NEMSIS V3 Case Definition

General Filters

# Date

August 31, 2021  
February 1, 2022 (Added missing values for air transport in v3.5.0 “Transport” filter)  
June 27, 2023 (Added filters for Response Mode and Transport Mode: emergent and non-emergent)

# Introduction

In addition to the basic criteria for each NEMSIS case definition, it is common to add criteria that further filter the record selection for specific performance improvement or research needs. This document provides code for commonly used filters.

In some cases, the general filters are different in NEMSIS versions 3.4.0 and 3.5.0.

* Filters labeled “v3.4.0” are only compatible with NEMSIS version 3.4.0.
* Filters labeled “v3.5.0” are only compatible with NEMSIS version 3.5.0.
* Filters labeled “v3.4.0 and v3.5.0” are compatible with NEMSIS versions 3.4.0 and 3.5.0 and can be used to query datasets that contain a mix of both versions.

In XPath code, the context element is /EMSDataSet/Header/PatientCareReport.

In SAS code, the statements are within the proc sql procedure.

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# Type of Service Requested

## Emergency Response (Primary Response Area)

v3.4.0 and v3.5.0:

|  |  |
| --- | --- |
| XPath | eResponse/eResponse.ServiceGroup/eResponse.05 = '2205001' |
| SAS | select \* from nemsis.pub\_pcrEvents where eDisposition\_05 = '2205001'; |

## Interfacility Transfer, Medical Transport

v3.5.0:

|  |  |
| --- | --- |
| XPath | eResponse/eResponse.ServiceGroup/eResponse.05 =   ('2205005', '2205007', '2205015', '2205017', '2205019') |
| SAS | select \* from nemsis.pub\_pcrEvents where eResponse\_05 in   ('2205005', '2205007', '2205015', '2205017', '2205019'); |

v3.4.0:

|  |  |
| --- | --- |
| XPath | eResponse/eResponse.ServiceGroup/eResponse.05 = ('2205005', '2205007') |
| SAS | select \* from nemsis.pub\_pcrEvents where eResponse\_05 in    ('2205005', '2205007'); |

v3.4.0 and v3.5.0:

|  |  |
| --- | --- |
| XPath | eResponse/eResponse.ServiceGroup/eResponse.05 =  ('2205005', '2205007', '2205015', '2205017', '2205019') |
| SAS | select \* from nemsis.pub\_pcrEvents where eResponse\_05 in    ('2205005', '2205007', '2205015', '2205017', '2205019'); |

# Unit Transport and Equipment Capability (v3.5.0) Primary Role of the Unit (v3.4.0) Level of Care of This Unit (v3.4.0)

## Transport

v3.5.0:

|  |  |
| --- | --- |
| XPath | eResponse/eResponse.07 = ('2207011', '2207013', '2207015', '2207017', '2207019', '2207025') |
| SAS | select \* from nemsis.pub\_pcrEvents where eResponse\_07 in    ('2207011', '2207013', '2207015', '2207017', '2207019', '2207025'); |

v3.4.0:

|  |  |
| --- | --- |
| XPath | eResponse/eResponse.07 = ('2207003', '2207011', '2207013') |
| SAS | select \* from nemsis.pub\_pcrEvents where eResponse\_07 in    ('2207003', '2207011', '2207013'); |

v3.4.0 and v3.5.0:

|  |  |
| --- | --- |
| XPath | eResponse/eResponse.07 = ('2207003', '2207011', '2207013', '2207015',    '2207017', '2207019', '2207025') |
| SAS | select \* from nemsis.pub\_pcrEvents where eResponse\_07 in ('2207003',    '2207011', '2207013', '2207015', '2207017', '2207019', '2207025'); |

