| Variable<br>Name  | Variable (VAR)<br>Label                          | VAR<br>Type | Range of<br>Values | Value<br>Description                                                                                                                            |
|-------------------|--------------------------------------------------|-------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| PATIENT_ID        | NHCS Patient ID                                  | Char        | ID                 | Patient Identifier assigned by NCHS. Researchers requesting linked NHCS-CMS data should use PATIENT_ID.                                         |
| PUBLICID          | NHIS Public Use ID                               | Char        | ID                 | Public-use survey participant identifier assigned by NCHS. Researchers requesting linked NHIS/LSOA II-Medicare data should use PUBLICID.        |
| SEQN              | NHANES Respondent Sequence Number                | Num         | ID                 | Public-use survey participant identifier assigned by NCHS. Researchers requesting linked NHEFS/NHANES III/NHANES-Medicare data should use SEQN. |
| RESNUM            | NNHS Resident Record (Case) Number               | Num         | ID                 | Public-use survey participant identifier assigned by NCHS. Researchers requesting linked 2004 NNHS-Medicare data should use RESNUM.             |
| SURVEY            | Survey Name and survey year/cycle                | Char        |                    |                                                                                                                                                 |
|                   |                                                  |             |                    |                                                                                                                                                 |
| FILE_YEAR4        | Year of Medicare Advantage (MA) Encounter (YYYY) | Num         | 2016               | 2016 NHCS has been linked to only 2016-2017 Medicare Data.                                                                                      |
| NCHS_ENC_JOIN_KEY | NCHS ENCOUNTER JOIN KEY                          | Num         |                    |                                                                                                                                                 |
| CLM_TYPE_CD       | Claim Type Code                                  | Char        | 4011               | Hospital Inpatient                                                                                                                              |
| RLT_COND_CD_SEQ   | Claim Related Condition Code Sequence            | Char        |                    |                                                                                                                                                 |
|                   |                                                  |             |                    |                                                                                                                                                 |
| CLM_RLT_COND_CD   | Claim Related Condition Code                     | Char        | **OTHER**          | Miscoded                                                                                                                                        |
|                   |                                                  |             | 01-16              | Insurance related                                                                                                                               |
|                   |                                                  |             | 17-30              | Special condition                                                                                                                               |
|                   |                                                  |             | 31-35              | Student status codes which are required when a patient is a dependent child over 18 years old                                                   |
|                   |                                                  |             | 36-45              | Accommodation                                                                                                                                   |
|                   |                                                  |             | 46-54              | CHAMPUS information                                                                                                                             |
|                   |                                                  |             | 55-59              | Skilled nursing facility                                                                                                                        |

| Variable<br>Name | Variable (VAR)<br>Label | VAR<br>Type | Range of<br>Values | Value<br>Description   |
|------------------|-------------------------|-------------|--------------------|------------------------|
|                  |                         |             | 60-70              | Prospective payment    |
|                  |                         |             | 71-99              | Renal dialysis setting |
|                  |                         |             | A0                 | Special program codes  |
|                  |                         |             | A1                 | Special program codes  |
|                  |                         |             | A2                 | Special program codes  |
|                  |                         |             | A3                 | Special program codes  |
|                  |                         |             | A4                 | Special program codes  |
|                  |                         |             | A5                 | Special program codes  |
|                  |                         |             | A6                 | Special program codes  |
|                  |                         |             | A7                 | Special program codes  |
|                  |                         |             | A8                 | Special program codes  |
|                  |                         |             | A9                 | Special program codes  |
|                  |                         |             | В0                 | Special program codes  |
|                  |                         |             | B1                 | Special program codes  |
|                  |                         |             | B2                 | Special program codes  |
|                  |                         |             | В3                 | Special program codes  |
|                  |                         |             | B4                 | Special program codes  |
|                  |                         |             | B5                 | Special program codes  |
|                  |                         |             | В6                 | Special program codes  |
|                  |                         |             | В7                 | Special program codes  |
|                  |                         |             | В8                 | Special program codes  |
|                  |                         |             | В9                 | Special program codes  |
|                  |                         |             | C0                 | QIO approval services  |
|                  |                         |             | C1                 | QIO approval services  |
|                  |                         |             | C2                 | QIO approval services  |
|                  |                         |             | C3                 | QIO approval services  |

