Package 'cancerprof'

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Title API Client for State Cancer Profiles

Version 0.0.0.9000

Description An API Client for accessing data from State Cancer Profiles for programmable analysis.

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URL https://github.com/getwilds/cancerprof

BugReports https://github.com/getwilds/cancerprof/issues

Encoding UTF-8

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.0

Imports cdlTools,
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Suggests knitr,
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Config/testthat/edition 3

VignetteBuilder knitr

Depends R (>= 2.10)

R topics documented:

`demo_crowding` *Access to Crowding Data*

Description

This function returns a data frame about crowding demographics from State Cancer Profiles.

Usage

```
demo_crowding(area, areatype, crowding, race)
```

Arguments

`area`	A state/territory abbreviation or USA.
`areatype`	One of the following values: • `"county"` • `"hsa"` (Health Service Area) • `"state"`.
`crowding`	The only permissible value is `"household with >1 person per room"`.
`race`	One of the following values: • `"All Races (includes Hispanic)"` • `"White (includes Hispanic)"` • `"White Non-Hispanic"` • `"Black"` • `"Amer. Indian/Alaskan Native (includes Hispanic)"` • `"Asian or Pacific Islander (includes Hispanic)"` • `"Hispanic (Any Race)"`.

Value

A data frame with the following columns: Area, Area Code, Percent, Households, Rank.

See Also

Other demographics: `demo_education()`, `demo_food()`, `demo_income()`, `demo_insurance()`, `demo_language()`, `demo_mobility()`, `demo_population()`, `demo_poverty()`, `demo_svi()`, `demo_workforce()`

Examples

```
## Not run:
demo_crowding(
  area = "WA",
  areatype = "county",
  crowding = "household with >1 person per room",
  race = "All Races (includes Hispanic)"
)

demo_crowding(
  area = "usa",
  areatype = "state",
  crowding = "household with >1 person per room",
  race = "All Races (includes Hispanic)"
)

demo_crowding(
  area = "pr",
  areatype = "hsa",
  crowding = "household with >1 person per room",
  race = "black"
)

## End(Not run)
```

---

demo_education *Access to Education Data*

Description

This function returns a data frame about education demographics from State Cancer Profiles.

Usage

```
demo_education(area, areatype, education, sex = NULL, race = NULL)
```

Arguments

area	A state/territory abbreviation or USA.
areatype	One of the following values: • "county" • "hsa" (Health Service Area) • "state".
education	One of the following values: • "less than 9th grade" • "at least high school" • "at least bachelors degree".
sex	One of the following values: • "both sexes" • "male"

- "female".

race One of the following values:

- "All Races (includes Hispanic)"
- "White (includes Hispanic)"
- "White non-Hispanic"
- "Black"
- "Amer. Indian/Alaskan Native (includes Hispanic)"
- "Asian or Pacific Islander (includes Hispanic)"
- "Hispanic (Any Race).

Value

A data frame with the following columns: Area Type, Area Code, Percent, Households, Rank.

See Also

Other demographics: demo_crowding(), demo_food(), demo_income(), demo_insurance(), demo_language(), demo_mobility(), demo_population(), demo_poverty(), demo_svi(), demo_workforce()

Examples

```
## Not run:
demo_education(
  area = "wa",
  areatype = "county",
  education = "at least high school",
  sex = "males"
)

demo_education(
  area = "usa",
  areatype = "state",
  education = "at least bachelors degree",
  sex = "both sexes",
  race = "all races (includes hispanic)"
)

demo_education(
  area = "pr",
  areatype = "hsa",
  education = "less than 9th grade"
)

## End(Not run)
```

---

demo_food *Access to Food Insecurity Data*

Description

This function returns a data frame about food demographics from State Cancer Profiles.

Usage

```
demo_food(area, areatype, food, race = NULL)
```

Arguments

area	A state/territory abbreviation or USA.
areatype	Either "county" or "state".
food	One of the following values: • "food insecurity" • "limited access to healthy food".
race	One of the following values: • "All Races (includes Hispanic)" • "White non-Hispanic" • "Black (includes Hispanic)" • "Hispanic (Any Race).

