

NEMESIS

Schematron Validation Rules

EMSDataset

Version: 3.5.0.211001CP2_ET3211001

NEMESIS ISO Schematron file for EMSDataSet for ET3 Project

Overview By Validation Message

- et3_e001 **Warning** Transfer of EMS Patient Care Date/Time should be recorded when Crew Disposition is "Initiated Primary Care and Transferred to Another Provider on Scene (non-EMS)" or "... to Telehealth Provider".
- et3_e002 **Warning** Last Name should be recorded when Patient Evaluation/Care is "Patient Evaluated and Care Provided".
- et3_e003 **Warning** First Name should be recorded when Patient Evaluation/Care is "Patient Evaluated and Care Provided".
- et3_e004 **Warning** Date of Birth should be recorded when Patient Evaluation/Care is "Patient Evaluated and Care Provided".
- et3_e005 **Warning** Primary Method of Payment should be recorded when Crew Disposition is "Initiated Primary Care and Transferred to Another Provider on Scene (non-EMS)" or "... to Telehealth Provider".
- et3_e006 **Warning** Type of Destination (the type of provider to whom care was transferred) should be recorded when Crew Disposition is "Initiated Primary Care and Transferred to Another Provider on Scene (non-EMS)" or "... to Telehealth Provider".
- et3_e007 **Warning** ET3 Alternative Disposition Offer and Result should be recorded when Primary Method of Payment is "Medicare".
- et3_e008 **Warning** Type of Destination (the type of provider to whom care was transferred) should be "Qualified Health Care Partner" when Crew Disposition is "Initiated Primary Care and Transferred to Another Provider on Scene (non-EMS)" or "... to Telehealth Provider".
- et3_e009 **Warning** The correct NEMSIS fallback code should be used when an ET3 custom value is recorded for Crew Disposition.
- et3_e010 **Warning** A custom value permitted by ET3 for Crew Disposition should not occur more than once on a PCR.
- et3_e011 **Warning** The correct NEMSIS fallback code should be used when an ET3 custom value is recorded for Type of Destination.
- et3_e012 **Warning** A custom value permitted by ET3 for Type of Destination should not occur more than once on a PCR.
- et3_e013 **Warning** ET3 Alternative Disposition Offer and Result should be a value permitted by ET3.
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- et3_e014 **Warning** ET3 Alternative Disposition Offer and Result should not occur more than once on a PCR.
- et3_e015 **Warning** Transfer of EMS Patient Care Date/Time should not be earlier than Date/Time Initial Responder Arrived on Scene.
- et3_e016 **Warning** Transfer of EMS Patient Care Date/Time should not be earlier than Date/Time of Symptom Onset.
- et3_e017 **Warning** Transfer of EMS Patient Care Date/Time should not be earlier than Unit Notified by Dispatch Date/Time.
- et3_e018 **Warning** Transfer of EMS Patient Care Date/Time should not be earlier than Unit En Route Date/Time.
- et3_e019 **Warning** Transfer of EMS Patient Care Date/Time should not be earlier than Unit Arrived on Scene Date/Time.
- et3_e020 **Warning** Transfer of EMS Patient Care Date/Time should not be earlier than Arrived at Patient Date/Time.
- et3_e021 **Warning** Unit Back in Service Date/Time should not be earlier than Transfer of EMS Patient Care Date/Time.
- et3_e022 **Warning** Date/Time Medication Administered should not be later than Transfer of EMS Patient Care Date/Time.
- et3_e023 **Warning** Date/Time Procedure Performed should not be later than Transfer of EMS Patient Care Date/Time.
- et3_e024 **Warning** Date/Time Vital Signs Taken should not be later than Transfer of EMS Patient Care Date/Time.

eTimes.03 - Unit Notified by Dispatch Date/Time

et3_e017 **Warning** Transfer of EMS Patient Care Date/Time should not be earlier than Unit Notified by Dispatch Date/Time.

eTimes.05 - Unit En Route Date/Time

et3_e018 **Warning** Transfer of EMS Patient Care Date/Time should not be earlier than Unit En Route Date/Time.

eTimes.06 - Unit Arrived on Scene Date/Time

et3_e019 **Warning** Transfer of EMS Patient Care Date/Time should not be earlier than Unit Arrived on Scene Date/Time.

eTimes.07 - Arrived at Patient Date/Time

et3_e020 **Warning** Transfer of EMS Patient Care Date/Time should not be earlier than Arrived at Patient Date/Time.

eTimes.08 - Transfer of EMS Patient Care Date/Time

et3_e001 **Warning** Transfer of EMS Patient Care Date/Time should be recorded when Crew Disposition is "Initiated Primary Care and Transferred to Another Provider on Scene (non-EMS)" or "... to Telehealth Provider".

et3_e015 **Warning** Transfer of EMS Patient Care Date/Time should not be earlier than Date/Time Initial Responder Arrived on Scene.

et3_e016 **Warning** Transfer of EMS Patient Care Date/Time should not be earlier than Date/Time of Symptom Onset.

et3_e017 **Warning** Transfer of EMS Patient Care Date/Time should not be earlier than Unit Notified by Dispatch Date/Time.

et3_e018 **Warning** Transfer of EMS Patient Care Date/Time should not be earlier than Unit En Route Date/Time.

- et3_e019 **Warning** Transfer of EMS Patient Care Date/Time should not be earlier than Unit Arrived on Scene Date/Time.
- et3_e020 **Warning** Transfer of EMS Patient Care Date/Time should not be earlier than Arrived at Patient Date/Time.
- et3_e021 **Warning** Unit Back in Service Date/Time should not be earlier than Transfer of EMS Patient Care Date/Time.
- et3_e022 **Warning** Date/Time Medication Administered should not be later than Transfer of EMS Patient Care Date/Time.
- et3_e023 **Warning** Date/Time Procedure Performed should not be later than Transfer of EMS Patient Care Date/Time.
- et3_e024 **Warning** Date/Time Vital Signs Taken should not be later than Transfer of EMS Patient Care Date/Time.

eTimes.13 - Unit Back in Service Date/Time

- et3_e021 **Warning** Unit Back in Service Date/Time should not be earlier than Transfer of EMS Patient Care Date/Time.

ePatient.PatientNameGroup - Last Name

- et3_e002 **Warning** Last Name should be recorded when Patient Evaluation/Care is "Patient Evaluated and Care Provided".
- et3_e003 **Warning** First Name should be recorded when Patient Evaluation/Care is "Patient Evaluated and Care Provided".

ePatient.02 - Last Name

- et3_e002 **Warning** Last Name should be recorded when Patient Evaluation/Care is "Patient Evaluated and Care Provided".

ePatient.03 - First Name

- et3_e003 **Warning** First Name should be recorded when Patient Evaluation/Care is "Patient Evaluated

and Care Provided".

ePatient.17 - Date of Birth

et3_e004 **Warning** Date of Birth should be recorded when Patient Evaluation/Care is "Patient Evaluated and Care Provided".

ePayment.01 - Primary Method of Payment

et3_e005 **Warning** Primary Method of Payment should be recorded when Crew Disposition is "Initiated Primary Care and Transferred to Another Provider on Scene (non-EMS)" or "... to Telehealth Provider".

eScene.05 - Date/Time Initial Responder Arrived on Scene

et3_e015 **Warning** Transfer of EMS Patient Care Date/Time should not be earlier than Date/Time Initial Responder Arrived on Scene.

eSituation.01 - Date/Time of Symptom Onset

et3_e016 **Warning** Transfer of EMS Patient Care Date/Time should not be earlier than Date/Time of Symptom Onset.