| Variable<br>Name | Variable (VAR)<br>Label | VAR<br>Type | Range of<br>Values | Value<br>Description  |
|------------------|-------------------------|-------------|--------------------|-----------------------|
|                  |                         |             | C4                 | QIO approval services |
|                  |                         |             | C5                 | QIO approval services |
|                  |                         |             | C6                 | QIO approval services |
|                  |                         |             | C7                 | QIO approval services |
|                  |                         |             | C8                 | QIO approval services |
|                  |                         |             | C9                 | QIO approval services |
|                  |                         |             | D0                 | Change conditions     |
|                  |                         |             | D1                 | Change conditions     |
|                  |                         |             | D2                 | Change conditions     |
|                  |                         |             | D3                 | Change conditions     |
|                  |                         |             | D4                 | Change conditions     |
|                  |                         |             | D5                 | Change conditions     |
|                  |                         |             | D6                 | Change conditions     |
|                  |                         |             | D7                 | Change conditions     |
|                  |                         |             | D8                 | Change conditions     |
|                  |                         |             | D9                 | Change conditions     |
|                  |                         |             | E0                 | Change conditions     |
|                  |                         |             | E1                 | Change conditions     |
|                  |                         |             | E2                 | Change conditions     |
|                  |                         |             | E3                 | Change conditions     |
|                  |                         |             | E4                 | Change conditions     |
|                  |                         |             | E5                 | Change conditions     |
|                  |                         |             | E6                 | Change conditions     |
|                  |                         |             | E7                 | Change conditions     |
|                  |                         |             | E8                 | Change conditions     |
|                  |                         |             | E9                 | Change conditions     |

| Variable<br>Name | Variable (VAR)<br>Label | VAR<br>Type | Range of<br>Values | Value<br>Description |
|------------------|-------------------------|-------------|--------------------|----------------------|
|                  |                         |             | F0                 | Change conditions    |
|                  |                         |             | F1                 | Change conditions    |
|                  |                         |             | F2                 | Change conditions    |
|                  |                         |             | F3                 | Change conditions    |
|                  |                         |             | F4                 | Change conditions    |
|                  |                         |             | F5                 | Change conditions    |
|                  |                         |             | F6                 | Change conditions    |
|                  |                         |             | F7                 | Change conditions    |
|                  |                         |             | F8                 | Change conditions    |
|                  |                         |             | F9                 | Change conditions    |
|                  |                         |             | G0                 | Change conditions    |
|                  |                         |             | G1                 | Change conditions    |
|                  |                         |             | G2                 | Change conditions    |
|                  |                         |             | G3                 | Change conditions    |
|                  |                         |             | G4                 | Change conditions    |
|                  |                         |             | G5                 | Change conditions    |
|                  |                         |             | G6                 | Change conditions    |
|                  |                         |             | G7                 | Change conditions    |
|                  |                         |             | G8                 | Change conditions    |
|                  |                         |             | G9                 | Change conditions    |
|                  |                         |             | H0                 | Change conditions    |
|                  |                         |             | H1                 | Change conditions    |
|                  |                         |             | H2                 | Change conditions    |
|                  |                         |             | H3                 | Change conditions    |
|                  |                         |             | H4                 | Change conditions    |
|                  |                         |             | H5                 | Change conditions    |

| Variable<br>Name | Variable (VAR)<br>Label | VAR<br>Type | Range of<br>Values | Value<br>Description |
|------------------|-------------------------|-------------|--------------------|----------------------|
|                  |                         |             | H6                 | Change conditions    |
|                  |                         |             | H7                 | Change conditions    |
|                  |                         |             | H8                 | Change conditions    |
|                  |                         |             | Н9                 | Change conditions    |
|                  |                         |             | 10                 | Change conditions    |
|                  |                         |             | l1                 | Change conditions    |
|                  |                         |             | 12                 | Change conditions    |
|                  |                         |             | 13                 | Change conditions    |
|                  |                         |             | 14                 | Change conditions    |
|                  |                         |             | 15                 | Change conditions    |
|                  |                         |             | 16                 | Change conditions    |
|                  |                         |             | 17                 | Change conditions    |
|                  |                         |             | 18                 | Change conditions    |
|                  |                         |             | 19                 | Change conditions    |
|                  |                         |             | J0                 | Change conditions    |
|                  |                         |             | J1                 | Change conditions    |
|                  |                         |             | J2                 | Change conditions    |
|                  |                         |             | J3                 | Change conditions    |
|                  |                         |             | J4                 | Change conditions    |
|                  |                         |             | J5                 | Change conditions    |
|                  |                         |             | J6                 | Change conditions    |
|                  |                         |             | J7                 | Change conditions    |
|                  |                         |             | J8                 | Change conditions    |
|                  |                         |             | J9                 | Change conditions    |
|                  |                         |             | K0                 | Change conditions    |
|                  |                         |             | K1                 | Change conditions    |