Value

A data frame with the following columns: Area Type, Area Code, Value, People.

See Also

Other demographics: demo_crowding(), demo_education(), demo_income(), demo_insurance(), demo_language(), demo_mobility(), demo_population(), demo_poverty(), demo_svi(), demo_workforce()

Examples

```
## Not run:
demo_food(
  area = "wa",
  areatype = "county",
  food = "food insecurity",
  race = "black"
)

demo_food(
  area = "usa",
  areatype = "state",
  food = "limited access to healthy food"
)

demo_food(
  area = "pr",
  areatype = "county",
  food = "food insecurity",
  race = "all races (includes hispanic)"
)

## End(Not run)
```

demo_income *Access to Income Data*

Description

This function returns a data frame about income demographics from State Cancer Profiles.

Usage

```
demo_income(area, areatype, income, race)
```

Arguments

area	A state/territory abbreviation or USA.
areatype	Either "county" or "state".
income	Either "median family income" or "median household income".
race	One of the following values: • "All Races (includes Hispanic)" • "White (includes Hispanic)" • "White non-Hispanic" • "Black" • "Amer. Indian/Alaskan Native (includes Hispanic)" • "Asian or Pacific Islander (includes Hispanic)" • "Hispanic (Any Race).

Value

A data frame with the following columns: Area Type, Area Code, Dollars, Rank.

See Also

Other demographics: demo_crowding(), demo_education(), demo_food(), demo_insurance(), demo_language(), demo_mobility(), demo_population(), demo_poverty(), demo_svi(), demo_workforce()

Examples

```
## Not run:
demo_income(
  area = "wa",
  areatype = "county",
  income = "median household income",
  race = "all races (includes hispanic)"
)

demo_income(
  area = "usa",
  areatype = "state",
  income = "median family income",
  race = "all races (includes hispanic)"
)
```

```
demo_income(
  area = "pr",
  areatype = "county",
  income = "median family income",
  race = "all races (includes hispanic)"
)

## End(Not run)
```

---

demo_insurance *Access to Insurance Data*

Description

This function returns a data frame about insurance demographics from State Cancer Profiles.

Usage

```
demo_insurance(area, areatype, insurance, sex, age, race = NULL)
```

Arguments

area	A state/territory abbreviation or USA.
areatype	One of the following values: • "county" • "hsa" (Health Service Area) • "state".
insurance	One of the following values: • "% Insured in demographic group, all income levels" • "% Insured in demographic group, people at or below 138% of Poverty" • "% Insured in demographic group, people at or below 200% of Poverty" • "% Insured in demographic group, people at or below 250% of Poverty" • "% Insured in demographic group, people at or below 400% of Poverty" • "% Insured in demographic group, people between 138% - 400% of poverty" • "% uninsured in demographic group, all income levels" • "% uninsured in demographic group, people at or below 138% of Poverty" • "% uninsured in demographic group, people at or below 200% of Poverty" • "% uninsured in demographic group, people at or below 250% of Poverty" • "% uninsured in demographic group, people at or below 400% of Poverty" • "% uninsured in demographic group, people between 138% - 400% of poverty".
sex	One of the following values: • "both sexes" • "male" • "female".
age	If you specified "both sexes" for sex choose one of the following values: • "under 19 years" • "18 to 64 years"

- "21 to 64 years"
- "40 to 64 years"
- "50 to 64 years"
- "under 65 years".

Otherwise if you specified "male" or "female" for sex, choose one of the following values:

- "18 to 64 years"
- "40 to 64 years"
- "50 to 64 years"
- "Under 65 years".

race — Only specify race if you specified "state" for areatype

- "All Races (includes Hispanic)"
- "White (non-Hispanic)"
- "black (non-Hispanic)"
- "American Indian / Alaska Native (non-Hispanic)"
- "Asian (non-Hispanic)"
- "Hispanic (Any Race)".

Value

A data frame with the following columns: Area Type, Area Code, Percent, People, Rank.

