

emsCharts Guide to NEMESIS v3 Updates

Version 1.2

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Configuration / Required Fields / Sample Values

For the most part, all of these fields appear on the patient record and **we do not have configuration options that turn them on/off**. Configuration options are slated to be put into place as they are requested and recommended by users.

Some of the fields do have configuration options already. Below are the items that are configurable and the level of agency access that controls them:

- Date/Time: Dispatch Acknowledgement & Call Completed by Service
- Referring / Receiving: Mode Descriptors by Service
- Referring / Receiving: Hospital Designation by Service
- Pertinent Negatives by Service
- Patient: Last Oral Intake by Command Facility
- Page 2 CC/HPI: Other Complaints by Command Facility
- Page8 Intubation / Airway: Reasons for Failure by Command Facility
- Page 8 Intubation: Indications by Command Facility
- Patient: CMS fields by Service via existing billing configuration options.
- Page 2 CC/HPI: Instructions Given determined by Command Facility mappings of Outcomes

None of the new NEMESIS fields are required by regulatory bodies (e.g. regions/states) at the time that this document was written; however certain fields may be required based on their grouping. For example, seat belt usage is not required, but in order to complete, you must select which seat you’re talking about. Likewise, under Patient Information you can enter an email address, but you must select a type of email address: work or personal.

Lastly, for certain fields, “Sample Values” are provided. They are simplified versions of the NEMSIS values that appear in the chart. **Please reference the NEMSIS Data Dictionary for the entire list and full versions of the sample values.**

Page 1 → Dispatch → General

- New single select field: “Ambulance Transport Code”
 - Definition: Indicator about the type of transport of the patient.
 - Sample values: Initial Trip, Return Trip, Round Trip
- If Standby is selected as the Primary Type of Service, “Standby Purpose” becomes available.
 - Definition: The main reason the EMS Unit is on Standby as the Primary Type of Service for the EMS event.
 - Sample values: Disaster Event-Drill/Exercise, Fire Support-Rehab, Mass Gathering-Fair/Community Event, etc.

Page 1 → Dispatch → Referring/Receiving

- New multi-select field under Referring Mode named “Mode Descriptors”
 - Definition: The documentation of transport mode techniques for this EMS response.
 - Sample values: Intersection Navigation-Against Normal Light Patterns, Speed – Normal Traffic
- New multi-select field under Receiving Mode named “Mode Descriptors”
 - Definition: The documentation of response mode techniques for this EMS response.
 - Sample values: Intersection Navigation-Against Normal Light Patterns, Speed – Normal Traffic
- Referring “Other” Only (and Common Addresses)
 - “Apt./Suite/Room”. Max 15 characters.
 - “Mile Post/Major Roadway”. Max 35 characters.
 - “Cross Street / Directions”. Max 50 characters.
 - A single select field named COUNTRY to appear after County. Defaults to value in Service COUNTRY or US if blank.
 - “Census Tract”. This will contain 11 numbers in the standard census tract format. emsCharts will research web service to auto-fill these results. However, NEMSIS has provided data files to load into the system for lookup.
- We have expanded “Other” address fields (address, city, state, county, zip, and the above) into EMS for better tracking of rendezvous locations .
- Receiving “Hospital” a new single select field named “Designation”
 - Definition: The designation associated with the hospital for this transport
 - Sample values: Behavioral Health, General, STEMI, Trauma Level I, etc.

Page 1 → Times

- New Date/Time field between Dispatch and En-route called “Acknowledged”.
 - Configuration read from Services Chart tab: Normal, Default Unused, Do Not Show
 - Definition: The date/time the dispatch was acknowledged by the EMS Unit.

- New Date/Time field between Leave Scene and Arrive Receiving called “At Landing”.
 - Air Units only
 - Definition: The date/time the Air Medical vehicle arrived at the destination landing area.
- New Date/Time field after In Quarters named “Call Completed”
 - Definition: The date/time the responding unit completed all tasks associated with the event including transfer of the patient, and such things as cleaning and restocking.

Patient Information → Patient

- On the main patient page underneath County is “Census Tract”. This field contains 11 numbers which represent the patient’s Census Tract. Similar to the previously mentioned referring census tract.
- For patients & relatives, a single select field “COUNTRY”
 - It will default to United States if blank.
- This new field (COUNTRY) renders “International” address checkbox useless, so it has been removed.