## Non-transport

v3.5.0:

|  |  |
| --- | --- |
| XPath | eResponse/eResponse.07 = ('2207021', '2207023', '2207027') |
| SAS | select \* from nemsis.pub\_pcrEvents where eResponse\_07 in    ('2207021', '2207023', '2207027'); |

v3.4.0:

|  |  |
| --- | --- |
| XPath | eResponse/eResponse.07 = ('2207005', '2207007', '2207009') |
| SAS | select \* from nemsis.pub\_pcrEvents where eResponse\_07 in    ('2207005', '2207007', '2207009'); |

v3.4.0 and v3.5.0:

|  |  |
| --- | --- |
| XPath | eResponse/eResponse.07 = ('2207005', '2207007', '2207009', '2207021',    '2207023', '2207027') |
| SAS | select \* from nemsis.pub\_pcrEvents where eResponse\_07 in ('2207005',    '2207007', '2207009', '2207021', '2207023', '2207027'); |

## Ground

v3.5.0:

|  |  |
| --- | --- |
| XPath | eResponse/eResponse.07 = ('2207015', '2207017', '2207019', '2207021',    '2207023', '2207025', '2207027') |
| SAS | select \* from nemsis.pub\_pcrEvents where eResponse\_07 in ('2207015',    '2207017', '2207019', '2207021', '2207023', '2207025', '2207027'); |

v3.4.0:

|  |  |
| --- | --- |
| XPath | eResponse/eResponse.07 = ('2207003', '2207005', '2207007', '2207009') |
| SAS | select \* from nemsis.pub\_pcrEvents where eResponse\_07 in    ('2207003', '2207005', '2207007', '2207009'); |

v3.4.0 and v3.5.0:

|  |  |
| --- | --- |
| XPath | eResponse/eResponse.07 = ('2207003', '2207005', '2207007', '2207009',    '2207015', '2207017', '2207019', '2207021', '2207023', '2207025',    '2207027') |
| SAS | select \* from nemsis.pub\_pcrEvents where eResponse\_07 in ('2207003',    '2207005', '2207007', '2207009', '2207015', '2207017', '2207019',    '2207021', '2207023', '2207025', '2207027'); |

## Air

v3.4.0 and v3.5.0:

|  |  |
| --- | --- |
| XPath | eResponse/eResponse.07 = ('2207011', '2207013') |
| SAS | select \* from nemsis.pub\_pcrEvents where eResponse\_07 in    ('2207011', '2207013'); |

## BLS

v3.5.0:

|  |  |
| --- | --- |
| XPath | eResponse/eResponse.07 = ('2207017', '2207023') |
| SAS | select \* from nemsis.pub\_pcrEvents where eResponse\_07 in    ('2207017', '2207023'); |

v3.4.0:

|  |  |
| --- | --- |
| XPath | eResponse/eResponse.15 =    ('2215001', '2215003', '2215005', '2215007', '22150023') |
| SAS | select \* from nemsis.pub\_pcrEvents where eResponse\_15 in    ('2215001', '2215003', '2215005', '2215007', '22150023'); |

v3.4.0 and v3.5.0:

|  |  |
| --- | --- |
| XPath | eResponse/eResponse.07 = ('2207017', '2207023')  or  eResponse/eResponse.15 = ('2215001', '2215003', '2215005', '2215007',    '22150023') |
| SAS | select \* from nemsis.pub\_pcrEvents where    eResponse\_07 in ('2207017', '2207023')    or    eResponse\_15 in ('2215001', '2215003', '2215005', '2215007',      '22150023'); |

## ALS

v3.5.0:

|  |  |
| --- | --- |
| XPath | eResponse/eResponse.07 = ('2207011', '2207013', '2207015' ,'2207019',    '2207021') |
| SAS | select \* from nemsis.pub\_pcrEvents where eResponse\_07 in    ('2207011', '2207013', '2207015', '2207019', '2207021'); |

v3.4.0:

|  |  |  |
| --- | --- | --- |
| XPath | eResponse/eResponse.15 = ('2215009', '2215011', '2215013', '2215015',    '2215017', '22150019', '22150021') |  |
| SAS | select \* from nemsis.pub\_pcrEvents where eResponse\_15 in ('2215009',    '2215011', '2215013', '2215015', '2215017', '22150019', '22150021'); |  |

v3.4.0 and v3.5.0:

|  |  |
| --- | --- |
| XPath | eResponse/eResponse.07 = ('2207011', '2207013', '2207015' ,'2207019',    '2207021')  or  eResponse/eResponse.15 = ('2215009', '2215011', '2215013', '2215015',    '2215017', '22150019', '22150021') |
| SAS | select \* from nemsis.pub\_pcrEvents where    eResponse\_07 in ('2207011', '2207013', '2207015', '2207019',      '2207021')    or    eResponse\_15 in ('2215009', '2215011', '2215013', '2215015',      '2215017', '22150019', '22150021'); |

