# Package 'edgedata'

May 8, 2026

**Type** Package

**Title** Datasets that Support the EDGE Server DIY Logic

**Version** 0.2.0

**Description** Datasets from most recent CCIIO DIY entry
in a tidy format. These support the Centers for Medicare and Medicaid
Services' (CMS) risk adjustment Do-It-Yourself (DIY) process, which allows
health insurance issuers to calculate member risk profiles under the Health
and Human Services-Hierarchical Condition Categories (HHS-HCC) regression
model. This regression model is used to calculate risk adjustment transfers.
Risk adjustment is a selection mitigation program implemented under the
Patient Protection and Affordable Care Act (ACA or Obamacare) in the USA.
Under the ACA, health insurance issuers submit claims data to CMS in order
for CMS to calculate a risk score under the HHS-HCC regression model.
However, CMS does not inform issuers of their average risk score until after
the data submission deadline. These data sets can be used by issuers to
calculate their average risk score mid-year. More information about risk
adjustment and the HHS-HCC model can be found here:
<https://www.cms.gov/mmrr/Articles/A2014/MMRR2014_004_03_a03.html>.

**License** GPL-3

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 7.1.1

**Depends** R (>= 4.0)

**NeedsCompilation** no

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**Repository** CRAN

**Date/Publication** 2021-02-26 22:00:09 UTC

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`adult_demo` *Adult Demographic Factors - Table 9*

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## Description

A dataset containing the adult model demographic factors for the risk adjustment model. Demographics vary by age (groupings) and sex.

## Usage

```
adult_demo
```

## Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 18 rows and 9 columns

**used** Whether or not the category is used in the RA model

**plat, gold, silver, bronze, cat** Demographic risk score for each metal level

**sex** Male/Female demographic category

**age_min, age_max** Maximum and minimum age for each risk score

## Source

Data import and cleaning at: https://github.com/EeethB/edgedata/tree/main/data-raw

## See Also

Other factors: adult_enroll_dur, adult_group, adult_hcc, adult_interaction, adult_rxc_hcc_inter, adult_rxc, child_demo, child_group, child_hcc, infant_demo, infant_mat_sev

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adult_enroll_dur *Adult Enrollment Duration Factors - Table 9*

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## Description

A dataset containing the adult model enrollment duration factors for the risk adjustment model. Risk score is increased for members with less than 12 months' duration due to risk that is present but not accounted for in diagnoses and prescriptions during the enrollment window.

## Usage

```
adult_enroll_dur
```

## Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 11 rows and 7 columns

**used** Whether or not the category is used in the RA model

**plat, gold, silver, bronze, cat** Enrollment duration risk score for each metal level

**months** Number of enrollment months for each risk score

## Source

Data import and cleaning at: https://github.com/EeethB/edgedata/tree/main/data-raw

## See Also

Other factors: adult_demo, adult_group, adult_hcc, adult_interaction, adult_rxc_hcc_inter, adult_rxc, child_demo, child_group, child_hcc, infant_demo, infant_mat_sev

## adult_group *Adult HCC Grouping Factors - Table 9*

### Description

A dataset containing the adult model HCC grouping factors for the risk adjustment model. Some condition categories have been grouped together, so that any number of HCCs within that group are zeroed out and replaced by the group.

### Usage

```
adult_group
```

### Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 17 rows and 7 columns

**group** Group label for risk scores

**used** Whether or not the category is used in the RA model

**plat, gold, silver, bronze, cat** HCC grouping risk score for each metal level

### Source

Data import and cleaning at: https://github.com/EeethB/edgedata/tree/main/data-raw

### See Also

Other factors: adult_demo, adult_enroll_dur, adult_hcc, adult_interaction, adult_rxc_hcc_inter, adult_rxc, child_demo, child_group, child_hcc, infant_demo, infant_mat_sev

Other HCC tables: adult_hcc, adult_interaction, adult_rxc_hcc_inter, cc_hier, child_group, child_hcc, cpt_hcpcs, icd_cc

## adult_hcc *Adult HCC Factors - Table 9*

### Description

A dataset containing the adult model HCC factors for the risk adjustment model. Condition categories (CCs) are triggered by ICD-10 codes (See icd_cc), and a hierarchy is then applied (See cc_hier), creating hierarchical condition categories (HCCs).