See Also

Other demographics: demo_crowding(), demo_education(), demo_food(), demo_income(), demo_language(), demo_mobility(), demo_population(), demo_poverty(), demo_svi(), demo_workforce()

Examples

```
## Not run:
demo_insurance(
  area = "usa",
  areatype = "state",
  insurance = "% Insured in demographic group, all income levels",
  sex = "both sexes",
  age = "18 to 64 years",
  race = "white (non-hispanic)"
)

demo_insurance(
  area = "wa",
  areatype = "hsa",
  insurance = "% Insured in demographic group, all income levels",
  sex = "males",
  age = "18 to 64 years"
)

demo_insurance(
  area = "dc",
  areatype = "county",
  insurance = "% Insured in demographic group, all income levels",
  sex = "males",
```

```
  age = "18 to 64 years"
)

## End(Not run)
```

---

demo_language *Access to Non-English Language*

Description

This function returns a data frame about language demographics from State Cancer Profiles.

Usage

```
demo_language(area, areatype, language)
```

Arguments

area	A state/territory abbreviation or USA.
areatype	One of the following values: • "county" • "hsa" (Health Service Area) • "state".
language	The only permissible value is "language isolation".

Value

A data frame with the following columns: Area Type, Area Code, Percent, Households, Rank.

See Also

Other demographics: demo_crowding(), demo_education(), demo_food(), demo_income(), demo_insurance(), demo_mobility(), demo_population(), demo_poverty(), demo_svi(), demo_workforce()

Examples

```
demo_language(
  area = "WA",
  areatype = "county",
  language = "language isolation"
)

demo_language(
  area = "dc",
  areatype = "hsa",
  language = "language isolation"
)

demo_language(
  area = "usa",
  areatype = "state",
  language = "language isolation"
)
```

demo_mobility *Access to Mobility Data*

Description

This function returns a data frame about mobility demographics from State Cancer Profiles.

Usage

```
demo_mobility(area, areatype, mobility)
```

Arguments

area	A state/territory abbreviation or USA.
areatype	One of the following values: • "county" • "hsa" (Health Service Area) • "state".
mobility	The only permissible values are • "i haven't moved (in past year)" • "moved from outside us (in past year)" • "moved, different state (in past year)" • "moved, different county, same state (in past year)" • "moved, same county (in past year)".

Value

A data frame with the following columns: Area Type, Area Code, Percent, People, Rank.

See Also

Other demographics: demo_crowding(), demo_education(), demo_food(), demo_income(), demo_insurance(), demo_language(), demo_population(), demo_poverty(), demo_svi(), demo_workforce()

Examples

```
## Not run:
demo_mobility(
  area = "WA",
  areatype = "county",
  mobility = "moved, different county, same state (in past year)"
)

demo_mobility(
  area = "usa",
  areatype = "state",
  mobility = "moved, same county (in past year)"
)

demo_mobility(
  area = "dc",
```

```
  areatype = "hsa",
  mobility = "moved, same county (in past year)"
)

## End(Not run)
```

---

demo_population *Access to Population Data*

Description

This function returns a data frame about population from State Cancer Profiles.

Usage

```
demo_population(area, areatype, population, race = NULL, sex = NULL)
```

Arguments

area	A state/territory abbreviation or USA.
areatype	One of the following values: • "county" • "hsa" (Health Service Area) • "state".
population	One of the following values: • "age under 18" • "age 18-39" • "age 40-64" • "ages 40 and over" • "ages 50 and over" • "ages 60 and over" • "american indian/alaska native" • "asian/pacific islander" • "black" • "foreign born" • "hispanic" • "non-hispanic (origin recode)" • "white" • "males" • "females".
race	One of the following values: • "American Indian/Alaska Native" • "Asian/Pacific Islander" • "Black" • "Hispanic" • "White (includes Hispanic)"

- "White non-Hispanic"
- "Hispanic (Any Race)".

sex One of the following values:

- "both sexes"
- "male"
- "female".