## Other

v3.5.0:

|  |  |
| --- | --- |
| XPath | eResponse/eResponse.07 = ('2207025', '2207027') |
| SAS | select \* from nemsis.pub\_pcrEvents where eResponse\_07 in    ('2207025', '2207027'); |

# Response Mode to Scene

## Emergent

v3.4.0 and v3.5.0:

|  |  |
| --- | --- |
| XPath | eResponse/eResponse.23 = ('2223001', '2223007') |
| SAS | select \* from nemsis.pub\_pcrEvents where eResponse\_23 in ('2223001', '2223007'); |

## Non-emergent

v3.4.0 and v3.5.0:

|  |  |
| --- | --- |
| XPath | eResponse/eResponse.23 = ('2223003', '2223005') |
| SAS | select \* from nemsis.pub\_pcrEvents where eResponse\_23 in ('2223003', '2223005'); |

# Initial Patient Acuity

## Critical (Red)

v3.4.0 and v3.5.0:

|  |  |
| --- | --- |
| XPath | eSituation/eSituation.13 = '2813001' |
| SAS | select \* from nemsis.pub\_pcrEvents where eSituation\_13 = '2813001'; |

## Emergent (Yellow)

v3.4.0 and v3.5.0:

|  |  |
| --- | --- |
| XPath | eSituation/eSituation.13 = '2813003' |
| SAS | select \* from nemsis.pub\_pcrEvents where eSituation\_13 = '2813003'; |

## Emergent (Yellow) or Critical (Red)

v3.4.0 and v3.5.0:

|  |  |
| --- | --- |
| XPath | eSituation/eSituation.13 = ('2813001', '2813003') |
| SAS | select \* from nemsis.pub\_pcrEvents where eSituation\_13 in    ('2813003', '2813001'); |

## Lower Acuity (Green)

v3.4.0 and v3.5.0:

|  |  |
| --- | --- |
| XPath | eSituation/eSituation.13 = '2813005' |
| SAS | select \* from nemsis.pub\_pcrEvents where eSituation\_13 = '2813005'; |

## Dead without Resuscitation Efforts (Black)

v3.4.0 and v3.5.0:

|  |  |
| --- | --- |
| XPath | eSituation/eSituation.13 = '2813007' |
| SAS | select \* from nemsis.pub\_pcrEvents where eSituation\_13 = '2813007'; |

## Non-Acute/Routine

v3.5.0:

|  |  |
| --- | --- |
| XPath | eSituation/eSituation.13 = '2813009' |
| SAS | select \* from nemsis.pub\_pcrEvents where eSituation\_13 = '2813009'; |

## Alive

v3.5.0:

|  |  |
| --- | --- |
| XPath | eSituation/eSituation.13 =    ('2813001', '2813003', '2813005', '2813009') |
| SAS | select \* from nemsis.pub\_pcrEvents where eSituation\_13 in    ('2813001', '2813003', '2813005', '2813009'); |

v3.4.0:

|  |  |  |
| --- | --- | --- |
| XPath | eSituation/eSituation.13 = ('2813001', '2813003', '2813005') |  |
| SAS | select \* from nemsis.pub\_pcrEvents where eSituation\_13 in    ('2813001', '2813003', '2813005'); |  |

v3.4.0 and v3.5.0:

|  |  |
| --- | --- |
| XPath | eSituation/eSituation.13 =    ('2813001', '2813003', '2813005', '2813009') |
| SAS | select \* from nemsis.pub\_pcrEvents where eSituation\_13 in    ('2813001', '2813003', '2813005', '2813009'); |