Patient Information → PMHX/Meds/Allergies

- New single date field: “Last Oral Intake”. Appears underneath “Obtained” above Current Medications”. This captures the date/time of the last oral intake of any medication - not each medication.

Patient Information → Employer

- New single-select field under City/State/Zip named “Country”. Same as other country fields.

Patient Information → Email

- New button that opens a new window to enter patients email addresses and types.
- This field will contain the patient’s email address (.+@.+) pattern up to 100 characters.
- The user can enter multiple emails and denote them as personal or work.

Patient Information → Billing Information

- New text field (with button) named “Prior Authorization Payer”:
 - Similar operation to “Insurance Carrier field” should allow for a custom entry, in text box but pressing the button pulls up a list of payers the patient has selected in the “Billing Information” company field. This should not be the full list of insurance carriers, but only the ones selected for that patient.
 - Definition: The Payer who has provided the Prior Authorization Code.
- New text field named “Transport Authorization Code”. Only 1 per chart.
 - String between 2 and 52 characters inclusive
 - Definition: Prior authorization code provided by the insurance carrier/payer.

- “Medical Necessity Signed” renamed to “PCS / Medical Necessity Signed” and moved to new CMS/Payment
- New date/time field named “Date PCS Signed”
 - Definition: The date the Physician Certification Statement was signed
- New multi-select field named “PCS Reason”
 - Definition: The reason for EMS transport noted on the Physician Certification Statement
 - Sample values: Bed Confined, Danger to self/others, pain on movement, etc.
- New single-select field named “PCS Provider Type”
 - Definition: The type of healthcare provider who signed the Physician Certification Statement
 - Sample values: Clinical Nurse Specialist, Discharge Planner, Registered Nurse, etc.
- 2 new text boxes named “PCS Signatory First Name” and “Last Name”:
 - Definition: The first/last name of the healthcare provider who signed the Physician Certification Statement.

Patient Information → Neonatal

- None. Please see the TechNote for “Critical Care Updates II”
- Support → Support Documentation → TechNotes

Patient Information → CMS / Payment

- New section to include CMS & Payment specific information including the following fields.
- New Multi-Select “CMS Transport Reason” field underneath CMS Condition Code field.
 - Definition: The CMS Ambulance Transport Reason Code for the transport.
 - Sample values: Patient was transported to the nearest facility for care of symptoms, complaints, or both; Patient was transported for the benefit of preferred physician, etc.
- New Multi-Select “Ambulance Conditions Indicator” field underneath CMS Transport Reason
 - Definition: Documentation of the CRC03 through CRC07 requirements for CMS billing using X12 transactions.
 - Sample values: Patient was admitted to hospital, Patient was bed confined before the ambulance service, Patient had visible hemorrhaging
- A text field called “Mileage to Closest Hospital”
 - Between (inclusive) 1 and 1000 with max 2 decimal digits.
 - Definition: The mileage to the closest hospital facility from the scene. Documented only if the patient was transported to a facility farther away than the closest hospital.
- A text field called “Round Trip Purpose Descr”. 2-80 characters inclusive.
 - This field should only appear if Round Trip was selected for Amb. Transport Code under Dispatch.
 - Description: Free text description providing the purpose of the round trip EMS transport based on CR109 field for CMS.

- Moved CMS Condition Code, Condition Code Modifier, and Custom Base Fee from CC, SC, and HPI to this new section.

Page 2 → CC, SC, and HPI

- Move CMS Condition Code, Condition Code Modifier and Custom Base Fee to CMS/Payment section.
- New multi-select field & textbox named “Instructions Given”.
 - Definition: Information provided to patient during disposition for patients not transported or treated.
 - If “Other” is selected then a textbox of max 255 characters should appear to allow user to type a free form answer.
 - Sample values: Contact 911 or see your Doctor if problem returns, See your doctor within the next week, etc.
- Repeatable “Other Complaint” section will include “Other Complaint” and Duration/Duration Units similar to the Secondary Complaint section. However, you can add more than 1 Other Complaint.
 - This will go below the Secondary Complaint section and will be available if Command Facility Other Complaints = Yes.
 - The max value in the duration field can be 365.
 - The max value in the complaint field is 255 characters. This will also change the max length value in Chief Complaint and Secondary Complaint as well. NEMESIS v2 will only export the first 50.

