# Release Notes: NTDS Validator v2017.1.1 (Channel 109)

## Introduction

This release of the NTDS Validator is intended to be used for submissions made to the NTDB Data Center for the 2017 Admit year.  Aside from urgent fixes that may be required from time to time, this release is intended to be the only update to the Validator.

A description of the changes are broken down as follows:
- Schema changes
- Error Level changes
- Added Rules
- Deleted Rules
- Modified Rules

## A. Schema Changes

1. PrimaryECode - Retire ICD-9 field
   a. Data element is removed from the XSD
   b. All 17xx validator flags are retired
2. LocationECode - Retire ICD-9 field
   a. Data element is removed from the XSD
   b. All 18xx validator flags are retired
3. AdditionalECode - Retire ICD-9 field
   a. Data element is removed from the XSD
   b. All 19xx validator flags are retired
4. HospitalProcedure - Retire ICD-9 field
   a. Data element is removed from the XSD
   b. All 65xx validator flags are retired
5. InjuryDiagnoses - Retire ICD-9 list and field InjuryDiagnosis
   a. Data element is removed from the XSD
   b. All 69xx validator flags are retired
6. AlcoholUseIndicators - Retire field
   a. Data element is removed from the XSD
   b. All 59xx validator flags are retired
7. DrugUseIndicators - Retire list and field DrugUseIndicator
   a. Data element is removed from the XSD
   b. All 60xx validator flags are retired
8. Add new fields (See XSD for specs)

```
<DrugScreens>
        <item><DrugScreen></DrugScreen></item>
</DrugScreens>
<AlcoholScreen></AlcoholScreen>
<AlcoholScreenResult></AlcoholScreenResult>
<NationalProviderIdentifier></NationalProviderIdentifier>
```

9.  ComorbidConditions
    a.  Change list size to 26 (maxOccurs="26")
    b.  Retire values
        16   History of angina within 30 days
        17   History of myocardial infarction
        18   History of Peripheral Vascular Disease (PVD)
        27   Major psychiatric illness
        28   Drug use disorder
    c.  Add the values
        31   Anticoagulant Therapy
        32   Angina Pectoris
        33   Mental/Personality Disorder
        34   Myocardial Infarction (MI)
        35   Peripheral Arterial Disease (PAD)
        36   Substance Abuse Disorder
    d.  Change the text of the menu description (definition/use remains the same)
        19   Hypertension

10.  HospitalComplications
    a.  List size remains 22 (maxOccurs="22")
    b.  Retire values
        11   Decubitus ulcer
        13   Drug or alcohol withdrawal syndrome
        23   Superficial Surgical Site Infection
    c.  Add the value
        36   Alcohol Withdrawal Syndrome
        37   Pressure Ulcer
        38   Superficial Incisional Surgical Site Infection
    d.  Change the text of the menu description (definition/use remains the same)
        5    Acute Respiratory Distress Syndrome (ARDS)
        31   Unplanned Admission to the ICU
        33   Catheter-Associated Urinary Tract Infection (CAUTI)
        34   Central Line-Associated Bloodstream Infection (CLABSI)
        35   Ventilator-Associated Pneumonia (VAP)

11.  HospitalDischargeDisposition
    a.  Change the text of the menu description (definition/use remains the same)
        3    Discharged/Transferred to home under care of organized home health service

12.  Races
    a.  Change the maxOccurs from 2 to 6

## B. Error Level Changes

| Rule ID | NTDS Element | Previous Level | New Level | Message |
|---------|--------------|----------------|-----------|---------|
| None | | | | |

***Note**: This change now means that these fields/rules can result in a submission file rejection at NTDB Data Center web site, if present.

## C. Added Rules

| Rule ID | NTDS Element | Level | Message | Note |
|---------|--------------|-------|---------|------|
| 0903 | Race | 2 | Field cannot be Not Applicable (US only) | Use InjuryCountry to determine US (including US territories) |
| 0904 | Race | 2 | Field must be Not Applicable (non-US) | This rule is NOT implemented, however, is documented in the NTDS Data Dictionary. To be retired in 2018. |
| 1003 | Ethnicity | 2 | Field cannot be Not Applicable (US only) | Use InjuryCountry to determine US (including US territories) |
| 1004 | Ethnicity | 2 | Field must be Not Applicable (non-US) | This rule is NOT implemented, however, is documented in the NTDS Data Dictionary. To be retired in 2018. |
| 1211 | IncidentDate | 2 | Field cannot be Not Applicable | |
| 1310 | IncidentTime | 2 | Field cannot be Not Applicable | |
| 1407 | WorkRelated | 2 | Field cannot be Not Applicable | |
| 2006 | InjuryZip | 2 | Field cannot be Not Applicable | |
| 2604 | ChildSpecificRestraint | 2 | Field cannot be Not Applicable when Protective Device is 6 (Child Restraint) | |
| 2704 | AirbagDeployment | 2 | Field cannot be Not Applicable when | |