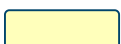
eVitals.01 - Date/Time Vital Signs Taken

et3_e024 **Warning** Date/Time Vital Signs Taken should not be later than Transfer of EMS Patient Care Date/Time.

eVitals.02 - Obtained Prior to this Unit's EMS Care

et3_e024 **Warning** Date/Time Vital Signs Taken should not be later than Transfer of EMS Patient Care Date/Time.

eMedications.01 - Date/Time Medication Administered



et3_e022 **Warning** Date/Time Medication Administered should not be later than Transfer of EMS Patient Care Date/Time.

eMedications.02 - Medication Administered Prior to this Unit's EMS Care

et3_e022 **Warning** Date/Time Medication Administered should not be later than Transfer of EMS Patient Care Date/Time.

eProcedures.01 - Date/Time Procedure Performed

et3_e023 **Warning** Date/Time Procedure Performed should not be later than Transfer of EMS Patient Care Date/Time.

eProcedures.02 - Procedure Performed Prior to this Unit's EMS Care

et3_e023 **Warning** Date/Time Procedure Performed should not be later than Transfer of EMS Patient Care Date/Time.

eDisposition.IncidentDispositionGroup - Unit Disposition

et3_e001 **Warning** Transfer of EMS Patient Care Date/Time should be recorded when Crew Disposition is "Initiated Primary Care and Transferred to Another Provider on Scene (non-EMS)" or "... to Telehealth Provider".

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et3_e005 **Warning** Primary Method of Payment should be recorded when Crew Disposition is "Initiated Primary Care and Transferred to Another Provider on Scene (non-EMS)" or "... to Telehealth Provider".

et3_e006 **Warning** Type of Destination (the type of provider to whom care was transferred) should be recorded when Crew Disposition is "Initiated Primary Care and Transferred to Another Provider on Scene (non-EMS)" or "... to Telehealth Provider".

et3_e009 **Warning** The correct NEMESIS fallback code should be used when an ET3 custom value is recorded for **Crew Disposition**.

et3_e010 **Warning** A custom value permitted by ET3 for **Crew Disposition** should not occur more than once on a PCR.

eDisposition.28 - Patient Evaluation/Care

et3_e002 **Warning** **Last Name** should be recorded when **Patient Evaluation/Care** is "Patient Evaluated and Care Provided".

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eDisposition.29 - Crew Disposition

et3_e001 **Warning** **Transfer of EMS Patient Care Date/Time** should be recorded when **Crew Disposition** is "Initiated Primary Care and Transferred to Another Provider on Scene (non-EMS)" or "... to Telehealth Provider".

et3_e005 **Warning** **Primary Method of Payment** should be recorded when **Crew Disposition** is "Initiated Primary Care and Transferred to Another Provider on Scene (non-EMS)" or "... to Telehealth Provider".

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eDisposition.21 - Type of Destination

et3_e006 **Warning** **Type of Destination** (the type of provider to whom care was transferred) should be recorded when **Crew Disposition** is "Initiated Primary Care and Transferred to

Another Provider on Scene (non-EMS)" or "... to Telehealth Provider".

et3_e008 **Warning** **Type of Destination** (the type of provider to whom care was transferred) should be "Qualified Health Care Partner" when **Crew Disposition** is "Initiated Primary Care and Transferred to Another Provider on Scene (non-EMS)" or "... to Telehealth Provider".

et3_e011 **Warning** The correct NEMSIS fallback code should be used when an ET3 custom value is recorded for **Type of Destination**.

et3_e012 **Warning** A custom value permitted by ET3 for **Type of Destination** should not occur more than once on a PCR.

eCustomResults.ResultsGroup - Custom Data Element Result

et3_e001 **Warning** **Transfer of EMS Patient Care Date/Time** should be recorded when **Crew Disposition** is "Initiated Primary Care and Transferred to Another Provider on Scene (non-EMS)" or "... to Telehealth Provider".

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eCustomResults.01 - Custom Data Element Result

et3_e001 **Warning** **Transfer of EMS Patient Care Date/Time** should be recorded when **Crew Disposition** is "Initiated Primary Care and Transferred to Another Provider on Scene (non-EMS)" or "... to Telehealth Provider".

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et3_e006 **Warning** **Type of Destination** (the type of provider to whom care was transferred) should be

recorded when **Crew Disposition** is "Initiated Primary Care and Transferred to Another Provider on Scene (non-EMS)" or "... to Telehealth Provider".

- et3_e007 **Warning** ET3 Alternative Disposition Offer and Result should be recorded when **Primary Method of Payment** is "Medicare".
- et3_e008 **Warning** **Type of Destination** (the type of provider to whom care was transferred) should be "Qualified Health Care Partner" when **Crew Disposition** is "Initiated Primary Care and Transferred to Another Provider on Scene (non-EMS)" or "... to Telehealth Provider".
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- et3_e012 **Warning** A custom value permitted by ET3 for **Type of Destination** should not occur more than once on a PCR.
- et3_e013 **Warning** ET3 Alternative Disposition Offer and Result should be a value permitted by ET3.
- et3_e014 **Warning** ET3 Alternative Disposition Offer and Result should not occur more than once on a PCR.

eCustomResults.02 - Custom Element ID Referenced

- et3_e001 **Warning** **Transfer of EMS Patient Care Date/Time** should be recorded when **Crew Disposition** is "Initiated Primary Care and Transferred to Another Provider on Scene (non-EMS)" or "... to Telehealth Provider".
- et3_e005 **Warning** **Primary Method of Payment** should be recorded when **Crew Disposition** is "Initiated Primary Care and Transferred to Another Provider on Scene (non-EMS)" or "... to Telehealth Provider".
- et3_e006 **Warning** **Type of Destination** (the type of provider to whom care was transferred) should be recorded when **Crew Disposition** is "Initiated Primary Care and Transferred to Another Provider on Scene (non-EMS)" or "... to Telehealth Provider".
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Schema EMSDataSet

Title

NEMESIS ISO Schematron file for EMSDataSet for ET3 Project

QueryBinding xslt2

SchemaVersion 3.5.0.211001CP2_ET3211001

Ns nem: <http://www.nemesis.org>

Ns xsi: <http://www.w3.org/2001/XMLSchema-instance>

Comment

"Initialize" variables used by nemesisDiagnostic.

Let \$nemesisElements = ()

Let \$nemesisElementsMissing = "

Let \$nemesisElementsMissingContext = ()

Comment

Set up key for NEMESIS element name lookup list (look up XML element name to retrieve NEMESIS element name).