Page 2 → Impression/Diagnosis

- None. Please see the TechNote for “Critical Care Updates II”
- Support → Support Documentation → TechNotes

Page 2 → Chief Complaint

- New multiple select Field “Patient Activity”
 - Definition: The activity the patient was involved in at the time the patient experienced the onset of symptoms or experienced an injury.
 - Sample values: Walking, football, sewing, laundry.

Page 2 → Injury Details

- New multi-select field named “Trauma Center Criteria”.
 - Definition: Field Triage Criteria for transport to a trauma center as defined by the Centers for Disease Control and Prevention and the American College of Surgeons-Committee on Trauma.

- Sample values: Amputation proximal to wrist or ankle, GCS < 14, Two or more proximal long-bone fractures, etc.

Page 2 → MVI → Crash Notification

- New subsection “Automated Collision Notification”
 - Single select box named “Vehicle Body Type”
 - Definition: The Automated Collision Notification Vehicle Body Type.
 - Sample values: Passenger car, Bus, etc.
 - Single select box named “Vehicle Year”
 - Values from 1900 to the current year+1 .
 - Text box named “Vehicle Mfg.” (max 100 characters).
 - Textbox named “Vehicle Make” (max 100 characters)
 - Textbox named “Vehicle Model” (max 100 characters)
 - Single select box named “Was ACN Used”. Values are 0=No and 1=Yes. Defaults to No.
- The following fields only appear if “Was ACN Used is set to Yes:
 - Text box named “ACN System/Company”. Max length=30 characters.
 - Text box named “ACN Incident ID”. Max length 100.
 - Multi-select box named ACN Callback Numbers. Allows multiple entries of two fields:
 - Field 1: “Call Back Phone Num” – Formatted as [2-9][0-9][0-9]-[2-9][0-9][0-9]-[0-9][0-9][0-9] Phone number
 - Field 2: “Phone Type” – Home, Work, Fax, Pager Mobile, etc.
 - Date field named “Date/Time of ACN Incident”.
 - 2 Text boxes to capture the LAT & LON of “ACN Incident GPS”
 - Yes/No select box named “Multiple Impacts Reported”.
 - Multi-select box named ACN Delta Velocity
 - Definition: The Automated Collision Notification Delta Velocity (Delta V) force associated with the crash.
 - Field 1: “Delta V Force” which is an integer from 0 to 999
 - Field 2: “Measured In”: kph or mph
 - New Yes/No “ACN High Prob. of Injury”.
 - Definition: The Automated Collision Notification of the High Probability of Injury.
 - New Single select dropdown “Principal Direction of Force”.
 - Values are 1 through 12
 - Definition: The Automated Collision Notification Principal Direction of Force (PDOF).
 - New Single Select dropdown “ACN Rollover”
 - Values are null (default), N=No, Y=Yes
 - Definition: The Automated Collision Notification Indication that the Vehicle Rolled Over.
 - Multi-select box named ACN Seat Occupation: Allows multiple grouped entries of 4 fields:

- New Single select dropdown “ACN Seat Location” (required)
 - Definition: The Automated Collision Notification Indication of the Occupant(s) Seat Location(s) within the vehicle.
 - Sample values: Driver Front Seat, Second Row Right Seat, etc.
- New Single select dropdown “ACN Seat Occupied”
 - Values are null (default), N=No, Y=Yes
- New Single select “ACN Seatbelt Use”
 - Values are null (default), N=No, Y=Yes
- New Single select “ACN Airbag Deployed”
 - Values are null (default), N=No, Y=Yes