| | | | Protective Device is 8 (Airbag Present) |
|---|---|---|---|
| 3404 | TransportMode | 2 | Field cannot be Not Applicable |
| 4609 | HospitalArrivalTime | 2 | Field cannot be Not Applicable |
| 4705 | Sbp | 2 | Field cannot be Not Applicable |
| 4805 | PulseRate | 2 | Field cannot be Not Applicable |
| 4904 | Temperature | 2 | Field cannot be Not Applicable |
| 5006 | RespiratoryRate | 2 | Field cannot be Not Applicable |
| 5205 | PulseOximetry | 2 | Field cannot be Not Applicable |
| 5404 | GcsEye | 2 | Field cannot be Not Applicable |
| 5504 | GcsVerbal | 2 | Field cannot be Not Applicable |
| 5604 | GcsMotor | 2 | Field cannot be Not Applicable |
| 5706 | TotalGcs | 2 | Field cannot be Not Applicable |
| 5803 | GcsQualifier | 2 | Field cannot be Not Applicable |
| 5911 | AlcoholScreen | 1 | Value is not a valid menu option |
| 5912 | AlcoholScreen | 2 | Field cannot be blank |
| 5913 | AlcoholScreen | 2 | Field cannot be Not Applicable |
| 5931 | AlcoholScreenResult | 1 | Invalid value |
| 5932 | AlcoholScreenResult | 2 | Field cannot be blank |
| 5933 | AlcoholScreenResult | 2 | Field cannot be Not Applicable when Alcohol Screen is 1 (Yes) |
| 6011 | DrugScreen | 1 | Value is not a valid menu option |
| 6012 | DrugScreen | 2 | Field cannot be blank |
| 6013 | DrugScreen | 2 | Field cannot be Not Applicable |
| 7008 | AisPredot | 2 | Field cannot be Not Applicable |
| 7104 | AisSeverity | 2 | Field cannot be Not Applicable |
| 7303 | AisVersion | 2 | Field cannot be Not Applicable |
| 8003 | PrimaryMethodPayment | 2 | Field cannot be Not Applicable |
| 8504 | Height | 2 | Field cannot be Not Applicable |
| 8604 | Weight | 2 | Field cannot be Not Applicable |
| 8907 | PrimaryECodeIcd10 | 2 | Field cannot be Not Applicable |
| 9006 | PlaceOfInjuryCode | 2 | Field cannot be Not Applicable |
| 9801 | NationalProviderIdentifier | 1 | Invalid value |
| 9802 | NationalProviderIdentifier | 2 | Field cannot be blank |

# D. Retired Rules

| Rule ID | NTDS Element | Level | Message | Note |
|---|---|---|---|---|
| 1701 | PrimaryECode | 1 | E-Code is not a valid ICD-9-CM code | Retire field |
| 1702 | PrimaryECode | 2 | Field cannot be blank | Retire field |
| 1703 | PrimaryECode | 4 | External Cause Code should not be = (810.0, 811.0, 812.0, | Retire field |

| | | | | |
|---|---|---|---|---|
| | | | 813.0, 814.0, 815.0, 816.0, 817.0, 818.0, 819.0) and Age < 15 | |
| 1704 | PrimaryECode | 2 | Should not be 849.x (where x is 0-9) | Retire field |
| 1705 | PrimaryECode | 3 | External Cause Code should not be an activity code. Primary External Cause Code should be within the range of E800-999.9 | Retire field |
| 1801 | LocationECode | 1 | Value is not a valid menu option | Retire field |
| 1802 | LocationECode | 2 | Field cannot be blank | Retire field |
| 1901 | AdditionalECode | 1 | E-Code is not a valid ICD-9-CM code | Retire field |
| 1902 | AdditionalECode | 4 | Additional External Cause Code should not be equal to Primary External Cause Code. | Retire field |
| 1903 | AdditionalECode | 2 | Field cannot be blank | Retire field |
| 5704 | TotalGcs | 4 | ONE of the following: Initial ED/Hospital GCS - Eye, Initial ED/Hospital GCS - Verbal, or Initial ED/Hospital GCS - Motor is blank but Initial ED/Hospital GCS - Total is not 'Not Applicable' or 'Not Known/Not Recorded' | |
| 5901 | AlcoholUseIndicators | 1 | Value is not a valid menu option | Retire field |
| 5902 | AlcoholUseIndicators | 2 | Field cannot be blank | Retire field |
| 6001 | DrugUseIndicator | 1 | Value is not a valid menu option | Retire field |
| 6002 | DrugUseIndicator | 2 | Field cannot be blank | Retire field |
| 6501 | HospitalProcedure | 1 | Invalid value | Retire field |
| 6502 | HospitalProcedure | 1 | Procedures with the same code cannot have the same Hospital Procedure Start Date and Time. | Retire field |
| 6503 | HospitalProcedure | 2 | Field cannot be blank | Retire field |
| 6504 | HospitalProcedure | 4 | Field should not be Not Applicable unless patient had | Retire field |