Variable

EMS Agency Unique State ID EMS Agency Number EMS Agency Name EMS Agency State EMS Agency Service Area States EMS Agency Service Area County(ies) EMS Agency Census Tracts EMS Agency Service Area ZIP Codes Primary Type of Service Other Types of Service Level of Service Organization Status Organizational Type EMS Agency Organizational Tax Status Statistical Calendar Year Total Primary Service Area Size Total Service Area Population 911 EMS Call Center Volume per Year EMS Dispatch Volume per Year EMS Patient Transport Volume per Year EMS Patient Contact Volume per Year EMS Billable Calls per Year EMS Agency Time Zone EMS Agency Daylight Savings Time Use National Provider Identifier Fire Department ID Number State Associated with this Configuration EMS Certification Levels Permitted to Perform Each Procedure EMS Agency Procedures EMS Certification Levels Permitted to Administer Each Medication EMS Agency Medications EMS Agency Protocols EMS Agency Specialty Service Capability Billing Status Emergency Medical Dispatch (EMD) Provided to EMS Agency Service Area EMD Vendor Patient Monitoring Capability(ies) Crew Call Sign Dispatch Center (CAD) Name or ID Agency Contact Type Agency Contact Last Name Agency Contact First Name Agency Contact Middle Name/Initial Agency Contact Address Agency Contact City Agency Contact State Agency Contact ZIP Code Agency Contact Country Agency Contact Phone Number Agency Contact Email Address EMS Agency Contact Web Address Agency Medical Director Degree Agency Medical Director Board Certification Type Medical Director Compensation EMS Medical Director Fellowship Trained Status Custom Data Element Title Custom Definition Custom Data Type Custom Data Element Recurrence Custom Data Element Usage Custom Data Element Potential Values Custom Data Element Potential NOT Values (NV)

Custom Data Element Potential Pertinent Negative Values (PN) Custom Data Element Grouping ID Custom Data Element Result Custom Element ID Referenced CorrelationID of DemographicReport Element or Group Medical Device Serial Number Medical Device Name or ID Medical Device Type Medical Device Manufacturer Medical Device Model Number Medical Device Purchase Date Type of Facility Facility Name Facility Location Code Hospital Designations Facility National Provider Identifier Facility Room, Suite, or Apartment Facility Street Address Facility City Facility State Facility ZIP Code Facility County Facility Country Facility GPS Location Facility US National Grid Coordinates Facility Phone Number EMS Location Type EMS Location Name EMS Location Number EMS Location GPS EMS Location US National Grid Coordinates EMS Location Address EMS Location City EMS Location State EMS Station or Location ZIP Code EMS Location County EMS Location Country EMS Location Phone Number EMS Personnel's Last Name EMS Personnel's First Name EMS Personnel's Middle Name/Initial EMS Personnel's Mailing Address EMS Personnel's City of Residence EMS Personnel's State EMS Personnel's ZIP Code EMS Personnel's Country EMS Personnel's Phone Number EMS Personnel's Email Address EMS Personnel's Date of Birth EMS Personnel's Gender EMS Personnel's Race EMS Personnel's Citizenship EMS Personnel's Highest Educational Degree EMS Personnel's Degree Subject/Field of Study EMS Personnel's Motor Vehicle License Type EMS Personnel's Immunization Status EMS Personnel's Immunization Year EMS Personnel's Foreign Language Ability EMS Personnel's Agency ID Number EMS Personnel's State of Licensure EMS Personnel's State's Licensure ID Number EMS Personnel's State EMS Certification Licensure Level EMS Personnel's State EMS Current Certification Date EMS Personnel's Initial State's Licensure Issue Date EMS Personnel's Current State's Licensure Expiration Date EMS Personnel's National Registry Number EMS Personnel's National Registry Certification Level EMS Personnel's Current National Registry Expiration Date EMS Personnel's Employment Status EMS Personnel's Employment Status Date EMS Personnel's Hire Date EMS Personnel's Primary EMS Job Role EMS Personnel's Other Job Responsibilities EMS Personnel's Total Length of Service in Years EMS Personnel's Date Length of Service Documented EMS Personnel's Practice Level Date of Personnel's Certification or Licensure for Agency Unit/Vehicle Number Vehicle Identification Number EMS Unit Call Sign Vehicle Type Crew State Certification/Licensure Levels Number of Each EMS Personnel Level on Normal 911 Ambulance Response Number of Each EMS Personnel Level on Normal 911 Response (Non-Transport) Vehicle Number of Each EMS Personnel Level on Normal Medical (Non-911) Transport Ambulance Vehicle Initial Cost Vehicle Model Year Year Miles/Kilometers Hours Accrued Annual Vehicle Hours Annual Vehicle Miles/Kilometers Indications for Invasive Airway Date/Time Airway Device Placement Confirmation Airway Device Being Confirmed Airway Device Placement Confirmed Method Tube Depth Type of Individual Confirming Airway Device Placement Crew Member ID Airway Complications Encountered Suspected Reasons for Failed Airway Management Date/Time

Encountered Suspected Reasons for Failed Airway Management Date/Time
Decision to Manage the Patient with an Invasive Airway Date/Time Invasive
Airway Placement Attempts Abandoned Cardiac Arrest Cardiac Arrest
Etiology Resuscitation Attempted By EMS Arrest Witnessed By AED Use
Prior to EMS Arrival Type of CPR Provided Therapeutic Hypothermia by
EMS First Monitored Arrest Rhythm of the Patient Any Return of
Spontaneous Circulation Neurological Outcome at Hospital Discharge
Date/Time of Cardiac Arrest Date/Time Resuscitation Discontinued Reason
CPR/Resuscitation Discontinued Cardiac Rhythm on Arrival at Destination
End of EMS Cardiac Arrest Event Date/Time of Initial CPR Who First
Initiated CPR Who First Applied the AED Who First Defibrillated the Patient
Crew Member ID Crew Member Level Crew Member Response Role
Custom Data Element Title Custom Definition Custom Data Type Custom
Data Element Recurrence Custom Data Element Usage Custom Data
Element Potential Values Custom Data Element Potential NOT Values (NV)
Custom Data Element Potential Pertinent Negative Values (PN) Custom
Data Element Grouping ID Custom Data Element Result Custom Element
ID Referenced CorrelationID of PatientCareReport Element or Group
Medical Device Serial Number Date/Time of Event (per Medical Device)
Medical Device Event Type Medical Device Waveform Graphic Type Medical
Device Waveform Graphic Medical Device Mode (Manual, AED, Pacing,
CO2, O2, etc) Medical Device ECG Lead Medical Device ECG Interpretation
Type of Shock Shock or Pacing Energy Total Number of Shocks Delivered
Pacing Rate Dispatch Reason EMD Performed EMD Card Number Dispatch
Center Name or ID Dispatch Priority (Patient Acuity) Unit Dispatched CAD
Record ID Destination/Transferred To, Name Destination/Transferred To,
Code Destination Street Address Destination City Destination State
Destination County Destination ZIP Code Destination Country Destination
GPS Location Destination Location US National Grid Coordinates Number
of Patients Transported in this EMS Unit How Patient Was Moved to
Ambulance Position of Patient During Transport How Patient Was Moved
From Ambulance EMS Transport Method Transport Mode from Scene
Additional Transport Mode Descriptors Final Patient Acuity Reason for
Choosing Destination Type of Destination Hospital In-Patient Destination
Hospital Capability Destination Team Pre-Arrival Alert or Activation
Date/Time of Destination Prearrival Alert or Activation Disposition
Instructions Provided Unit Disposition Patient Evaluation/Care Crew
Disposition Transport Disposition Reason for Refusal/Release Level of Care
Provided per Protocol Estimated Body Weight in Kilograms Length Based
Tape Measure Date/Time of Assessment Skin Assessment Head
Assessment Face Assessment Neck Assessment Heart Assessment
Abdominal Assessment Finding Location Abdomen Assessment
Pelvis/Genitourinary Assessment Back and Spine Assessment Finding
Location Back and Spine Assessment Extremity Assessment Finding
Location Extremities Assessment Eye Assessment Finding Location Eye
Assessment Mental Status Assessment Neurological Assessment
Stroke/CVA Symptoms Resolved Lung Assessment Finding Location Lung
Assessment Chest Assessment Finding Location Chest Assessment Barriers