### Usage

```
adult_hcc
```

### Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 128 rows and 7 columns

**used** Whether or not the category is used in the RA model

**plat, gold, silver, bronze, cat** HCC grouping risk score for each metal level

**hcc** HCC label for risk scores (Includes leading zeroes)

### Source

Data import and cleaning at: https://github.com/EeethB/edgedata/tree/main/data-raw

### See Also

Other factors: adult_demo, adult_enroll_dur, adult_group, adult_interaction, adult_rxc_hcc_inter, adult_rxc, child_demo, child_group, child_hcc, infant_demo, infant_mat_sev

Other HCC tables: adult_group, adult_interaction, adult_rxc_hcc_inter, cc_hier, child_group, child_hcc, cpt_hcpcs, icd_cc

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## adult_interaction *Adult Interaction Factors - Table 9*

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### Description

A dataset containing the adult model interaction factors for the risk adjustment model. Certain HCCs are considered "high risk" HCCs, and when one of these high risk HCCs interacts with certain other HCCs, an additional interaction term is added to the risk score.

### Usage

```
adult_interaction
```

### Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 2 rows and 7 columns

**int_group** Interaction group (M/H)

**used** Whether or not the category is used in the RA model

**plat, gold, silver, bronze, cat** HCC grouping risk score for each metal level

### Source

Data import and cleaning at: https://github.com/EeethB/edgedata/tree/main/data-raw

## See Also

Other factors: adult_demo, adult_enroll_dur, adult_group, adult_hcc, adult_rxc_hcc_inter, adult_rxc, child_demo, child_group, child_hcc, infant_demo, infant_mat_sev

Other HCC tables: adult_group, adult_hcc, adult_rxc_hcc_inter, cc_hier, child_group, child_hcc, cpt_hcpcs, icd_cc

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# adult_rxc *Adult Rx Condition Factors - Table 9*

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## Description

A dataset containing the adult model prescription drug category (RXC) factors for the risk adjustment model. Rx condition categories are triggered by NDC codes (See ndc_rxc) or HCPCS codes (See hcpcs_rxc), and a hierarchy is then applied (See rxc_hier).

## Usage

```
adult_rxc
```

## Format

An object of class tbl_df (inherits from tbl, data.frame) with 10 rows and 7 columns

**used** Whether or not the category is used in the RA model

**plat, gold, silver, bronze, cat** HCC grouping risk score for each metal level

**rxc** RXC label for risk scores (Includes leading zeroes)

## Source

Data import and cleaning at: https://github.com/EeethB/edgedata/tree/main/data-raw

## See Also

Other factors: adult_demo, adult_enroll_dur, adult_group, adult_hcc, adult_interaction, adult_rxc_hcc_inter, child_demo, child_group, child_hcc, infant_demo, infant_mat_sev

Other RXC tables: adult_rxc_hcc_inter, hcpcs_rxc, ndc_rxc, rxc_hier

`adult_rxc_hcc_inter` *Adult RXC/HCC Interaction Factors - Table 9*

## Description

A dataset containing the adult model RXC/HCC interaction factors for the risk adjustment model. Some HCCs have built-in risk for the associated drugs, so if a member has both the diagnosis and the drug, their risk is overstated. Other drugs combined with conditions indicate a greater severity than either the drug or the condition alone, so risk is understated. The RXC/HCC interaction factors make these adjustments.

## Usage

```
adult_rxc_hcc_inter
```

## Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 32 rows and 8 columns

**used** Whether or not the category is used in the RA model

**plat, gold, silver, bronze, cat** HCC grouping risk score for each metal level

**rxc** RXC label for risk scores (Includes leading zeroes)

**hcc** HCC label for risk scores (Includes leading zeroes)

## Source

Data import and cleaning at: https://github.com/EeethB/edgedata/tree/main/data-raw

## See Also

Other factors: `adult_demo`, `adult_enroll_dur`, `adult_group`, `adult_hcc`, `adult_interaction`, `adult_rxc`, `child_demo`, `child_group`, `child_hcc`, `infant_demo`, `infant_mat_sev`

Other HCC tables: `adult_group`, `adult_hcc`, `adult_interaction`, `cc_hier`, `child_group`, `child_hcc`, `cpt_hcpcs`, `icd_cc`

Other RXC tables: `adult_rxc`, `hcpcs_rxc`, `ndc_rxc`, `rxc_hier`

## cc_hier *Condition Category Hierarchies - Table 4*

### Description

A dataset used to apply the risk adjustment condition category hierarchies. The HHS-Hcc risk model uses *hierarchical* condition categories. This means that when an individual has e.g. HCC 8 (Metastatic Cancer), they do not also get the risk score for less serious cancer categories.