Value

A data frame with the following columns: Area Type, Area Code, Percent, Households, Rank.

See Also

Other demographics: demo_crowding(), demo_education(), demo_food(), demo_income(), demo_insurance(), demo_language(), demo_mobility(), demo_poverty(), demo_svi(), demo_workforce()

Examples

```
## Not run:
demo_population(
  area = "WA",
  areatype = "county",
  population = "males",
  race = "all races (includes hispanic)"
)

demo_population(
  area = "dc",
  areatype = "hsa",
  population = "foreign born",
  race = "black",
  sex = "females"
)

demo_population(
  area = "usa",
  areatype = "state",
  population = "foreign born",
  race = "hispanic (any race)",
  sex = "females"
)

## End(Not run)
```

---

demo_poverty *Access to Poverty Data*

Description

This function returns a data frame about poverty demographics from State Cancer Profiles.

Usage

```
demo_poverty(area, areatype, poverty, race = NULL, sex = NULL)
```

Arguments

area	A state/territory abbreviation or USA.
areatype	One of the following values: • "county" • "hsa" (Health Service Area) • "state".
poverty	One of the following values: • "families below poverty" • "persistent poverty" • "persons below poverty" • "persons < 150% of poverty".
race	One of the following values: • "All Races (includes Hispanic)" • "White (includes Hispanic)" • "White non-Hispanic" • "Black" • "Amer. Indian/Alaskan Native (includes Hispanic)" • "Asian or Pacific Islander (includes Hispanic)" • "Hispanic (Any Race).
sex	One of the following values: • "both sexes" • "male" • "female".

Value

A data frame with the following columns: Area Type, Area Code, Percent, Households, Rank.

See Also

Other demographics: demo_crowding(), demo_education(), demo_food(), demo_income(), demo_insurance(), demo_language(), demo_mobility(), demo_population(), demo_svi(), demo_workforce()

Examples

```
## Not run:
demo_poverty(
  area = "WA",
  areatype = "county",
  poverty = "persistent poverty"
)

demo_poverty(
  area = "usa",
  areatype = "state",
```

```
  poverty = "families below poverty",
  race = "black"
)

demo_poverty(
  area = "dc",
  areatype = "hsa",
  poverty = "families below poverty",
  race = "All Races (includes Hispanic)"
)

## End(Not run)
```

---

demo_svi *Access to Social Vulnerability Index (SVI) Data*

Description

This function returns a data frame about social vulnerability index (SVI) from State Cancer Profiles.

Usage

```
demo_svi(area, svi)
```

Arguments

area	A state/territory abbreviation or USA.
svi	One of the following values: • "Overall" • "socioeconomic status" • "household characteristics" • "racial & ethinic minority status" • "housing type & transportation".

Value

A data frame with the following columns: County, FIPS, Score.

See Also

Other demographics: demo_crowding(), demo_education(), demo_food(), demo_income(), demo_insurance(), demo_language(), demo_mobility(), demo_population(), demo_poverty(), demo_workforce()

Examples

```
## Not run:
demo_svi(
  area = "WA",
  svi = "overall"
)

demo_svi(
```

```
  area = "usa",
  svi = "overall"
)

demo_svi(
  area = "dc",
  svi = "socioeconomic status"
)

## End(Not run)
```

---

demo_workforce *Access to Workforce Data*

Description

This function returns a data frame from Workforce in State Cancer Profiles.

Usage

```
demo_workforce(area, areatype, workforce, race, sex)
```

Arguments

area	A state/territory abbreviation or USA.
areatype	One of the following values: • "county" • "hsa" (Health Service Area) • "state".
workforce	The only permissible value is "unemployed"
race	One of the following values: • "All Races (includes Hispanic)" • "White (includes Hispanic)" • "White non-Hispanic" • "Black" • "Amer. Indian/Alaskan Native (includes Hispanic)" • "Asian or Pacific Islander (includes Hispanic)" • "Hispanic (Any Race).
sex	One of the following values: • "both sexes" • "male" • "female".

Value

A data frame with the following columns: Area Type, Area Code, Percent, People Unemployed, Rank.