# Patient Age

## Pediatric (less than 18 years old)

v3.4.0 and v3.5.0:

|  |  |
| --- | --- |
| XPath | ePatient/ePatient.AgeGroup[ePatient.15 != '' and    (      (ePatient.15 < 18 and ePatient.16 = '2516009')      or      ePatient.16 = ('2516001', '2516003', '2516005', '2516007')    )  ] |
| SAS | select \* from nemsis.computedElements where ageInYear lt 18; |

## Adult (18 years or older)

v3.4.0 and v3.5.0:

|  |  |
| --- | --- |
| XPath | ePatient/ePatient.AgeGroup[ePatient.15 != '' and ePatient.15 >= 18 and    ePatient.16 = '2516009'] |
| SAS | select \* from nemsis.computedElements where ageInYear ge 18; |

## Geriatric (65 years or older)

v3.4.0 and v3.5.0:

|  |  |
| --- | --- |
| XPath | ePatient/ePatient.AgeGroup[ePatient.15 != '' and ePatient.15 >= 65 and    ePatient.16 = '2516009'] |
| SAS | select \* from nemsis.computedElements where ageInYear ge 65; |

# Incident/Patient Disposition

## Patient

v3.5.0:

|  |  |  |
| --- | --- | --- |
| XPath | eDisposition/eDisposition.IncidentDispositionGroup/eDisposition.27 =    '4227001' |  |
| SAS | select \* from nemsis.pub\_pcrEvents where eDisposition\_27 = '4227001'; |  |

v3.4.0:

|  |  |  |
| --- | --- | --- |
| XPath | eDisposition/eDisposition.12 = ('4212013', '4212015', '4212017',    '4212019', '4212021', '4212023', '4212025', '4212027', '4212029',    '4212031', '4212033', '4212035', '4212037') |  |
| SAS | select \* from nemsis.pub\_pcrEvents where eDisposition\_12 in    ('4212013', '4212015', '4212017', '4212019', '4212021', '4212023',    '4212025', '4212027', '4212029', '4212031', '4212033', '4212035',    '4212037'); |  |

v3.4.0 and v3.5.0:

|  |  |
| --- | --- |
| XPath | eDisposition/eDisposition.IncidentDispositionGroup/eDisposition.27 =    '4227001'  or  eDisposition/eDisposition.12 = ('4212013', '4212015', '4212017',    '4212019', '4212021', '4212023', '4212025', '4212027', '4212029',    '4212031', '4212033', '4212035', '4212037') |
| SAS | select \* from nemsis.pub\_pcrEvents where    eDisposition\_27 = '4227001'    or    eDisposition\_12 in ('4212013', '4212015', '4212017', '4212019',      '4212021', '4212023', '4212025', '4212027', '4212029', '4212031',      '4212033', '4212035', '4212037'); |

## Patient Treated

v3.5.0:

|  |  |  |
| --- | --- | --- |
| XPath | eDisposition/eDisposition.IncidentDispositionGroup/eDisposition.28 =    '4228001' |  |
| SAS | select \* from nemsis.pub\_pcrEvents where eDisposition\_28 = '4228001'; |  |

v3.4.0:

|  |  |  |
| --- | --- | --- |
| XPath | eDisposition/eDisposition.12 = ('4212017', '4212019', '4212027',    '4212029', '4212031', '4212033', '4212035', '4212037') |  |
| SAS | select \* from nemsis.pub\_pcrEvents where eDisposition\_12 in    ('4212017', '4212019', '4212027', '4212029', '4212031', '4212033',    '4212035', '4212037'); |  |

v3.4.0 and v3.5.0:

|  |  |
| --- | --- |
| XPath | eDisposition/eDisposition.IncidentDispositionGroup/eDisposition.28 =    '4228001'  or  eDisposition/eDisposition.12 = ('4212017', '4212019', '4212027',    '4212029', '4212031', '4212033', '4212035', '4212037'); |
| SAS | select \* from nemsis.pub\_pcrEvents where    eDisposition\_28 = '4228001'    or    eDisposition\_12 in ('4212017', '4212019', '4212027', '4212029',      '4212031', '4212033', '4212035', '4212037'); |