### Usage

```
cc_hier
```

### Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 149 rows and 3 columns

**cc** Condition category code without leading zeroes

**desc** Condition category description

**set_0** Condition category that falls below `cc` on the hierarchy. No leading zeroes

### Source

Data import and cleaning at: https://github.com/EeethB/edgedata/tree/main/data-raw

### See Also

Other HCC tables: `adult_group`, `adult_hcc`, `adult_interaction`, `adult_rxc_hcc_inter`, `child_group`, `child_hcc`, `cpt_hcpcs`, `icd_cc`

## cc_int_h *HCC to interaction group "H" mapping - Table 6*

### Description

A dataset containing the mapping from HCC to interaction group "H".

### Usage

```
cc_int_h
```

### Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 9 rows and 3 columns

**cc** Hierarchical condition category (Currently includes some G*)

**var** Variable mapped to (int_group_h)

**desc** Short description of the variable

## Details

Interaction group H (high?) takes priority over interaction group M (moderate?). If a member qualifies for group H, they should not get credit for group M.

## Source

Data import and cleaning at: https://github.com/EeethB/edgedata/tree/main/data-raw

## See Also

Other Severe interaction tables: cc_int_m, cc_severe

---

# cc_int_m *HCC to interaction group "M" mapping - Table 6*

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## Description

A dataset containing the mapping from HCC to interaction group "M".

## Usage

```
cc_int_m
```

## Format

An object of class tbl_df (inherits from tbl, data.frame) with 7 rows and 3 columns

**cc** Hierarchical condition category (Currently includes some G*)

**var** Variable mapped to (int_group_m)

**desc** Short description of the variable

## Details

Interaction group H (high?) takes priority over interaction group M (moderate?). If a member qualifies for group H, they should not get credit for group M.

## Source

Data import and cleaning at: https://github.com/EeethB/edgedata/tree/main/data-raw

## See Also

Other Severe interaction tables: cc_int_h, cc_severe

## cc_severe *HCC to severity group mapping - Table 6*

### Description

A dataset containing the mapping from HCC to severe status.

### Usage

```
cc_severe
```

### Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 8 rows and 3 columns

**cc** Hierarchical condition category (Currently includes some G*)

**var** Variable mapped to (severe_v3)

**desc** Short description of the variable

### Source

Data import and cleaning at: https://github.com/EeethB/edgedata/tree/main/data-raw

### See Also

Other Severe interaction tables: `cc_int_h`, `cc_int_m`

## child_demo *Child Demographic Factors - Table 9*

### Description

A dataset containing the child model demographic factors for the risk adjustment model. Demographics vary by age (groupings) and sex.

### Usage

```
child_demo
```

### Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 8 rows and 9 columns

**used** Whether or not the category is used in the RA model

**plat, gold, silver, bronze, cat** Demographic risk score for each metal level

**sex** Male/Female demographic category

**age_min, age_max** Maximum and minimum age for each risk score

### Source

Data import and cleaning at: https://github.com/EeethB/edgedata/tree/main/data-raw

### See Also

Other factors: adult_demo, adult_enroll_dur, adult_group, adult_hcc, adult_interaction, adult_rxc_hcc_inter, adult_rxc, child_group, child_hcc, infant_demo, infant_mat_sev

---

## child_group *Child HCC Grouping Factors - Table 9*

---

### Description

A dataset containing the child model HCC grouping factors for the risk adjustment model. Some condition categories have been grouped together, so that any number of HCCs within that group are zeroed out and replaced by the group.

