General Filters

Date

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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:
```

Interfacility Transfer, Medical Transport

```
v3.5.0:
```

v3.4.0 and v3.5.0:

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:
              eResponse/eResponse.07 = ('2207015', '2207017', '2207019', '2207025')
XPath
SAS
              select * from nemsis.pub_pcrEvents where eResponse_07 in
                ('2207015', '2207017', '2207019', '2207025');
v3.4.0:
              eResponse/eResponse.07 = ('2207003', '2207011', '2207013')
XPath
SAS
              select * from nemsis.pub pcrEvents where eResponse 07 in
                ('2207003', '2207011', '2207013');
v3.4.0 and v3.5.0:
              eResponse/eResponse.07 = ('2207003', '2207011', '2207013', '2207015',
XPath
                '2207017', '2207019', '2207025')
              select * from nemsis.pub pcrEvents where eResponse 07 in ('2207003',
SAS
                '2207011', '2207013', '2207015', '2207017', '2207019', '2207025');
Non-transport
v3.5.0:
              eResponse/eResponse.07 = ('2207021', '2207023', '2207027')
XPath
SAS
              select * from nemsis.pub pcrEvents where eResponse 07 in
                ('2207021', '2207023', '2207027');
v3.4.0:
              eResponse/eResponse.07 = ('2207005', '2207007', '2207009')
XPath
SAS
              select * from nemsis.pub pcrEvents where eResponse 07 in
                ('2207005', '2207007', '2207009');
```

```
v3.4.0 and v3.5.0:
```

SAS

```
eResponse/eResponse.07 = ('2207005', '2207007', '2207009', '2207021',
XPath
                 '2207023', '2207027')
               select * from nemsis.pub pcrEvents where eResponse 07 in ('2207005',
SAS
                 '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:
               eResponse/eResponse.07 = ('2207003', '2207005', '2207007', '2207009')
XPath
SAS
               select * from nemsis.pub pcrEvents where eResponse 07 in
                 ('2207003', '2207005', '2207007', '2207009');
v3.4.0 and v3.5.0:
               eResponse/eResponse.07 = ('2207003', '2207005', '2207007', '2207009',
XPath
                 '2207015', '2207017', '2207019', '2207021', '2207023', '2207025',
                 '2207027')
               select * from nemsis.pub_pcrEvents where eResponse_07 in ('2207003',
 SAS
                 '2207005', '2207007', '2207009', '2207015', '2207017', '2207019', '2207021', '2207023', '2207025', '2207027');
Air
v3.4.0 and v3.5.0:
               eResponse/eResponse.07 = ('2207011', '2207013')
XPath
```

select * from nemsis.pub pcrEvents where eResponse 07 in

('2207011', '2207013');

```
BLS
v3.5.
```

```
v3.5.0:
              eResponse/eResponse.07 = ('2207017', '2207023')
XPath
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:
              eResponse/eResponse.07 = ('2207017', '2207023')
XPath
              eResponse/eResponse.15 = ('2215001', '2215003', '2215005', '2215007',
                '22150023')
SAS
              select * from nemsis.pub_pcrEvents where
                eResponse_07 in ('2207017', '2207023')
                eResponse 15 in ('2215001', '2215003', '2215005', '2215007',
                  '22150023');
ALS
v3.5.0:
              eResponse/eResponse.07 = ('2207011', '2207013', '2207015', '2207019',
XPath
                '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:

```
eResponse/eResponse.07 = ('2207011', '2207013', '2207015', '2207019',
XPath
                '2207021')
              eResponse/eResponse.15 = ('2215009', '2215011', '2215013', '2215015',
                '2215017', '22150019', '22150021')
              select * from nemsis.pub_pcrEvents where
SAS
                eResponse_07 in ('2207011', '2207013', '2207015', '2207019',
                  '2207021')
                eResponse_15 in ('2215009', '2215011', '2215013', '2215015',
                  '2215017', '22150019', '22150021');
Other
v3.5.0:
XPath
              eResponse/eResponse.07 = ('2207025', '2207027')
              select * from nemsis.pub_pcrEvents where eResponse_07 in
SAS
                ('2207025', '2207027');
```

Initial Patient Acuity

Critical (Red)

```
v3.4.0 and v3.5.0:
XPath
              eSituation/eSituation.13 = '2813001'
              select * from nemsis.pub_pcrEvents where eSituation_13 = '2813001';
SAS
Emergent (Yellow)
v3.4.0 and v3.5.0:
XPath
              eSituation/eSituation.13 = '2813003'
              select * from nemsis.pub_pcrEvents where eSituation_13 = '2813003';
SAS
Emergent (Yellow) or Critical (Red)
v3.4.0 and v3.5.0:
XPath
              eSituation/eSituation.13 = ('2813001', '2813003')
              select * from nemsis.pub_pcrEvents where eSituation_13 in
SAS
                ('2813003', '2813001');
Lower Acuity (Green)
v3.4.0 and v3.5.0:
              eSituation/eSituation.13 = '2813005'
XPath
              select * from nemsis.pub_pcrEvents where eSituation_13 = '2813005';
SAS
Dead without Resuscitation Efforts (Black)
v3.4.0 and v3.5.0:
              eSituation/eSituation.13 = '2813007'
XPath
SAS
              select * from nemsis.pub_pcrEvents where eSituation_13 = '2813007';
```

Non-Acute/Routine