Page 2 → Cardiac Arrest

- New single-select field named “AED Use”. Appears below “Resuscitation”.
 - Definition: Documentation of AED use Prior to EMS Arrival
 - Values: No, Yes w/ Defibrillation, Yes w/o Defib.
- New multi-select field named “AED By”. Appears below “AED Use”
 - Similar to other PTA “By” items: Other Caregiver, Lay Person, etc.
- New Field, Multi-Select named “CPR Type”. Appears below CPR.
 - Definition: Documentation of the type/technique of CPR used by EMS.
 - Sample values: Compressions Continuous, Ventilation-Impedance Threshold Device, etc.
- New Field, Single select named “Therapeutic Hypothermia”
 - Values are N/A, Yes, No
 - Definition: Documentation of EMS initiation of Therapeutic Hypothermia.
- New Field, Single select named “Result of Arrest Event”
 - Definition: The patient's outcome at the end of the EMS event.
 - Sample values: Expired in ED, Expired in the Field, Ongoing Resuscitation in ED
- Change “Who Witnessed” to Multi-Select.
 - Definition: Indication of who witnessed cardiac event
 - Sample values: Witnessed by Family Member, Witnessed by Healthcare Provider, etc.
- Change “CPR By” to Multi-Select
 - Definition: Documentation of who performed CPR prior to this EMS unit's arrival.
 - Sample values: First Responder (Fire, Law, EMS), Healthcare Professional (Non-EMS), Lay Person (Non-Family), etc.

Page 2 → Scene

- New single select Yes/No dropdown named “First Agency Unit On Scene”
 - Definition: Documentation that this EMS Unit was the first EMS Unit for the EMS Agency on the Scene

Page 2 → Patient Movement

- New multiple-select field “Transport Assessment”

- Definition: Documentation of the patient's transport need based on mobility and/or physical capability.
- Sample values: Unable to sit without assistance, Unable to stand without assistance, etc.
- New text field max 80 characters “Stretcher Purpose”.
 - Definition: Free Text Documentation providing the reason for use of a stretcher in the EMS patient transport.

Page 3 → Neuro/Airway

- None.

Page 4 → Resp/Cardio

- None.

Page 5 → Exams

- **The mobile v3 version of the anatomical exam will be used.** All NEMSIS v3 values have been mapped down to NEMSIS v2 values for v2 exporting.
- Also, NEMSIS v2 had a difference between “Injuries” and “Assessments”. NEMSIS v3 has combined them into the assessments. There is only 1 state that requires anything with “Injuries”

Page 5 → Drains, Obstetrics, Burns

- None.

Page 6 → Labs, Imaging, Fluids

- Please see the TechNote for “Critical Care Updates II” for details on adding additional Lab values and a new feature called “Imaging”. These are NEMSIS v3 items that CCT also requested.
- Support → Support Documentation → TechNotes

Page 7 → PTA - Meds/IV

- Please see Pertinent Negatives TechNote for new medication and procedure PTA items.
- Support → Support Documentation → TechNotes

Page 8 → Activity Log / Vitals

- Many Pertinent Negatives appear on this page. Please see Pertinent Negatives TechNote for more details.
 - Support → Support Documentation → TechNotes
- Also, please see the TechNote for “Critical Care Updates II” for updates to Drains, Labs, Ventilator, etc.
 - Support → Support Documentation → TechNotes
- New Basic Vital Sign, multiple select named “ECG Method”
 - Definition: The method of ECG interpretation.
 - Sample values: Computer Interpretation, Manual, Transmission w/ No Interpretation.
- Renamed “Method” to “BP Method”

- New single select field “HR Method”
 - Definition: The method in which the Heart Rate was measured.
 - Sample values: auscultated, palpated, electronic monitor, etc.
- Possibly New Advanced Vital: “CO” (Carbon Monoxide).
 - Number 0 – 100 inclusive.
 - Definition: The patient's carbon monoxide level measured in parts per million (ppm).
 - Note: emsCharts has a field spCO which is similar, but not the same. It is a % called Carboxyhemoglobin, which measures CO but is not CO as described above.

Page 8 → New Procedures

- Coming Soon.

Page 8 → Procedures – Airway & Intubation

- Complications for the Airway & Intubation windows will now have separate list than other procedure complications.
 - Definition: The airway management complications encountered during the patient care episode.
 - Sample values: Adverse Event from Facilitating Drugs, Failed Intubation Effort, Tube Was Not in Correct Position when EMS Crew/Team Assumed Care of the Patient, etc.
- New multi-select field for both Airway & Intubation named “Reasons for Failure”.
 - This field should appear if “Successful?” is set to No and should be empty & disappear if “Successful?” is set to yes.
 - Definition: The reason(s) the airway was unable to be successfully managed.
 - Sample values: Difficult Patient Airway Anatomy, Jaw Clenched (Trismus), Secretions/Blood/Vomit, etc.