See Also

Other demographics: demo_crowding(), demo_education(), demo_food(), demo_income(), demo_insurance(), demo_language(), demo_mobility(), demo_population(), demo_poverty(), demo_svi()

Examples

```
## Not run:
demo_workforce(
  area = "WA",
  areatype = "county",
  workforce = "unemployed",
  race = "all races (includes hispanic)",
  sex = "both sexes"
)

demo_workforce(
  area = "usa",
  areatype = "state",
  workforce = "unemployed",
  race = "all races (includes hispanic)",
  sex = "females"
)

demo_workforce(
  area = "pr",
  areatype = "hsa",
  workforce = "unemployed",
  race = "all races (includes hispanic)",
  sex = "both sexes"
)

## End(Not run)
```

---

incidence_cancer *Access to Cancer Incident Data*

Description

This function returns a data frame about cancer incidence from State Cancer Profiles.

Usage

```
incidence_cancer(area, areatype, cancer, race, sex, age, stage, year)
```

Arguments

area	A state/territory abbreviation or USA.
areatype	One of the following values: • "county" • "hsa" (Health Service Area) • "state".
cancer	One of the following values:

- "all cancer sites"
- "bladder"
- "brain & ons"
- "breast (female)"
- "breast (female in situ)"
- "cervix"
- "childhood (ages <15, all sites)"
- "childhood (ages <20, all sites)"
- "colon & rectum"
- "esophagus"
- "kidney & renal pelvis"
- "leukemia"
- "liver & bile duct"
- "lung & bronchus"
- "melanoma of the skin"
- "non-hodgkin lymphoma"
- "oral cavity & pharynx"
- "ovary"
- "pancreas"
- "prostate"
- "stomach"
- "thyroid"
- "uterus (corpus & uterus, nos)".

race One of the following values:

- "All Races (includes Hispanic)"
- "White (non-Hispanic)"
- "Black (non-Hispanic)"
- "American Indian / Alaska Native (non-Hispanic)"
- "Asian / Pacific Islander (non-Hispanic)"
- "Hispanic (Any Race)".

sex One of the following values:

- "both sexes"
- "male"
- "female".

age One of the following values:

- "all ages"
- "ages <50"
- "ages 50+"
- "ages <65"
- "ages 65+"
- "ages <15"
- "ages <20".

stage One of the following values:

- "all stages"
- "late stage (regional & distant)".

year One of the following values:

- "latest 5 year average"
- "latest single year (us by state)".

Value

A data frame with the following columns: Area Type, Area Code, Age Adjusted Incidence Rate, Lower 95% CI, Upper 95% CI, CI Rank, Lower CI Rank, Upper CI Rank, Annual Average Count, Recent Trend, Recent 5 Year Trend, Trend Lower 95% CI, Trend Upper 95% CI.

Examples

```
## Not run:
incidence_cancer(
  area = "wa",
  areatype = "county",
  cancer = "all cancer sites",
  race = "black (non-hispanic)",
  sex = "both sexes",
  age = "ages 65+",
  stage = "all stages",
  year = "latest 5 year average"
)

incidence_cancer(
  area = "usa",
  areatype = "state",
  cancer = "lung & bronchus",
  race = "all races (includes hispanic)",
  sex = "males",
  age = "ages 50+",
  stage = "late stage (regional & distant)",
  year = "latest single year (us by state)"
)

incidence_cancer(
  area = "wa",
  areatype = "hsa",
  cancer = "ovary",
  race = "all races (includes hispanic)",
  sex = "females",
  age = "ages 50+",
  stage = "late stage (regional & distant)",
  year = "latest 5 year average"
)

## End(Not run)
```

---

mortality_cancer *Access to Cancer Mortality Data*

Description

This function returns a data frame about cancer mortality from State Cancer Profiles.