ASSESSMENT CHEST ASSESSMENT FINDING LOCATION CHEST ASSESSMENT BATTERIES
to Patient Care Last Name of Patient's Practitioner First Name of Patient's
Practitioner Middle Name/Initial of Patient's Practitioner Advance
Directives Medication Allergies Environmental/Food Allergies
Medical/Surgical History Medical History Obtained From The Patient's Type
of Immunization Immunization Year Current Medications Current
Medication Dose Current Medication Dosage Unit Current Medication
Administration Route Presence of Emergency Information Form
Alcohol/Drug Use Indicators Pregnancy Last Oral Intake Current
Medication Frequency Cause of Injury Mechanism of Injury Trauma Triage
Criteria (Steps 1 and 2) Trauma Triage Criteria (Steps 3 and 4) Main Area of
the Vehicle Impacted by the Collision Location of Patient in Vehicle Use of
Occupant Safety Equipment Airbag Deployment Height of Fall (feet) OSHA
Personal Protective Equipment Used ACN System/Company Providing ACN
Data ACN Incident ID ACN Call Back Phone Number Date/Time of ACN
Incident ACN Incident Location ACN Incident Vehicle Body Type ACN
Incident Vehicle Manufacturer ACN Incident Vehicle Make ACN Incident
Vehicle Model ACN Incident Vehicle Model Year ACN Incident Multiple
Impacts ACN Incident Delta Velocity ACN High Probability of Injury ACN
Incident PDOF ACN Incident Rollover ACN Vehicle Seat Location Seat
Occupied ACN Incident Seatbelt Use ACN Incident Airbag Deployed
Date/Time of Laboratory or Imaging Result Study/Result Prior to this Unit's
EMS Care Laboratory Result Type Laboratory Result Imaging Study Type
Imaging Study Results Imaging Study File or Waveform Graphic Type
Imaging Study File or Waveform Graphic Date/Time Medication
Administered Medication Administered Prior to this Unit's EMS Care
Medication Administered Medication Administered Route Medication
Dosage Medication Dosage Units Response to Medication Medication
Complication Medication Crew (Healthcare Professionals) ID Role/Type of
Person Administering Medication Medication Authorization Medication
Authorizing Physician Patient Care Report Narrative Review Requested
Potential System of Care/Specialty/Registry Patient Personal Protective
Equipment Used EMS Professional (Crew Member) ID Suspected EMS Work
Related Exposure, Injury, or Death The Type of Work-Related Injury, Death
or Suspected Exposure Natural, Suspected, Intentional, or Unintentional
Disaster Crew Member Completing this Report External Electronic
Document Type File Attachment Type File Attachment Image Type of
Person Signing Signature Reason Type Of Patient Representative Signature
Status Signature File Name Signature File Type Signature Graphic
Date/Time of Signature Signature Last Name Signature First Name File
Attachment Name Emergency Department Disposition Hospital Disposition
External Report ID/Number Type External Report ID/Number Other Report
Registry Type Emergency Department Procedures Emergency Department
Diagnosis Date/Time of Hospital Admission Hospital Procedures Hospital
Diagnosis Date/Time of Hospital Discharge Outcome at Hospital Discharge
Date/Time of Emergency Department Admission Date/Time Emergency
Department Procedure Performed Date/Time Hospital Procedure
Performed EMS Patient ID Last Name First Name Middle Initial/Name

PERFORMED EMS PATIENT ID LAST NAME FIRST NAME MIDDLE INITIAL/NAME
Patient's Home Address Patient's Home City Patient's Home County
Patient's Home State Patient's Home ZIP Code Patient's Country of
Residence Patient Home Census Tract Social Security Number Gender Race
Age Age Units Date of Birth Patient's Phone Number Patient's Email
Address State Issuing Driver's License Driver's License Number Alternate
Home Residence Primary Method of Payment Physician Certification
Statement Date Physician Certification Statement Signed Reason for
Physician Certification Statement Healthcare Provider Type Signing
Physician Certification Statement Last Name of Individual Signing Physician
Certification Statement First Name of Individual Signing Physician
Certification Statement Patient Resides in Service Area Insurance Company
ID Insurance Company Name Insurance Company Billing Priority Insurance
Company Address Insurance Company City Insurance Company State
Insurance Company ZIP Code Insurance Company Country Insurance
Group ID Insurance Policy ID Number Last Name of the Insured First Name
of the Insured Middle Initial/Name of the Insured Relationship to the
Insured Closest Relative/Guardian Last Name Closest Relative/ Guardian
First Name Closest Relative/ Guardian Middle Initial/Name Closest Relative/
Guardian Street Address Closest Relative/ Guardian City Closest Relative/
Guardian State Closest Relative/ Guardian ZIP Code Closest Relative/
Guardian Country Closest Relative/ Guardian Phone Number Closest
Relative/ Guardian Relationship Patient's Employer Patient's Employer's
Address Patient's Employer's City Patient's Employer's State Patient's
Employer's ZIP Code Patient's Employer's Country Patient's Employer's
Primary Phone Number Response Urgency Patient Transport Assessment
Specialty Care Transport Care Provider Ambulance Transport Reason Code
Round Trip Purpose Description Stretcher Purpose Description Ambulance
Conditions Indicator Mileage to Closest Hospital Facility ALS Assessment
Performed and Warranted CMS Service Level EMS Condition Code CMS
Transportation Indicator Transport Authorization Code Prior Authorization
Code Payer Supply Item Used Name Number of Supply Item(s) Used Payer
Type Insurance Group Name Insurance Company Phone Number Date of
Birth of the Insured Date/Time Procedure Performed Procedure
Performed Prior to this Unit's EMS Care Procedure Size of Procedure
Equipment Number of Procedure Attempts Procedure Successful
Procedure Complication Response to Procedure Procedure Crew Members
ID Role/Type of Person Performing the Procedure Procedure Authorization
Procedure Authorizing Physician Vascular Access Location Protocols Used
Protocol Age Category Patient Care Report Number Software Creator
Software Name Software Version EMS Agency Number EMS Agency Name
Incident Number EMS Response Number Type of Service Requested
Standby Purpose Unit Transport and Equipment Capability Type of
Dispatch Delay Type of Response Delay Type of Scene Delay Type of
Transport Delay Type of Turn-Around Delay EMS Vehicle (Unit) Number
EMS Unit Call Sign Vehicle Dispatch Location Vehicle Dispatch GPS Location
Vehicle Dispatch Location US National Grid Coordinates Beginning