| Variable<br>Name | Variable (VAR)<br>Label | VAR<br>Type | Range of<br>Values | Value<br>Description |
|------------------|-------------------------|-------------|--------------------|----------------------|
|                  |                         |             | K2                 | Change conditions    |
|                  |                         |             | K3                 | Change conditions    |
|                  |                         |             | K4                 | Change conditions    |
|                  |                         |             | K5                 | Change conditions    |
|                  |                         |             | K6                 | Change conditions    |
|                  |                         |             | K7                 | Change conditions    |
|                  |                         |             | K8                 | Change conditions    |
|                  |                         |             | K9                 | Change conditions    |
|                  |                         |             | L0                 | Change conditions    |
|                  |                         |             | L1                 | Change conditions    |
|                  |                         |             | L2                 | Change conditions    |
|                  |                         |             | L3                 | Change conditions    |
|                  |                         |             | L4                 | Change conditions    |
|                  |                         |             | L5                 | Change conditions    |
|                  |                         |             | L6                 | Change conditions    |
|                  |                         |             | L7                 | Change conditions    |
|                  |                         |             | L8                 | Change conditions    |
|                  |                         |             | L9                 | Change conditions    |
|                  |                         |             | M0                 | Change conditions    |
|                  |                         |             | M1                 | Change conditions    |
|                  |                         |             | M2                 | Change conditions    |
|                  |                         |             | M3                 | Change conditions    |
|                  |                         |             | M4                 | Change conditions    |
|                  |                         |             | M5                 | Change conditions    |
|                  |                         |             | M6                 | Change conditions    |
|                  |                         |             | M7                 | Change conditions    |

| Variable<br>Name | Variable (VAR)<br>Label | VAR<br>Type | Range of<br>Values | Value<br>Description |
|------------------|-------------------------|-------------|--------------------|----------------------|
|                  |                         |             | M8                 | Change conditions    |
|                  |                         |             | M9                 | Change conditions    |
|                  |                         |             | N0                 | Change conditions    |
|                  |                         |             | N1                 | Change conditions    |
|                  |                         |             | N2                 | Change conditions    |
|                  |                         |             | N3                 | Change conditions    |
|                  |                         |             | N4                 | Change conditions    |
|                  |                         |             | N5                 | Change conditions    |
|                  |                         |             | N6                 | Change conditions    |
|                  |                         |             | N7                 | Change conditions    |
|                  |                         |             | N8                 | Change conditions    |
|                  |                         |             | N9                 | Change conditions    |
|                  |                         |             | 00                 | Change conditions    |
|                  |                         |             | 01                 | Change conditions    |
|                  |                         |             | O2                 | Change conditions    |
|                  |                         |             | O3                 | Change conditions    |
|                  |                         |             | O4                 | Change conditions    |
|                  |                         |             | O5                 | Change conditions    |
|                  |                         |             | O6                 | Change conditions    |
|                  |                         |             | 07                 | Change conditions    |
|                  |                         |             | O8                 | Change conditions    |
|                  |                         |             | O9                 | Change conditions    |
|                  |                         |             | P0                 | Change conditions    |
|                  |                         |             | P1                 | Change conditions    |
|                  |                         |             | P2                 | Change conditions    |
|                  |                         |             | P3                 | Change conditions    |