### Usage

```
child_group
```

### Format

An object of class tbl_df (inherits from tbl, data.frame) with 17 rows and 7 columns

**group** Group label for risk scores

**used** Whether or not the category is used in the RA model

**plat, gold, silver, bronze, cat** HCC grouping risk score for each metal level

### Source

Data import and cleaning at: https://github.com/EeethB/edgedata/tree/main/data-raw

### See Also

Other factors: adult_demo, adult_enroll_dur, adult_group, adult_hcc, adult_interaction, adult_rxc_hcc_inter, adult_rxc, child_demo, child_hcc, infant_demo, infant_mat_sev

Other HCC tables: adult_group, adult_hcc, adult_interaction, adult_rxc_hcc_inter, cc_hier, child_hcc, cpt_hcpcs, icd_cc

## child_hcc *Child HCC Factors - Table 9*

### Description

A dataset containing the child model HCC factors for the risk adjustment model. Condition categories (CCs) are triggered by ICD-10 codes (See icd_cc), and a hierarchy is then applied (See cc_hier), creating hierarchical condition categories (HCCs).

### Usage

```
child_hcc
```

### Format

An object of class tbl_df (inherits from tbl, data.frame) with 128 rows and 7 columns

**used** Whether or not the category is used in the RA model

**plat, gold, silver, bronze, cat** HCC grouping risk score for each metal level

**hcc** HCC label for risk scores (Includes leading zeroes)

### Source

Data import and cleaning at: https://github.com/EeethB/edgedata/tree/main/data-raw

### See Also

Other factors: adult_demo, adult_enroll_dur, adult_group, adult_hcc, adult_interaction, adult_rxc_hcc_inter, adult_rxc, child_demo, child_group, infant_demo, infant_mat_sev

Other HCC tables: adult_group, adult_hcc, adult_interaction, adult_rxc_hcc_inter, cc_hier, child_group, cpt_hcpcs, icd_cc

## cpt_hcpcs *RA-eligible CPT and HCPCS - Table 2*

### Description

A dataset containing the Current Procedural Terminology (CPT) and Health Care Procedure Coding System (HCPCS) codes that determine if a claim is eligible for risk adjustment.

### Usage

```
cpt_hcpcs
```

## Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 6557 rows and 8 columns

**code** CPT/HCPCS code

**desc** Short description of the code

**prior** Whether or not the code was valid in the prior benefit year

**curr** Whether or not the code is valid in the current benefit year

**footnote** Any footnotes included in the CMS DIY file

## Details

Risk adjustment requires that claims be face-to-face to count in the HHS-HCC model. The codes in this dataset denote a face-to-face procedure, so if one of these codes is found anywhere on a claim, it counts for risk adjustment.

## Source

Data import and cleaning at: https://github.com/EeethB/edgedata/tree/main/data-raw

## See Also

Other HCC tables: `adult_group`, `adult_hcc`, `adult_interaction`, `adult_rxc_hcc_inter`, `cc_hier`, `child_group`, `child_hcc`, `icd_cc`

---

# hcpcs_rxc *HCPCS to Rx Condition Crosswalk - Table 10b*

---

## Description

A dataset containing the HCPCS to Rx condition mappings.

## Usage

```
hcpcs_rxc
```

## Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 43 rows and 3 columns

**rxc** Rx condition number without leading zeroes

**desc** Rx condition description

**ndc** HCPCS code that maps to `rxc`

## Details

HCPCS codes create a system for identifying drugs given in a medical setting. But since there are so many drugs, and they very specific, the HHS-HCC model groups similar drugs into broader Rx condition categories.

## Source

Data import and cleaning at: https://github.com/EeethB/edgedata/tree/main/data-raw

## See Also

Other crosswalks: icd_cc, ndc_rxc

Other RXC tables: adult_rxc_hcc_inter, adult_rxc, ndc_rxc, rxc_hier

---

# icd_cc *ICD to Condition Category Crosswalk - Table 3*

---

## Description

A dataset containing the ICD-10 to condition category mappings.

## Usage

```
icd_cc
```

## Format

An object of class tbl_df (inherits from tbl, data.frame) with 8528 rows and 11 columns

**icd** ICD-10 code

**cc** Risk adjustment condition category

**class** It's not yet clear how this is used

**eff_date** Effective date of ICD code

**term_date** Term date of ICD code

**sex** Male/Female specification for ICD code (Risk adjustment currently only supports male and female)

**sex_num** Numeric sex encoding (1/M and 2/F)

**model_num** Number corresponding to model: 0 = newborn, 1 = pediatric 2 = maternity, 3 = adult

**model** Which regression model the age/sex filters apply to - Includes maternity, which is not used in actual score calculations

**age_min** Minimum age for a given diagnosis code

**age_max** Maximum age for a given diagnosis code

## Details

The ICD-10 system is a vast diagnosis coding system in healthcare. But since there are so many diagnoses, and they very specific, the HHS-HCC model groups similar codes into broader condition categories. Additionally, some diagnoses can only apply to one sex or the other, or to a particular age range.