Usage

```
mortality_cancer(area, areatype, cancer, race, sex, age, year)
```

Arguments

area	A state/territory abbreviation or USA.
areatype	One of the following values: • "county" • "hsa" (Health Service Area) • "state".
cancer	One of the following values: • "all cancer sites" • "bladder" • "brain & ons" • "breast (female)" • "cervix" • "childhood (ages <15, all sites)" • "childhood (ages <20, all sites)" • "colon & rectum" • "esophagus" • "kidney & renal pelvis" • "leukemia" • "liver & bile duct" • "lung & bronchus" • "melanoma of the skin" • "non-hodgkin lymphoma" • "oral cavity & pharynx" • "ovary" • "pancreas" • "prostate" • "stomach" • "thyroid" • "uterus (corpus & uterus, nos)"
race	One of the following values: • "All Races (includes Hispanic)" • "White (non-Hispanic)" • "Black (non-Hispanic)" • "American Indian / Alaska Native (non-Hispanic)" • "Asian / Pacific Islander (non-Hispanic)" • "Hispanic (Any Race)".
sex	One of the following values: • "both sexes" • "male" • "female".
age	One of the following values: • "all ages" • "ages <50" • "ages 50+"

- "ages <65"
- "ages 65+"
- "ages <15"
- "ages <20".

year One of the following values:

- "latest 5 year average"
- "latest single year (us by state)".

Value

A data frame with the following columns: Area Type, Area Code, Met Healthy People Objective of ***?, Age Adjusted Death Rate, Lower 95% CI Rate, Upper 95% CI Rate, CI Rank, Lower CI Rank, Upper CI Rank, Annual Average Count, Recent Trend, Recent 5 Year Trend, Lower 95% CI Trend, Upper 95% CI Trend.

Examples

```
## Not run:
mortality_cancer(
  area = "wa",
  areatype = "county",
  cancer = "all cancer sites",
  race = "black (non-hispanic)",
  sex = "both sexes",
  age = "ages 65+",
  year = "latest 5 year average"
)

mortality_cancer(
  area = "usa",
  areatype = "state",
  cancer = "prostate",
  race = "all races (includes hispanic)",
  sex = "males",
  age = "ages 50+",
  year = "latest single year (us by state)"
)

mortality_cancer(
  area = "wa",
  areatype = "hsa",
  cancer = "ovary",
  race = "all races (includes hispanic)",
  sex = "females",
  age = "ages 50+",
  year = "latest 5 year average"
)

## End(Not run)
```

risk_alcohol *Access to Alcohol Screening and Risk Data*

Description

This function returns a data frame about alcohol risks from State Cancer Profiles.

Usage

```
risk_alcohol(alcohol, race, sex)
```

Arguments

alcohol	The only permissible value is 'paste("binge drinking (4+ drinks on one occasion for women,", "5+ drinks for one occasion for men), ages 21+")
race	One of the following values: • "All Races (includes Hispanic)" • "White (non-Hispanic)" • "Black (non-Hispanic)" • "American Indian / Alaska Native (non-Hispanic)" • "Asian / Pacific Islander (non-Hispanic)" • "Hispanic (Any Race)".
sex	One of the following values: • "both sexes" • "male" • "female".

Value

A data frame with the following columns: Area Type, Area Code, Percent, Lower 95% CI, Upper 95% CI, Number of Respondents.

See Also

Other risks: risk_colorectal_screening(), risk_diet_exercise(), risk_smoking(), risk_vaccines(), risk_women_health()

Examples

```
## Not run:
risk_alcohol(
  alcohol = paste(
    "binge drinking (4+ drinks on one occasion for women,",
    "5+ drinks for one occasion for men), ages 21+"
  ),
  race = "all races (includes hispanic)",
  sex = "both sexes"
)

## End(Not run)
```

`risk_colorectal_screening` *Access to Colorectal Screening Data*

Description

This function returns a data frame about colorectal screening from State Cancer Profiles.