Odometer Reading of Responding Vehicle On-Scene Odometer Reading of Responding Vehicle Patient Destination Odometer Reading of Responding Vehicle Ending Odometer Reading of Responding Vehicle Response Mode to Scene Additional Response Mode Descriptors First EMS Unit on Scene Other EMS or Public Safety Agencies at Scene Other EMS or Public Safety Agency ID Number Type of Other Service at Scene Date/Time Initial Responder Arrived on Scene Number of Patients at Scene Mass Casualty Incident Triage Classification for MCI Patient Incident Location Type Incident Facility Code Scene GPS Location Scene US National Grid Coordinates Incident Facility or Location Name Mile Post or Major Roadway Incident Street Address Incident Apartment, Suite, or Room Incident City Incident State Incident ZIP Code Scene Cross Street or Directions Incident County Incident Country Incident Census Tract First Other EMS or Public Safety Agency at Scene to Provide Patient Care Date/Time of Symptom Onset Possible Injury Complaint Type Complaint Duration of Complaint Time Units of Duration of Complaint Chief Complaint Anatomic Location Chief Complaint Organ System Primary Symptom Other Associated Symptoms Provider's Primary Impression Provider's Secondary Impressions Initial Patient Acuity Work-Related Illness/Injury Patient's Occupational Industry Patient's Occupation Patient Activity Date/Time Last Known Well Justification for Transfer or Encounter Reason for Interfacility Transfer/Medical Transport PSAP Call Date/Time Dispatch Notified Date/Time Unit Notified by Dispatch Date/Time Dispatch Acknowledged Date/Time Unit En Route Date/Time Unit Arrived on Scene Date/Time Arrived at Patient Date/Time Transfer of EMS Patient Care Date/Time Unit Left Scene Date/Time Arrival at Destination Landing Area Date/Time Patient Arrived at Destination Date/Time Destination Patient Transfer of Care Date/Time Unit Back in Service Date/Time Unit Canceled Date/Time Unit Back at Home Location Date/Time EMS Call Completed Date/Time Unit Arrived at Staging Area Date/Time Date/Time Vital Signs Taken Obtained Prior to this Unit's EMS Care Cardiac Rhythm / Electrocardiography (ECG) ECG Type Method of ECG Interpretation SBP (Systolic Blood Pressure) DBP (Diastolic Blood Pressure) Method of Blood Pressure Measurement Mean Arterial Pressure Heart Rate Method of Heart Rate Measurement Pulse Oximetry Pulse Rhythm Respiratory Rate Respiratory Effort End Tidal Carbon Dioxide (ETCO₂) Carbon Monoxide (CO) Blood Glucose Level Glasgow Coma Score-Eye Glasgow Coma Score-Verbal Glasgow Coma Score-Motor Glasgow Coma Score-Qualifier Total Glasgow Coma Score Temperature Temperature Method Level of Responsiveness (AVPU) Pain Scale Score Pain Scale Type Stroke Scale Score Stroke Scale Type Reperfusion Checklist APGAR Revised Trauma Score EMS Agency Unique State ID EMS Agency Number EMS Agency Name State Certification/Licensure Levels EMS Certification Levels Permitted to Perform Each Procedure Procedures Permitted by the State EMS Certification Levels Permitted to Administer Each Medication Medications Permitted by the State Protocols Permitted by the State State Collected Element Type of Facility Facility Name Facility Location Code Hospital

Designations Facility National Provider Identifier Facility Room, Suite, or Apartment Facility Street Address Facility City Facility State Facility ZIP Code Facility County Facility Country Facility GPS Location Facility US National Grid Coordinates Facility Phone Number Software Creator Software Name Software Version State Agency Demographic Custom Data Element Title Agency Demographic Custom Definition Agency Demographic Custom Data Type Agency Demographic Custom Data Element Recurrence Agency Demographic Custom Data Element Usage Agency Demographic Custom Data Element Potential Values Agency Demographic Custom Data Element Potential NOT Values (NV) Agency Demographic Custom Data Element Potential Pertinent Negative Values (PN) Agency Demographic Custom Data Element Grouping ID Patient Care Report Custom Data Element Title Patient Care Report Custom Definition Patient Care Report Custom Data Type Patient Care Report Custom Data Element Recurrence Patient Care Report Custom Data Element Usage Patient Care Report Custom Data Element Potential Values Patient Care Report Custom Data Element Potential NOT Values (NV) Patient Care Report Custom Data Element Potential Pertinent Negative Values (PN) Patient Care Report Custom Data Element Grouping ID

Let

\$nemSch_elements =
\$nemSch_lookup_elements//*:nemSch_lookup_elements

Key

nemSch_key_elements: match "nem:element" using "@name"

Comment

PHASES

Comment

No phases.

Comment

PATTERNS

Comment

DIAGNOSTICS

Comment

PROPERTIES

Properties

Pattern et3_completeness_eTimes.08

Title

Transfer of EMS Patient Care Date/Time should be recorded when Crew Disposition is "Initiated Primary Care and Transferred to Another Provider on Scene (non-EMS)" or "... to Telehealth Provider".

Rule et3_completeness_eTimes.08_rule1

Context nem:PatientCareReport[nem:eCustomResults/nem:eCustomResults.ResultsGroup[nem:eCustomResults.01 = ('4229901', '4229902') and nem:eCustomResults.02 = 'eDisposition.29']]

Let \$nemsisElements = nem:eTimes/nem:eTimes.08

Let \$nemsisElementsMissingContext = nem:eTimes

Let \$nemsisElementsMissing = 'eTimes.08'

Assert et3_e001

Warning

Subject nem:eDisposition/nem:eDisposition.IncidentDispositionGroup/nem:eDisposition.29,
nem:eCustomResults/nem:eCustomResults.ResultsGroup[nem:eCustomResults.02 = 'eDisposition.29']/(nem:eCustomResults.01, nem:eCustomResults.02), nem:eTimes/nem:eTimes.08

Test nem:eTimes/nem:eTimes.08 != "

`<sch:value-of select="key('nemSch_key_elements', 'eTimes.08', $nemSch_elements)"/>`
should be recorded when `<sch:value-of select="key('nemSch_key_elements', 'eDisposition.29', $nemSch_elements)"/>` is "Initiated Primary Care and Transferred to Another Provider on Scene (non-EMS)" or "... to Telehealth Provider".

Pattern et3_completeness_ePatient.02

Title

Last Name should be recorded when Patient Evaluation/Care is "Patient Evaluated and Care Provided".

Rule et3_completeness_ePatient.02_rule1

Context nem:PatientCareReport[nem:eDisposition/nem:eDisposition.IncidentDispositionGroup/nem:eDisposition.28 = '4228001']

Let \$nemsisElements =
nem:ePatient/nem:ePatient.PatientNameGroup/nem:ePatient.02

Let \$nemsisElementsMissingContext =
nem:ePatient/nem:ePatient.PatientNameGroup

Let \$nemsisElementsMissing = 'ePatient.02'

Assert et3_e002

Warning

Subject nem:eDisposition/nem:eDisposition.IncidentDispositionGroup/nem:eDisposition.28,
nem:ePatient/nem:ePatient.PatientNameGroup/nem:ePatient.02

Test nem:ePatient/nem:ePatient.PatientNameGroup/nem:ePatient.02[.
!= " or @PN]

<sch:value-of select="key('nemSch_key_elements', 'ePatient.02', \$nemSch_elements)"/> should be recorded when <sch:value-of select="key('nemSch_key_elements', 'eDisposition.28', \$nemSch_elements)"/> is "Patient Evaluated and Care Provided".

Pattern et3_completeness_ePatient.03

Title

First Name should be recorded when Patient Evaluation/Care is "Patient Evaluated and Care Provided".

Rule et3_completeness_ePatient.03_rule1

Context nem:PatientCareReport[nem:eDisposition/nem:eDisposition.IncidentDispositionGroup/nem:eDisposition.28 = '4228001']

Let \$nemsisElements =
nem:ePatient/nem:ePatient.PatientNameGroup/nem:ePatient.03

Let \$nemsisElementsMissingContext =
nem:ePatient/nem:ePatient.PatientNameGroup

Let \$nemsisElementsMissing = 'ePatient.03'

Assert et3_e003

Warning

Subject nem:eDisposition/nem:eDisposition.IncidentDispositionGroup/nem:eDisposition.28,
nem:ePatient/nem:ePatient.PatientNameGroup/nem:ePatient.03

Test nem:ePatient/nem:ePatient.PatientNameGroup/nem:ePatient.03[
!= " or @PN]

<sch:value-of select="key('nemSch_key_elements', 'ePatient.03', \$nemSch_elements)"/> should be recorded when <sch:value-of select="key('nemSch_key_elements', 'eDisposition.28', \$nemSch_elements)"/> is "Patient Evaluated and Care Provided".