| Variable<br>Name | Variable (VAR)<br>Label | VAR<br>Type | Range of<br>Values | Value<br>Description |
|------------------|-------------------------|-------------|--------------------|----------------------|
|                  |                         |             | P4                 | Change conditions    |
|                  |                         |             | P5                 | Change conditions    |
|                  |                         |             | P6                 | Change conditions    |
|                  |                         |             | P7                 | Change conditions    |
|                  |                         |             | P8                 | Change conditions    |
|                  |                         |             | P9                 | Change conditions    |
|                  |                         |             | Q0                 | Change conditions    |
|                  |                         |             | Q1                 | Change conditions    |
|                  |                         |             | Q2                 | Change conditions    |
|                  |                         |             | Q3                 | Change conditions    |
|                  |                         |             | Q4                 | Change conditions    |
|                  |                         |             | Q5                 | Change conditions    |
|                  |                         |             | Q6                 | Change conditions    |
|                  |                         |             | Q7                 | Change conditions    |
|                  |                         |             | Q8                 | Change conditions    |
|                  |                         |             | Q9                 | Change conditions    |
|                  |                         |             | R0                 | Change conditions    |
|                  |                         |             | R1                 | Change conditions    |
|                  |                         |             | R2                 | Change conditions    |
|                  |                         |             | R3                 | Change conditions    |
|                  |                         |             | R4                 | Change conditions    |
|                  |                         |             | R5                 | Change conditions    |
|                  |                         |             | R6                 | Change conditions    |
|                  |                         |             | R7                 | Change conditions    |
|                  |                         |             | R8                 | Change conditions    |
|                  |                         |             | R9                 | Change conditions    |

| Variable<br>Name | Variable (VAR)<br>Label | VAR<br>Type | Range of<br>Values | Value<br>Description |
|------------------|-------------------------|-------------|--------------------|----------------------|
|                  |                         |             | S0                 | Change conditions    |
|                  |                         |             | S1                 | Change conditions    |
|                  |                         |             | S2                 | Change conditions    |
|                  |                         |             | S3                 | Change conditions    |
|                  |                         |             | S4                 | Change conditions    |
|                  |                         |             | S5                 | Change conditions    |
|                  |                         |             | S6                 | Change conditions    |
|                  |                         |             | S7                 | Change conditions    |
|                  |                         |             | S8                 | Change conditions    |
|                  |                         |             | S9                 | Change conditions    |
|                  |                         |             | T0                 | Change conditions    |
|                  |                         |             | T1                 | Change conditions    |
|                  |                         |             | T2                 | Change conditions    |
|                  |                         |             | T3                 | Change conditions    |
|                  |                         |             | T4                 | Change conditions    |
|                  |                         |             | T5                 | Change conditions    |
|                  |                         |             | Т6                 | Change conditions    |
|                  |                         |             | T7                 | Change conditions    |
|                  |                         |             | Т8                 | Change conditions    |
|                  |                         |             | Т9                 | Change conditions    |
|                  |                         |             | U0                 | Change conditions    |
|                  |                         |             | U1                 | Change conditions    |
|                  |                         |             | U2                 | Change conditions    |
|                  |                         |             | U3                 | Change conditions    |
|                  |                         |             | U4                 | Change conditions    |
|                  |                         |             | U5                 | Change conditions    |

| Variable<br>Name | Variable (VAR)<br>Label | VAR<br>Type | Range of<br>Values | Value<br>Description |
|------------------|-------------------------|-------------|--------------------|----------------------|
|                  |                         |             | U6                 | Change conditions    |
|                  |                         |             | U7                 | Change conditions    |
|                  |                         |             | U8                 | Change conditions    |
|                  |                         |             | U9                 | Change conditions    |
|                  |                         |             | V0                 | Change conditions    |
|                  |                         |             | V1                 | Change conditions    |
|                  |                         |             | V2                 | Change conditions    |
|                  |                         |             | V3                 | Change conditions    |
|                  |                         |             | V4                 | Change conditions    |
|                  |                         |             | V5                 | Change conditions    |
|                  |                         |             | V6                 | Change conditions    |
|                  |                         |             | V7                 | Change conditions    |
|                  |                         |             | V8                 | Change conditions    |
|                  |                         |             | V9                 | Change conditions    |
|                  |                         |             | W0                 | Change conditions    |
|                  |                         |             |                    |                      |