```
v3.5.0:
              eSituation/eSituation.13 = '2813009'
XPath
SAS
              select * from nemsis.pub_pcrEvents where eSituation_13 = '2813009';
Alive
v3.5.0:
XPath
              eSituation/eSituation.13 =
                ('2813001', '2813003', '2813005', '2813009')
              select * from nemsis.pub_pcrEvents where eSituation_13 in
SAS
                ('2813001', '2813003', '2813005', '2813009');
v3.4.0:
XPath
              eSituation/eSituation.13 = ('2813001', '2813003', '2813005')
              select * from nemsis.pub_pcrEvents where eSituation_13 in
SAS
                ('2813001', '2813003', '2813005');
v3.4.0 and v3.5.0:
XPath
              eSituation/eSituation.13 =
                ('2813001', '2813003', '2813005', '2813009')
              select * from nemsis.pub_pcrEvents where eSituation_13 in
SAS
                ('2813001', '2813003', '2813005', '2813009');
```

Patient Age

Pediatric (less than 18 years old)

```
v3.4.0 and v3.5.0:
```

Adult (18 years or older)

v3.4.0 and v3.5.0:

```
APath
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:

Incident/Patient Disposition

Patient

```
v3.5.0:
                eDisposition/eDisposition.IncidentDispositionGroup/eDisposition.27 =
XPath
                   '4227001'
                select * from nemsis.pub_pcrEvents where eDisposition 27 = '4227001';
SAS
v3.4.0:
XPath
                eDisposition/eDisposition.12 = ('4212013', '4212015', '4212017',
                  '4212019', '4212021', '4212023', '4212025', '4212027', '4212029', '4212031', '4212033', '4212035', '4212037')
                select * from nemsis.pub pcrEvents where eDisposition 12 in
 SAS
                  ('4212013', '4212015', '4212017', '4212019', '4212021', '4212023', '4212025', '4212027', '4212029', '4212031', '4212033', '4212035',
                   '4212037');
v3.4.0 and v3.5.0:
                eDisposition/eDisposition.IncidentDispositionGroup/eDisposition.27 =
XPath
                  '4227001'
                or
                eDisposition/eDisposition.12 = ('4212013', '4212015', '4212017',
                  '4212019', '4212021', '4212023', '4212025', '4212027', '4212029', '4212031', '4212033', '4212035', '4212037')
                select * from nemsis.pub_pcrEvents where
 SAS
                  eDisposition 27 = 4227001'
                  eDisposition 12 in ('4212013', '4212015', '4212017', '4212019',
                     '4212021', '4212023', '4212025', '4212027', '4212029', '4212031',
                     '4212033', '4212035', '4212037');
Patient Treated
v3.5.0:
                eDisposition/eDisposition.IncidentDispositionGroup/eDisposition.28 =
XPath
                  '4228001'
                select * from nemsis.pub pcrEvents where eDisposition 28 = '4228001';
 SAS
```

```
v3.4.0:
              eDisposition/eDisposition.12 = ('4212017', '4212019', '4212027',
XPath
                '4212029', '4212031', '4212033', '4212035', '4212037')
              select * from nemsis.pub pcrEvents where eDisposition 12 in
SAS
                ('4212017', '4212019', '4212027', '4212029', '4212031', '4212033',
                '4212035', '4212037');
v3.4.0 and v3.5.0:
              eDisposition/eDisposition.IncidentDispositionGroup/eDisposition.28 =
XPath
                '4228001'
              or
              eDisposition/eDisposition.12 = ('4212017', '4212019', '4212027',
                '4212029', '4212031', '4212033', '4212035', '4212037');
              select * from nemsis.pub pcrEvents where
SAS
                eDisposition 28 = '4228001'
                eDisposition_12 in ('4212017', '4212019', '4212027', '4212029',
                  '4212031', '4212033', '4212035', '4212037');
EMS Transport
v3.5.0:
              eDisposition/eDisposition.IncidentDispositionGroup/eDisposition.30 =
XPath
                ('4230001', '4230003', '4230005', '4230007')
              select * from nemsis.pub_pcrEvents where eDisposition_30 in
SAS
                ('4230001', '4230003', '4230005', '4230007');
v3.4.0:
              eDisposition/eDisposition.12 =
XPath
                ('4212013', '4212017', '4212023', '4212033')
              select * from nemsis.pub pcrEvents where eDisposition 12 in
SAS
                ('4212013', '4212017', '4212023', '4212033');
```

```
v3.4.0 and v3.5.0:
```

```
eDisposition/eDisposition.IncidentDispositionGroup/eDisposition.30 =
XPath
                ('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')
                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'
                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')]
              eDisposition/eDisposition.12 = '4212033'
              select * from nemsis.pub pcrEvents where
 SAS
                  eDisposition_28 = '4228001'
                  eDisposition_30 in ('4230001', '4230003')
                or
                eDisposition_12 = '4212033';
```

Patient Transferred to Another EMS Unit

```
v3.5.0:
              eDisposition/eDisposition.IncidentDispositionGroup/eDisposition.29 =
XPath
SAS
              select * from nemsis.pub_pcrEvents where eDisposition_29 = '4229003';
v3.4.0:
XPath
              eDisposition/eDisposition.12 = '4212031'
              select * from nemsis.pub_pcrEvents where eDisposition_12 = '4212031';
SAS
v3.4.0 and v3.5.0:
              eDisposition/eDisposition.IncidentDispositionGroup/eDisposition.29 =
XPath
                 '4229003'
              or
              eDisposition/eDisposition.12 = '4212031'
SAS
              select * from nemsis.pub_pcrEvents where
                eDisposition_29 = '4229003'
                or
                eDisposition_12 = '4212031';
```