Pattern et3_completeness_ePatient.17

Title

Date of Birth should be recorded when Patient Evaluation/Care is "Patient Evaluated and Care Provided".

Rule et3_completeness_ePatient.17_rule1

Context nem:PatientCareReport[nem:eDisposition/nem:eDisposition.IncidentDispositionGroup/nem:eDisposition.28 = '4228001']

Let \$nemsisElements = nem:ePatient/nem:ePatient.17

Let \$nemsisElementsMissingContext = nem:ePatient

Let \$nemsisElementsMissing = 'ePatient.17'

Assert et3_e004

Warning

Subject nem:eDisposition/nem:eDisposition.IncidentDispositionGroup/nem:eDisposition.28, nem:ePatient/nem:ePatient.17

Test nem:ePatient/nem:ePatient.17[. != " or @PN]

<sch:value-of select="key('nemSch_key_elements', 'ePatient.17', \$nemSch_elements)"/> should be recorded when <sch:value-of select="key('nemSch_key_elements', 'eDisposition.28', \$nemSch_elements)"/> is "Patient Evaluated and Care Provided".

Pattern et3_completeness_ePayment.01

Title

Primary Method of Payment should be recorded when Crew Disposition is "Initiated Primary Care and Transferred to Another Provider on Scene (non-EMS)" or "... to Telehealth Provider".

Comment

Existing national rule covers "Treated, Transported by This EMS Unit"

Rule et3_completeness_ePayment.01_rule1

Context

nem:PatientCareReport[nem:eCustomResults/nem:eCustomResults.ResultsGroup[nem:eCustomResults.01 = ('4229901', '4229902') and nem:eCustomResults.02 = 'eDisposition.29']]

Let

\$nemsisElements = nem:ePayment/nem:ePayment.01

Assert et3_e005

Warning

Subject

nem:eDisposition/nem:eDisposition.IncidentDispositionGroup/nem:eDisposition.29,
nem:eCustomResults/nem:eCustomResults.ResultsGroup[nem:eCustomResults.02 = 'eDisposition.29']/(nem:eCustomResults.01, nem:eCustomResults.02), nem:ePayment/nem:ePayment.01

Test

nem:ePayment/nem:ePayment.01 != "

<sch:value-of select="key('nemSch_key_elements', 'ePayment.01', \$nemSch_elements)"/> should be recorded when <sch:value-of select="key('nemSch_key_elements', 'eDisposition.29', \$nemSch_elements)"/> is "Initiated Primary Care and Transferred to Another Provider on Scene (non-EMS)" or "... to Telehealth Provider".

Pattern et3_completeness_eDisposition.21

Title

Type of Destination (the type of provider to whom care was transferred) should be recorded when Crew Disposition is "Initiated Primary Care and Transferred to Another Provider on Scene (non-EMS)" or "... to Telehealth Provider".

Comment

Existing national rule covers "Treated, Transported by This EMS Unit"

Rule et3_completeness_eDisposition.21_rule1

Context

nem:PatientCareReport[nem:eCustomResults/nem:eCustomResults.ResultsGroup[nem:eCustomResults.01 = ('4229901', '4229902') and nem:eCustomResults.02 = 'eDisposition.29']]

Let

\$nemsisElements = nem:eDisposition/nem:eDisposition.21

Assert et3_e006

Warning

Subject

nem:eDisposition/nem:eDisposition.IncidentDispositionGroup/nem:eDisposition.29,
nem:eCustomResults/nem:eCustomResults.ResultsGroup[nem:eCustomResults.02 = 'eDisposition.29']/(nem:eCustomResults.01, nem:eCustomResults.02), nem:eDisposition/nem:eDisposition.21

Test

nem:eDisposition/nem:eDisposition.21 != "

`<sch:value-of select="key('nemSch_key_elements', 'eDisposition.21', $nemSch_elements)"/>` (the type of provider to whom care was transferred) should be recorded when `<sch:value-of select="key('nemSch_key_elements', 'eDisposition.29', $nemSch_elements)"/>` is "Initiated Primary Care and Transferred to Another Provider on Scene (non-EMS)" or "... to Telehealth Provider".

Pattern et3_completeness_et3Disposition.01

Title

ET3 Alternative Disposition Offer and Result should be recorded when Primary Method of Payment is "Medicare".

Comment

This rule fires on PCRs with a Unit Notified Date/Time on or after January 1, 2021

Rule et3_completeness_et3Disposition.01_rule1

Context

nem:PatientCareReport[nem:ePayment/nem:ePayment.01 = '2601005'
and nem:eTimes/nem:eTimes.03 >= '2021-01-01']

Let

\$nemsisElements = nem:eDisposition/nem:et3Disposition.01

Let

\$nemsisElementsMissingContext =
nem:eCustomResults/nem:eCustomResults.ResultsGroup

Let

\$nemsisElementsMissing = 'eCustomResults.01 eCustomResults.02'

Assert et3_e007

Warning

Test

nem:eCustomResults/nem:eCustomResults.ResultsGroup[nem:eCustomResults.01 != "" and nem:eCustomResults.02 = 'et3Disposition.01']

ET3 Alternative Disposition Offer and Result should be recorded when `<sch:value-of select="key('nemSch_key_elements', 'ePayment.01', $nemSch_elements)"/>` is "Medicare".

Pattern et3_consistency_et3Disposition.01

Title

Type of Destination (the type of provider to whom care was transferred) should be "Qualified Health Care Partner" when Crew Disposition is "Initiated Primary Care and Transferred to Another Provider on Scene (non-EMS)" or "... to Telehealth Provider".

Rule et3_consistency_et3Disposition.01_rule1

Context

```
nem:eCustomResults[nem:eCustomResults.ResultsGroup[nem:eCustomResults.01 = ('4229901', '4229902') and nem:eCustomResults.02 = 'eDisposition.29']]
```

Let

```
$nemsisElements = ancestor::PatientCareReport/nem:eDisposition/nem:eDisposition.21, nem:eCustomResults.ResultsGroup[nem:eCustomResults.02 = 'eDisposition.21']/(nem:eCustomResults.01, nem:eCustomResults.02)
```

Let

```
$nemsisElementsMissingContext = ../nem:eCustomResults/nem:eCustomResults.ResultsGroup
```

Let

```
$nemsisElementsMissing = . [not(nem:eCustomResults.ResultsGroup[nem:eCustomResults.02 = 'eDisposition.21'])]/'eCustomResults.01 eCustomResults.02'
```

Assert et3_e008

Warning

Test

```
nem:eCustomResults.ResultsGroup[nem:eCustomResults.01 = '4221902' and nem:eCustomResults.02 = 'eDisposition.21']
```

`<sch:value-of select="key('nemSch_key_elements', 'eDisposition.21', $nemSch_elements)"/>` (the type of provider to whom care was transferred) should be "Qualified Health Care Partner" when `<sch:value-of select="key('nemSch_key_elements', 'eDisposition.29', $nemSch_elements)"/>` is "Initiated Primary Care and Transferred to Another Provider on Scene (non-EMS)" or "... to Telehealth Provider".