Usage

```
risk_colorectal_screening(screening, race = NULL, sex = NULL, area = NULL)
```

Arguments

`screening`	One of the following values: • `"ever had fobt, ages 50-75"` • `"guidance sufficient crc, ages 50-75"` • `"had colonoscopy in past 10 years, ages 50-75"` • `"home blood stool test in the past year, ages 45-75"` • `"received at least one recommended crc test, ages 45-75"`.
`race`	One of the following values: • `"All Races (includes Hispanic)"` • `"White (non-Hispanic)"` • `"Black (non-Hispanic)"` • `"American Indian / Alaska Native (non-Hispanic)"` • `"Asian / Pacific Islander (non-Hispanic)"` • `"Hispanic (Any Race)"`.
`sex`	One of the following values: • `"both sexes"` • `"male"` • `"female"`.
`area`	A state/territory abbreviation or USA.

Value

A data frame with the following columns: Area Type, Area Code, Percent, People Unemployed, Rank.

See Also

Other risks: `risk_alcohol()`, `risk_diet_exercise()`, `risk_smoking()`, `risk_vaccines()`, `risk_women_health()`

Examples

```
## Not run:
risk_colorectal_screening(
  screening = "home blood stool test in the past year, ages 45-75",
  race = "all races (includes hispanic)",
  sex = "both sexes"
)

risk_colorectal_screening(
  screening = "ever had fobt, ages 50-75",
  area = "usa"
)
risk_colorectal_screening(
  screening = "received at least one recommended crc test, ages 45-75",
  race = "all races (includes hispanic)",
  sex = "both sexes"
)

## End(Not run)
```

`risk_diet_exercise` *Access to Diet & Exercise Screening Data*

Description

This function returns a data frame about diet and exercise risk from State Cancer Profiles.

Usage

```
risk_diet_exercise(diet_exercise, race, sex)
```

Arguments

`diet_exercise`	One of the following values: • "bmi is healthy, ages 20+" • "bmi is obese, ages 20+" • "bmi is obese, high school survey" • "bmi is overweight, high school survey" • "consumed 1 or more fruits per day" • "consumed 1 or more vegetables per day" • "no leisure time physical activity".
`race`	One of the following values: • "All Races (includes Hispanic)" • "White (non-Hispanic)" • "Black (non-Hispanic)" • "American Indian / Alaska Native (non-Hispanic)" • "Asian / Pacific Islander (non-Hispanic)" • "Hispanic (Any Race)".
`sex`	One of the following values:

- "both sexes"
- "male"
- "female".

Value

A data frame with the following columns: Area Type, Area Code, Percent, Lower 95% CI, Upper 95% CI, Number of Respondents.

See Also

Other risks: risk_alcohol(), risk_colorectal_screening(), risk_smoking(), risk_vaccines(), risk_women_health()

Examples

```
## Not run:
risk_diet_exercise(
  diet_exercise = "bmi is healthy, ages 20+",
  race = "all races (includes hispanic)",
  sex = "both sexes"
)
risk_diet_exercise(
  diet_exercise = "bmi is obese, high school survey",
  race = "all races (includes hispanic)",
  sex = "males"
)

## End(Not run)
```

---

risk_smoking *Access to Smoking Data*

Description

This function returns a data frame about smoking risks from State Cancer Profiles.

Usage

```
risk_smoking(smoking, race = NULL, sex = NULL, datatype = NULL, area = NULL)
```

Arguments

smoking	The only permissible values are

- "smoking laws (any)"
- "smoking laws (bars)"
- "smoking laws (restaurants)"
- "smoking laws (workplace)"
- "smoking laws (workplace; restaurant; & bar)"
- "smokers (stopped for 1 day or longer)"
- "smoking not allowed at work (all people)"

- "smoking not allowed in home (all people)"
- "smoking not allowed at work (current smokers)"
- "smoking not allowed at work (former/never smokers)"
- "smoking not allowed in home (current smokers)"
- "smoking not allowed in home (former/never smokers)"
- "former smoker; ages 18+"
- "former smoker, quit 1 year+; ages 18+"
- "smokers (ever); ages 18+"
- "e-cigarette use; ages 18+"
- "smokers (current); ages 18+".

race — One of the following values:

- "All Races (includes Hispanic)"
- "White (non-Hispanic)"
- "Black (non-Hispanic)"
- "American Indian / Alaska Native (non-Hispanic)"
- "Asian / Pacific Islander (non-Hispanic)"
- "Hispanic (Any Race)".

sex — One of the following values:

- "both sexes"
- "male"
- "female".

datatype — One of the following values:

- "direct estimates"
- "county level modeled estimates".

area — A state/territory abbreviation or USA.