| | | | | no procedures performed or if not coding ICD-9 | |
|---|---|---|---|---|---|
| 6901 | InjuryDiagnosis | 1 | | Invalid value | Retire field |
| 6902 | InjuryDiagnosis | 2 | | Field cannot be blank, must either (1) contain a valid ICD-9 code or (2) be Not Applicable if not coding ICD-9 | Retire field |
| 6903 | InjuryDiagnosis | 2 | | If coding with ICD-9, then at least one diagnosis must be provided and meet inclusion criteria (800 - 959.9, except for 905 - 909.9, 910 - 924.9, 930 - 939.9) | Retire field |
| 6904 | InjuryDiagnosis | 4 | | Field should not be Not Known/Not Recorded | Retire field |

# E. Modified Rules

## 1. Logic modifications

| Rule ID | Level | NTDS Element | Message | Note |
|---|---|---|---|---|
| 0609 | 2 | DateOfBirth | Date of Birth is later than Injury Date | Change from using ED/Hospital Arrival Date to Injury Date (to be consistent with Age rules) |
| 0612 | 2 | DateOfBirth | Date of Birth + 120 years must be less than Injury Date | Change from using ED/Hospital Arrival Date to Injury Date (to be consistent with Age rules) |
| 2203 | 2 | IncidentState | Field cannot be blank | Remove (US only) text and logic - Cannot be blank regardless of country |
| 2303 | 2 | IncidentCounty | Field cannot be blank | Remove (US only) text and logic - Cannot be blank regardless of country |
| 2403 | 2 | IncidentCity | Field cannot be blank | Remove (US only) text and logic - Cannot be blank regardless of country |
| 8703 | 2 | DiagnosisIcd10 | At least one diagnosis must be provided and meet inclusion criteria. (ICD-10 CM only) | Added the list of exclusion codes |
| 8706 | 2 | DiagnosisIcd10 | At least one diagnosis must be provided and meet inclusion criteria. (ICD-10 CA only) | Added the list of exclusion codes |

**2. Text change only**

| Rule ID | Level | NTDS Element | Message | Note |
|---|---|---|---|---|
| 0105 | 2 | HomeCountry | Field cannot be 'Not Known/Not Recorded' when Home ZIP/Postal Code is not 'Not Applicable' or 'Not Known/Not Recorded' | [1] Text change |
| 1405 | 4 | WorkRelated | Work-Related should be 1 (Yes) when Patient's Occupation is not 'Not Applicable' or 'Not Known/Not Recorded' | [1] Text change |
| 1406 | 4 | WorkRelated | Work-Related should be 1 (Yes) when Patient's Occupational Industry is not 'Not Applicable' or 'Not Known/Not Recorded' | [1] Text change |
| 2105 | 2 | IncidentCountry | Field cannot be 'Not Known/Not Recorded' when Incident Location ZIP/Postal Code is not 'Not Known/Not Recorded' | [1] Text change |
| 2505 | 3 | ProtectiveDevice | Protective Device should be 6 (Child Restraint) when Child Specific Restraint is not 'Not Applicable' or 'Not Known/Not Recorded' | [1] Text change |
| 2506 | 3 | ProtectiveDevice | Protective Device should be 8 (Airbag Present) when Airbag Deployment is not 'Not Applicable' or 'Not Known/Not Recorded' | [1] Text change |
| 3403 | 4 | TransportMode | Transport Mode should not be 4 (Private/Public Vehicle/Walk-in) when EMS response times are not 'Not Applicable' or 'Not Known/Not Recorded' | [1] Text change |
| 7909 | 2 | HospitalDischargeDisposition | Field cannot be 'Not Known/Not Recorded' when Hospital Arrival Date and Hospital Discharge Date are not 'Not Applicable' or 'Not Known/Not Recorded' | [1] Text change |
| 8804 | 4 | HospitalProcedureIcd10 | Field should not be Not Applicable unless patient had no procedures performed | |

[1] Revise "not: (1) blank, (2) Not Applicable, or (3) Not Known/Not Recorded" to "not "Not Applicable" or "Not Known/Not Recorded".