Pattern et3_custom_EMSDataset

Title

ET3 custom element data should match ET3 specifications

Rule et3_custom_eDisposition.29_rule1

Context nem:eCustomResults.ResultsGroup[nem:eCustomResults.01 = ('4229901', '4229902') and nem:eCustomResults.02 = 'eDisposition.29']

Let \$nemsisElements = nem:eCustomResults.01, nem:eCustomResults.02, ancestor::nem:PatientCareReport/nem:eDisposition/nem:eDisposition.IncidentDispositionGroup/nem:eDisposition.29

Assert et3_e009

Warning

Test ancestor::nem:PatientCareReport/nem:eDisposition/nem:eDisposition.IncidentDispositionGroup/nem:eDisposition.29 = '4229003'

The correct NEMESIS fallback code should be used when an ET3 custom value is recorded for `<sch:value-of select="key('nemSch_key_elements', 'eDisposition.29', $nemSch_elements)"/>`.

Assert et3_e010

Warning

Test not(nem:eCustomResults.01[2] or preceding-sibling::nem:eCustomResults.ResultsGroup[nem:eCustomResults.01 = ('4229901', '4229902') and nem:eCustomResults.02 = 'eDisposition.29'])

A custom value permitted by ET3 for `<sch:value-of select="key('nemSch_key_elements', 'eDisposition.29', $nemSch_elements)"/>` should not occur more than once on a PCR.

Rule et3_custom_eDisposition.21_rule1

Context nem:eCustomResults.ResultsGroup[nem:eCustomResults.01 = ('4221901', '4221902', '4221903') and nem:eCustomResults.02 = 'eDisposition.21']

Let \$nemsisElements = nem:eCustomResults.01, nem:eCustomResults.02, ancestor::nem:PatientCareReport/nem:eDisposition/nem:eDisposition.21

Assert et3_e011

Warning

Test

```
(not(nem:eCustomResults.01 = ('4221901', '4221903')) or  
ancestor::nem:PatientCareReport/nem:eDisposition/nem:eDispositi  
on.21 = '4221007') and (not(nem:eCustomResults.01 = ('4221902'))  
or  
ancestor::nem:PatientCareReport/nem:eDisposition/nem:eDispositi  
on.21 = '4221013')
```

The correct NEMESIS fallback code should be used when an ET3 custom value is recorded for `<sch:value-of select="key('nemSch_key_elements', 'eDisposition.21', $nemSch_elements)"/>`.

Assert et3_e012

Warning

Test

```
not(nem:eCustomResults.01[2] or preceding-  
sibling::nem:eCustomResults.ResultsGroup[nem:eCustomResults.01  
= ('4221901', '4221902', '4221903') and nem:eCustomResults.02 =  
'eDisposition.21'])
```

A custom value permitted by ET3 for `<sch:value-of select="key('nemSch_key_elements', 'eDisposition.21', $nemSch_elements)"/>` should not occur more than once on a PCR.

Rule et3_custom_et3Disposition.01_rule1

Context

```
nem:eCustomResults.ResultsGroup[nem:eCustomResults.02 =  
'et3Disposition.01']
```

Let

```
$nemsisElements = nem:eCustomResults.01, nem:eCustomResults.02
```

Assert et3_e013

Warning

Test

```
nem:eCustomResults.01 = ('et3Disposition.01.01',  
'et3Disposition.01.02', 'et3Disposition.01.03')
```

ET3 Alternative Disposition Offer and Result should be a value permitted by ET3.

Assert et3_e014

Warning

Test

```
not(nem:eCustomResults.01[2] or preceding-  
sibling::nem:eCustomResults.ResultsGroup[nem:eCustomResults.02  
= 'et3Disposition.01'])
```

ET3 Alternative Disposition Offer and Result should not occur more than once on a PCR.

Pattern et3_sequence_time

Title

The sequence of date/time elements is appropriate (additional constraints for ET3 Project).

Comment

This pattern validates the sequence of date/time elements that are not included in the the national Schematron schema.

Rule et3_sequence_time_eTimes_order_eTimes.08

Context nem:eTimes.08[. != ""]

Let \$nemsisElements = .

Assert et3_e015

Warning

Subject ../nem:eScene/nem:eScene.05, .

Test not(ancestor::nem:PatientCareReport/nem:eScene/nem:eScene.05 and ancestor::nem:PatientCareReport/nem:eCustomResults/nem:eCustomResults.ResultsGroup[nem:eCustomResults.01 = ('4229901', '4229902') and nem:eCustomResults.02 = 'eDisposition.29']) or xs:dateTime(.) >= xs:dateTime(ancestor::nem:PatientCareReport/nem:eScene/nem:eScene.05)

<sch:value-of select="key('nemSch_key_elements', local-name(), \$nemSch_elements)"/> should not be earlier than <sch:value-of select="key('nemSch_key_elements', 'eScene.05', \$nemSch_elements)"/>.

Assert et3_e016

Warning

Subject ../nem:eSituation/nem:eSituation.01, .

Test not(ancestor::nem:PatientCareReport/nem:eSituation/nem:eSituation.01[. != ""] and ancestor::nem:PatientCareReport/nem:eCustomResults/nem:eCustomResults.ResultsGroup[nem:eCustomResults.01 = ('4229901', '4229902') and nem:eCustomResults.02 = 'eDisposition.29']) or xs:dateTime(.) >= xs:dateTime(ancestor::nem:PatientCareReport/nem:eSituation/nem:eSituation.01)

<sch:value-of select="key('nemSch_key_elements', local-name(), \$nemSch_elements)"/> should not be earlier than <sch:value-of select="key('nemSch_key_elements', 'eSituation.01', \$nemSch_elements)"/>.

Assert et3_e017

Warning

Subject	../nem:eTimes.03, .
Test	not(ancestor::nem:PatientCareReport/nem:eCustomResults/nem:eCustomResults.ResultsGroup[nem:eCustomResults.01 = ('4229901', '4229902') and nem:eCustomResults.02 = 'eDisposition.29']) or xs:dateTime(.) >= xs:dateTime(../nem:eTimes.03)

<sch:value-of select="key('nemSch_key_elements', local-name(), \$nemSch_elements)"/> should not be earlier than <sch:value-of select="key('nemSch_key_elements', 'eTimes.03', \$nemSch_elements)"/>.

Assert et3_e018

Warning

Subject	../nem:eTimes.05, .
Test	not(../nem:eTimes.05 != " and ancestor::nem:PatientCareReport/nem:eCustomResults/nem:eCustomResults.ResultsGroup[nem:eCustomResults.01 = ('4229901', '4229902') and nem:eCustomResults.02 = 'eDisposition.29']) or xs:dateTime(.) >= xs:dateTime(../nem:eTimes.05)

<sch:value-of select="key('nemSch_key_elements', local-name(), \$nemSch_elements)"/> should not be earlier than <sch:value-of select="key('nemSch_key_elements', 'eTimes.05', \$nemSch_elements)"/>.