### Source

Data import and cleaning at: https://github.com/EeethB/edgedata/tree/main/data-raw

### See Also

Other crosswalks: hcpcs_rxc, ndc_rxc

Other HCC tables: adult_group, adult_hcc, adult_interaction, adult_rxc_hcc_inter, cc_hier, child_group, child_hcc, cpt_hcpcs

---

## infant_demo *Infant Demographic Factors - Table 9*

---

### Description

A dataset containing the infant model demographic factors for the risk adjustment model. Demographics vary by age and sex.

### Usage

```
infant_demo
```

### Format

An object of class tbl_df (inherits from tbl, data.frame) with 2 rows and 8 columns

**used** Whether or not the category is used in the RA model

**plat, gold, silver, bronze, cat** Demographic risk score for each metal level

**age** Age for each risk score

**sex** Male/Female demographic category

### Source

Data import and cleaning at: https://github.com/EeethB/edgedata/tree/main/data-raw

### See Also

Other factors: adult_demo, adult_enroll_dur, adult_group, adult_hcc, adult_interaction, adult_rxc_hcc_inter, adult_rxc, child_demo, child_group, child_hcc, infant_mat_sev

## infant_mat_sev *Infant Maturity/Severity Factors - Table 9*

### Description

A dataset containing the infant model maturity/severity factors for the risk adjustment model. Risk scores are done a little differently in the infant model. Instead of grouping/applying a hierarchy to condition categories, infants have all conditions grouped into 5 severity levels (1-5). They also get a maturity level which corresponds to weeks of gestation at which they were born. There is also a maturity category for age 1.

### Usage

```
infant_mat_sev
```

### Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 25 rows and 8 columns

**mat** Infant maturity level. Can be extremely immature, immature, premature multiples, term, or age 1

**sev** Infant severity level. 1-5

**used** Whether or not the category is used in the RA model

**plat, gold, silver, bronze, cat** Maturity/severity risk score for each metal level

### Source

Data import and cleaning at: https://github.com/EeethB/edgedata/tree/main/data-raw

### See Also

Other factors: adult_demo, adult_enroll_dur, adult_group, adult_hcc, adult_interaction, adult_rxc_hcc_inter, adult_rxc, child_demo, child_group, child_hcc, infant_demo

## ndc_rxc *NDC to Rx Condition Crosswalk - Table 10a*

### Description

A dataset containing the NDC to Rx condition mappings.

### Usage

```
ndc_rxc
```

### Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 12323 rows and 3 columns

**rxc** Rx condition number without leading zeroes

**desc** Rx condition description

**ndc** NDC that maps to `rxc`

### Details

The NDC system is a unique drug identifier system. But since there are so many drugs, and they very specific, the HHS-HCC model groups similar drugs into broader Rx condition categories.

### Source

Data import and cleaning at: https://github.com/EeethB/edgedata/tree/main/data-raw

### See Also

Other crosswalks: `hcpcs_rxc`, `icd_cc`

Other RXC tables: `adult_rxc_hcc_inter`, `adult_rxc`, `hcpcs_rxc`, `rxc_hier`

---

## `rxc_hier` *Rx Condition Hierarchies - Table 11*

---

### Description

A dataset used to apply the risk adjustment Rx condition category hierarchies. The HHS risk model uses *hierarchical* condition categories. This means that when an individual has e.g. RXC 6 (Insulin), they do not also get the risk score for RXC 7 (Anti-Diabetic Agents, Except Insulin...).

### Usage

```
rxc_hier
```

### Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 1 rows and 3 columns

**rxc** Rx condition code without leading zeroes

**desc** Rx condition code description

**set_0** Rx condition code that falls below `rxc` on the hierarchy No leading zeroes

### Source

Data import and cleaning at: https://github.com/EeethB/edgedata/tree/main/data-raw

### See Also

Other RXC tables: `adult_rxc_hcc_inter`, `adult_rxc`, `hcpcs_rxc`, `ndc_rxc`

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