Page 8 → Procedures – Intubation Only

- New multi-select “Indications”.
 - Definition: The clinical indication for performing invasive airway management.
 - Sample values: Adequate Airway Reflexes/Effort – Potential for Compromise, Apnea or Agonal Respirations, Ventilatory Effort Compromised, etc.

Page 8 → Procedures – Decision

- New Procedure Type called “Decision”. Currently NEMSIS appears to have two “decision” procedures; items not necessarily an action, but the process of thinking:
 - “Decision to Manage”.
 - Definition: The date and time the decision was made to manage the patient's airway with an invasive airway device.
 - “Abandoned”.
 - Definition: The date and time that the invasive airway attempts were abandoned for the patient.

Page 8 → Procedures - Hosp. Notify

- Renamed “Alert Type” to “Activation Alert”
 - Definition: Activation by EMS of the appropriate destination healthcare facility team. The activation should occur prior to the EMS Unit arrival at the destination with the patient.
 - In order to export, command will have to map custom alerts to NEMESIS standard values.
 - Sample values: Adult Trauma, Cardiac Arrest, Obstetrics, Other, STEMI, etc.

Patient Follow-up

- This section is moved out from Page 9 onto the main menu to encourage usage and easier access. It was already there for hospital users.
- New table containing a repeatable pair of fields:
 - Single-select “External Report ID/Number Type”
 - Sample values: Disaster Tag, Fire Incident Report, Hospital-Receiving, Hospital-Transferring, Law Enforcement Report, STEMI registry, etc.
 - Some of these were already in the chart in other places: Fire, Law, etc. The values will carry over to this form as read-only.
 - Text box to record value of other number type if “Other” is selected. Will be otherwise hidden. Max 50 characters.
 - Text box for “External Report ID/Number”. Max 100 characters.
- Single-select Emergency Department Disposition
- Single-select Hospital Disposition
- Single-select Neurological Outcome (possibly / NEMESIS v2)
- Text field Emergency Department Chief Complaint.
 - Definition: The patient's reason for seeking care or attention, expressed in the terms as close as possible to those used by the patient or responsible informant.
 - Max 100 characters.
- Text field First ED Systolic Blood Pressure. Range 0-500.
- Single-select ED Cause of Injury
 - Definition: The documented cause of injury from the emergency department record
 - List from ICD-10 CM values.
- Multi-select ED Procedures
 - Definition: The procedures performed on the patient during the emergency department visit.
 - List of ICD-10-PCS values.
- Multi-select ED Diagnosis.
 - Definition: The practitioner's description of the condition or problem for which Emergency Department services were provided.
 - For old charts, the notation of Primary and Secondary will still appear, for new charts only a list will appear.

- Date/Time of Hospital Admission
- Multi-select Hospital Procedures
 - Definition: Hospital Procedures performed on the patient during the hospital admission.
 - List of ICD-10-PCS values.
- Multi-select Hospital Diagnosis.
 - Definition: The hospital diagnosis of the patient associated with the hospital admission
 - For old charts, the notation of Primary, Secondary will still appear, for new charts only a list will appear.
- Text field Total ICU Length of Stay (in days).
 - Definition: The total number of patient days in any ICU (including all ICU episodes).
 - Range from 1 to 400.
- Text field Total Ventilator Days.
 - Definition: The total number of patient days spend on a mechanical ventilator (excluding time in the operating room).
 - Range from 1 to 400.
- Date/Time of Hospital Discharge
- Single-select of Outcome at Discharge
 - Definition: The patient's functional status at time of hospital discharge.
 - Sample values: No Symptoms At All, No significant disability despite symptoms; able to carry out all usual duties and activities, Severe disability; bedridden, incontinent and requiring constant nursing care and attention.

Validations via Schematron

- A new close chart validation system will be implemented with NEMESIS v3. This will enable NEMESIS and states to provide files directly to emsCharts to enforce business rules.