Assert et3_e019

Warning

Subject	../nem:eTimes.06, .
Test	not(../nem:eTimes.06 != " and ancestor::nem:PatientCareReport/nem:eCustomResults/nem:eCustomResults.ResultsGroup[nem:eCustomResults.01 = ('4229901', '4229902') and nem:eCustomResults.02 = 'eDisposition.29']) or xs:dateTime(.) >= xs:dateTime(../nem:eTimes.06)

<sch:value-of select="key('nemSch_key_elements', local-name(), \$nemSch_elements)"/> should not be earlier than <sch:value-of select="key('nemSch_key_elements', 'eTimes.06', \$nemSch_elements)"/>.

Assert et3_e020

Warning

Subject	../nem:eTimes.07, .
Test	not(../nem:eTimes.07 != " and ancestor::nem:PatientCareReport/nem:eCustomResults/nem:eCustomResults.ResultsGroup[nem:eCustomResults.01 = ('4229901', '4229902') and nem:eCustomResults.02 = 'eDisposition.29']) or xs:dateTime(.) >= xs:dateTime(../nem:eTimes.07)

<sch:value-of select="key('nemSch_key_elements', local-name(), \$nemSch_elements)"/> should not be earlier than <sch:value-of select="key('nemSch_key_elements', 'eTimes.07', \$nemSch_elements)"/>.

Rule et3_sequence_time_eTimes_order_eTimes.13

Context	nem:eTimes.13[. != "]
Let	\$nemsisElements = .

Assert et3_e021 Warning

Subject	../nem:eTimes.08, .
Test	not(../nem:eTimes.08 != " and ancestor::nem:PatientCareReport/nem:eCustomResults/nem:eCustomResults.ResultsGroup[nem:eCustomResults.01 = ('4229901', '4229902') and nem:eCustomResults.02 = 'eDisposition.29']) or xs:dateTime(.) >= xs:dateTime(../nem:eTimes.08)

<sch:value-of select="key('nemSch_key_elements', local-name(), \$nemSch_elements)"/> should not be earlier than <sch:value-of select="key('nemSch_key_elements', 'eTimes.08', \$nemSch_elements)"/>.

Rule et3_sequence_time_eMedications.01

Context	nem:eMedications.01[. != "]
Let	\$nemsisElements = .

Assert et3_e022 Warning

Subject	ancestor::nem:PatientCareReport/nem:eTimes/nem:eTimes.08,/nem:eMedications.02
Test	not(ancestor::nem:PatientCareReport/nem:eTimes/nem:eTimes.08 != " and ancestor::nem:PatientCareReport/nem:eCustomResults/nem:eCustomResults.ResultsGroup[nem:eCustomResults.01 = ('4229901', '4229902') and nem:eCustomResults.02 = 'eDisposition.29']) or xs:dateTime(.) <= xs:dateTime(ancestor::nem:PatientCareReport/nem:eTimes/nem:eTimes.08)

<sch:value-of select="key('nemSch_key_elements', local-name(), \$nemSch_elements)"/>
should not be later than <sch:value-of select="key('nemSch_key_elements', 'eTimes.08',
\$nemSch_elements)"/>.

Rule et3_sequence_time_eProcedures.01

Context	nem:eProcedures.01[. != ""]
Let	\$nemsisElements = .

Assert et3_e023 Warning

Subject	ancestor::nem:PatientCareReport/nem:eTimes/nem:eTimes.08,/nem:eProcedures.02
Test	not(ancestor::nem:PatientCareReport/nem:eTimes/nem:eTimes.08 != " and ancestor::nem:PatientCareReport/nem:eCustomResults/nem:eCustomResults.ResultsGroup[nem:eCustomResults.01 = ('4229901', '4229902') and nem:eCustomResults.02 = 'eDisposition.29']) or xs:dateTime(.) <= xs:dateTime(ancestor::nem:PatientCareReport/nem:eTimes/nem:eTimes.08)

<sch:value-of select="key('nemSch_key_elements', local-name(), \$nemSch_elements)"/>
should not be later than <sch:value-of select="key('nemSch_key_elements', 'eTimes.08',
\$nemSch_elements)"/>.

Rule et3_sequence_time_eVitals.01

Context	nem:eVitals.01[. != ""]
Let	\$nemsisElements = .

Assert et3_e024 Warning

Subject	ancestor::nem:PatientCareReport/nem:eTimes/nem:eTimes.08, ../nem:eVitals.02
Test	<pre>not(ancestor::nem:PatientCareReport/nem:eTimes/nem:eTimes.08 != " and ancestor::nem:PatientCareReport/nem:eCustomResults/nem:eCustomResults.ResultsGroup[nem:eCustomResults.01 = ('4229901', '4229902') and nem:eCustomResults.02 = 'eDisposition.29']) or xs:dateTime(.) <= xs:dateTime(ancestor::nem:PatientCareReport/nem:eTimes/nem:eTimes.08)</pre>

<sch:value-of select="key('nemSch_key_elements', local-name(), \$nemSch_elements)"/> should not be later than <sch:value-of select="key('nemSch_key_elements', 'eTimes.08', \$nemSch_elements)"/>.

<!-- This is the NEMESIS national diagnostic. It must exist in every NEMESIS Schematron document, and it should be referenced by every assert and report. It provides nationally-standardized, structured data to communicate which data elements are of interest in a failed assert or successful report. -->

<nemsisDiagnostic>

<!-- Elements that uniquely identify the record where the problem happened. -->

<record>

<xsl:copy-of select="ancestor-or-self::*:StateDataSet/*:sState/*:sState.01"/>

<xsl:copy-of select="ancestor-or-self::*:DemographicReport/*:dAgency/(/*:dAgency.01 | *:dAgency.02 | *:dAgency.04)"/>

<xsl:copy-of select="ancestor-or-self::*:Header/*:DemographicGroup/*"/>

<xsl:copy-of select="ancestor-or-self::*:PatientCareReport/*:eRecord/*:eRecord.01"/>

<xsl:if test="ancestor-or-self::*[@UUID]">

<UUID><xsl:value-of select="ancestor-or-self::*[@UUID][1]/@UUID"/></UUID>

</xsl:if>

</record>

<!-- Elements that the user may want to revisit to resolve the problem, along with their values. -->

<elements>

<xsl:for-each select="\$nemsisElements">

<xsl:element name="element">

<xsl:attribute name="location">

<xsl:apply-templates select="." mode="schematron-get-full-path"/>

</xsl:attribute>

<xsl:for-each select="@*">

<xsl:attribute name="{name()}">

<xsl:value-of select="."/>

</xsl:attribute>

</xsl:for-each>

<xsl:if test="not(*)">

<xsl:value-of select="."/>

</xsl:if>

</xsl:element>

</xsl:for-each>

</elements>

<!-- Elements that were missing, that the user may want to visit to resolve the problem. -->

<elementsMissing>

```
<xsl:variable name="default_context" select="."/>
<xsl:for-each select="tokenize($nemsisElementsMissing, ' ')">
  <xsl:variable name="parent" select="$nemsisElementsMissingContext[contains(local-name(),
substring-before(current(), '.'))][1]"/>
  <element>
    <xsl:attribute name="parentLocation">
      <xsl:choose>
        <xsl:when test="$parent">
          <xsl:apply-templates select="$parent" mode="schematron-get-full-path"/>
        </xsl:when>
        <xsl:otherwise>
          <xsl:apply-templates select="$default_context" mode="schematron-get-full-path"/>
        </xsl:otherwise>
      </xsl:choose>
    </xsl:attribute>
    <xsl:attribute name="name">
      <xsl:value-of select="."/>
    </xsl:attribute>
  </element>
</xsl:for-each>
</elementsMissing>

</nemsisDiagnostic>
```