## EMS Transport

v3.5.0:

|  |  |  |
| --- | --- | --- |
| XPath | eDisposition/eDisposition.IncidentDispositionGroup/eDisposition.30 =    ('4230001', '4230003', '4230005', '4230007') |  |
| SAS | select \* from nemsis.pub\_pcrEvents where eDisposition\_30 in    ('4230001', '4230003', '4230005', '4230007'); |  |

v3.4.0:

|  |  |  |
| --- | --- | --- |
| XPath | eDisposition/eDisposition.12 =    ('4212013', '4212017', '4212023', '4212033') |  |
| SAS | select \* from nemsis.pub\_pcrEvents where eDisposition\_12 in    ('4212013', '4212017', '4212023', '4212033'); |  |

v3.4.0 and v3.5.0:

|  |  |
| --- | --- |
| XPath | eDisposition/eDisposition.IncidentDispositionGroup/eDisposition.30 =    ('4230001', '4230003', '4230005', '4230007')  or  eDisposition/eDisposition.12 =    ('4212013', '4212017', '4212023', '4212033') |
| SAS | select \* from nemsis.pub\_pcrEvents where    eDisposition\_30 in ('4230001', '4230003', '4230005', '4230007')    or    eDisposition\_12 in ('4212013', '4212017', '4212023', '4212033'); |

## EMS Transport by This Unit

v3.5.0:

|  |  |  |
| --- | --- | --- |
| XPath | eDisposition/eDisposition.IncidentDispositionGroup[    eDisposition.28 = '4228001'    and    eDisposition.30 = ('4230001', '4230003')] |  |
| SAS | select \* from nemsis.pub\_pcrEvents where    eDisposition\_28 = '4228001'    and    eDisposition\_30 in ('4230001', '4230003'); |  |

v3.4.0:

|  |  |  |
| --- | --- | --- |
| XPath | eDisposition/eDisposition.12 = '4212033' |  |
| SAS | select \* from nemsis.pub\_pcrEvents where eDisposition\_12 = '4212033'; |  |

v3.4.0 and v3.5.0:

|  |  |
| --- | --- |
| XPath | eDisposition/eDisposition.IncidentDispositionGroup[    eDisposition.28 = '4228001'    and    eDisposition.30 = ('4230001', '4230003')]  or  eDisposition/eDisposition.12 = '4212033' |
| SAS | select \* from nemsis.pub\_pcrEvents where    (      eDisposition\_28 = '4228001'      and      eDisposition\_30 in ('4230001', '4230003')    )    or    eDisposition\_12 = '4212033'; |

## Patient Transferred to Another EMS Unit

v3.5.0:

|  |  |  |
| --- | --- | --- |
| XPath | eDisposition/eDisposition.IncidentDispositionGroup/eDisposition.29 =    '4229003' |  |
| SAS | select \* from nemsis.pub\_pcrEvents where eDisposition\_29 = '4229003'; |  |

v3.4.0:

|  |  |  |
| --- | --- | --- |
| XPath | eDisposition/eDisposition.12 = '4212031' |  |
| SAS | select \* from nemsis.pub\_pcrEvents where eDisposition\_12 = '4212031'; |  |

v3.4.0 and v3.5.0:

|  |  |
| --- | --- |
| XPath | eDisposition/eDisposition.IncidentDispositionGroup/eDisposition.29 =    '4229003'  or  eDisposition/eDisposition.12 = '4212031' |
| SAS | select \* from nemsis.pub\_pcrEvents where    eDisposition\_29 = '4229003'    or    eDisposition\_12 = '4212031'; |

# Transport Mode from Scene

## Emergent

v3.4.0 and v3.5.0:

|  |  |
| --- | --- |
| XPath | eDisposition/eDisposition.17 = ('4217001', '4217007') |
| SAS | select \* from nemsis.pub\_pcrEvents where eDisposition\_17 in ('4217001', '4217007'); |

## Non-emergent

v3.4.0 and v3.5.0:

|  |  |
| --- | --- |
| XPath | eDisposition/eDisposition.17 = ('4217003', '4217005') |
| SAS | select \* from nemsis.pub\_pcrEvents where eDisposition\_17 in ('4217003', '4217005'); |