ICD-9 vs. ICD-10 Changes

- Page 1 → Referring/Receiving Incident Type. (Future: Not part of the April 8th update)
 - List: ICD-10-CM
 - Replaces NEMESISv2 list of Farm, Street, Clinic, etc. Old charts will show old values but can only select new values - old values will be hidden and non-selectable for new charts.
 - NEMESIS v2 Impact: NEMESIS v2 didn't use ICD-9 for this field, so no impact.
- Page 2 → Impression/Diagnosis→Symptoms (Primary & Other) (Future: Not part of the April 8th update)
 - List: ICD-10-CM
 - Replaces NEMESISv2 list of Breathing Problem, Choking, Wound, etc. Old charts will show old values but can only select new values - old values will be hidden and non-selectable for new charts.
 - NEMESIS v2 Impact: We will map down to NEMESIS v2 list and export that. States with custom symptoms will have to be evaluated.

- Page 2 → Injury Details → Injury Cause (**Future: Not part of the April 8th update**)
 - List: ICD-10-CM
 - Replaces NEMESISv2 ICD-9 based list of Aircraft, Chemical Poisoning etc. Although this list was ICD9-based, the export required the **NEMESIS code**, NOT the ICD9 value. Old charts will show old values but can only select new values - old values will be hidden and non-selectable for new charts.
 - NEMESIS v2 Impact: We will provide the new list and map backwards to ICD-9 previous values for NEMESIS v2 exporting. This means "new charts" (starting with the rollout of the pages) will select values from the ICD-10 list, but billing export data will be dictated by the type of export (NEMESIS for NEMESIS2, ICD10 for NEMESIS3)
- Page 2 → Impression/Diagnosis → Impressions (Primary & Secondary) (**Future: Not part of the April 8th update**)
 - List: ICD-10-CM
 - Replaces NEMESISv2 list of Aircraft related accident, Chemical poisoning, drowning, etc. Old charts will show old values but can only select new values - old values will be hidden and non-selectable for new charts.
 - NEMESIS v2 Impact: We will provide the new list and map backwards to previous NEMESIS values for NEMESIS v2 exporting.
- Page 2 → Chief Complaint → Patient Activity
 - List: ICD-10-CM
 - New Field
 - NEMESIS v2 Impact: New field, so no impact / will not export
- Patient Follow-up → ED Recorded Cause of Injury
 - List: ICD-10-CM
 - New Field
 - NEMESIS v2 Impact: New field, so no impact / will not export
- Patient Follow-up → ED Procedures & Hospital Procedures (2 fields)
 - List: ICD-10-PCS
 - New Field
 - NEMESIS v2 Impact: New field, so no impact / will not export
- Patient Follow-up → ED Diagnosis & Hospital Diagnosis (2 fields)
 - List: ICD-10-CM
 - Similar to regular diagnosis fields. However, there is NO DEFINED LIST at this time by NEMESIS, so the data entry personnel should enter in the appropriate ICD-10 code(s).
- Page 2 → CMS Condition Code (**Future: Not part of the April 8th update**)
 - List: ICD-10-CM
 - Replaces NEMESISv2 ICD-9 based list of Aircraft, Chemical Poisoning etc. Although this list was ICD9-based, the export required the **NEMESIS code**, NOT the ICD9 value. Old charts will show old values but can only select new values - old values will be hidden and non-selectable for new charts.

- NEMESIS v2 Impact: We will provide the new list and map backwards to previous NEMESIS values for NEMESIS v2 exporting.
- Patient Page → Medication Allergies (**Future: Not part of the April 8th update**)
 - List: ICD-10 (10) / RxNorm
 - Replaces Text-Only list of allergies. There are 10 allowed ICD-10 allergy codes, but most will be RxNorm.
 - NEMESIS v2 Impact: NEMESIS v2 sent a string for the allergy, so there will be no effect on that as we will continue to send the string.
- Special Note: NEMESIS v3 Procedures are SNOMEDCT based, not ICD-10 based.

Pertinent Negatives

- This feature allows users to indicate what they didn't perform or couldn't obtain, etc.
- Must be enabled by the Service Administrator on the Chart Tab
 - Configuration → Chart tab
 - "Use Pertinent Negatives" = Yes

Existing Fields with New Values

- This list will be in addition to any changes previously outlined by additional/modified field definitions and ICD-10 updates.