶	Trauma Center Criteria (eInjury.03) is required on possible injuries
Notes ❶	
Level ❶	State
Schematron Export: ❶	Yes = Error
Closed Call ❶	Yes No
Active ❶	Yes No

eSituation.02
Possible Injury is equal to Yes ✕ or...
and
eInjury.03
Trauma Center Criteria is blank ✕ or...
and
eInjury.03
Trauma Center Criteria (NV) **is not equal to Not Applicable** ✕ or...
and
eTimes.03
Unit Notified by Dispatch Date/Time is after midnight (0:00) on 2021-06-30 ✕ or...
and...
or...

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GA Rule 2397 – New rule set to "Error" level effective 6/30/2021. Rule published on 10/9/2020

Vehicular, Pedestrian, or Other Injury Risk Factor (eInjury.04) is required on all patients with possible injury - error

ID: 2397

Points ❶ [1]

Error Message ❶ Vehicular, Pedestrian, or Other Injury Risk Factor (eInjury.04) is required on all patients with possible injury

Notes ❶

Level ❶ [State ▾]

Schematron Export: ❶ [Yes = Error ▾]

Closed Call ❶ [Yes] [No]

Active ❶ [Yes] [No]

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

eInjury.04
Vehicular, Pedestrian, or Other Injury Risk Factor ✗ **will flag red if:**

eSituation.02
Possible Injury is equal to **Yes** ✗ or...

and

eInjury.04
Vehicular, Pedestrian, or Other Injury Risk Factor is blank ✗ or...

and

eInjury.04
Vehicular, Pedestrian, or Other Injury Risk Factor (NV) is not equal to **Not Applicable** ✗ or...

and

eTimes.03
Unit Notified by Dispatch Date/Time is after **midnight (0:00) on 2021-06-30** ✗ or...

and...

or...

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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

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

ID: 2411

Points ❶ [1]

Error Message ❶ Date/Time Last Known Well (eSituation.18) is required when possible injury. For injury or trauma related events, this is the date and

Notes ❶

Level ❶ [State ▾]

Schematron Export: ❶ [Yes = Error ▾]

Closed Call ❶ [Yes] [No]

Active ❶ [Yes] [No]

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

eSituation.18
Date/Time Last Known Well ✗ **will flag red if:**

eSituation.02
Possible Injury is equal to **Yes** ✗ or...

and

eSituation.18
Date/Time Last Known Well is blank ✗ or...

and

eTimes.03
Unit Notified by Dispatch Date/Time is after **midnight (0:00) on 2021-06-30** ✗ or...

and...

or...

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GA Rule 2885 – ==New rule set to "Warning" level effective 6/30/2021==. Rule published on 3/23/2021

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

ID: 2885

Points ⓘ	1
Error Message ⓘ	If Patient Dead at Scene - No Resuscitation (eDisposition.12), Cardiac Arrest (eArrest.01) should be equal to No
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 list page.

eArrest.01
Cardiac Arrest ✖ **will flag red if:**

eArrest.01
Cardiac Arrest is one of these values: Yes, After EMS Arrival ; Yes, Prior to EMS Arrival ✖ *or...*
and
eDisposition.12
Incident/Patient Disposition is one of these values: Patient Dead at Scene-No Resuscitation Attempted (No Transport) ; Patient Dead at Scene-No Resuscitation Attempted (With Transport) ✖
or...
and
eTimes.03
Unit Notified by Dispatch Date/Time is after midnight (0:00) on 2021-06-30 *or...*
and...
or...

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CURRENT ISSUES WITH VALIDATION RULES AND DATA SUBMISSIONS

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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

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This is not just for stroke patient documentation!

eSituation.18

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EXPECTATIONS OF EMS AGENCIES AND ePCR VENDORS

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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

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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

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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

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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.

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NEMSIS Version 3.5.0 Coming Soon!

- NEMSIS Homepage: www.nemsis.org

- NEMSIS 3.5.0 Data Dictionary
  - https://nemsis.org/media/nemsis_v3/release-3.5.0/DataDictionary/PDFHTML/EMSDEMSTATE/index.html

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

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