Details

Please note that this function requires very specific arguments for each smoking type.

Value

A data frame with the following columns: Area Type, Area Code, Percent, Lower CI 95%, Upper CI 95%, Number of Respondents.

See Also

Other risks: `risk_alcohol()`, `risk_colorectal_screening()`, `risk_diet_exercise()`, `risk_vaccines()`, `risk_women_health()`

Examples

```
## Not run:
risk_smoking(smoking = "smoking laws (any)")

risk_smoking(
  smoking = "smokers (stopped for 1 day or longer)",
  sex = "both sexes",
  datatype = "county level modeled estimates",
```

```
  area = "wa"
)

risk_smoking(
  smoking = "smoking not allowed at work (current smokers)",
  sex = "both sexes",
  datatype = "direct estimates"
)

risk_smoking(
  smoking = "smokers (current); ages 18+",
  race = "all races (includes hispanic)",
  sex = "both sexes",
  datatype = "county level modeled estimates",
  area = "wa"
)

## End(Not run)
```

`risk_vaccines` *Access to Vaccines Data*

Description

This function returns a data frame about vaccines risks from State Cancer Profiles.

Usage

```
risk_vaccines(vaccine, sex)
```

Arguments

`vaccine`	One of the following values: • `"percent with up to date hpv vaccination coverage, ages 13-15"`, • `"percent with up to date hpv vaccination coverage, ages 13-17"`.
`sex`	One of the following values: • `"both sexes"` • `"male"` • `"female"`.

Value

A data frame with the following columns: Area Type, Area Code, Percent, Lower 95% CI, Upper 95% CI, Number of Respondents.

See Also

Other risks: `risk_alcohol()`, `risk_colorectal_screening()`, `risk_diet_exercise()`, `risk_smoking()`, `risk_women_health()`

Examples

```
## Not run:
risk_vaccines(
  vaccine = "percent with up to date hpv vaccination coverage, ages 13-15",
  sex = "both sexes"
)

risk_vaccines(
  vaccine = "percent with up to date hpv vaccination coverage, ages 13-17",
  sex = "females"
)

## End(Not run)
```

---

risk_women_health *Access to Women's Health Data*

Description

This function returns a data frame about women's health risks from State Cancer Profiles.

Usage

```
risk_women_health(
  women_health,
  race,
  datatype = "direct estimates",
  area = NULL
)
```

Arguments

women_health	One of the following values: • "mammogram in past 2 years, ages 50-74" • "mammogram in past 2 years, ages 40+" • "pap smear in past 3 years, no hysterectomy, ages 21-65".
race	One of the following values • "All Races (includes Hispanic)" • "White (non-Hispanic)" • "Black (non-Hispanic)" • "American Indian / Alaska Native (non-Hispanic)" • "Asian / Pacific Islander (non-Hispanic)" • "Hispanic (Any Race)".
datatype	One of the following values: • "direct estimates" • "county level modeled estimates".
area	A state/territory abbreviation or USA.

Value

A data frame with the following columns: Area Type, Area Code, Percent, People Unemployed, Rank.

See Also

Other risks: `risk_alcohol()`, `risk_colorectal_screening()`, `risk_diet_exercise()`, `risk_smoking()`, `risk_vaccines()`

Examples

```
## Not run:
risk_women_health(
  women_health = "mammogram in past 2 years, ages 50-74",
  race = "all races (includes hispanic)",
  datatype = "direct estimates"
)

risk_women_health(
  women_health = "pap smear in past 3 years, no hysterectomy, ages 21-65",
  race = "all races (includes hispanic)",
  datatype = "county level modeled estimates",
  area = "wa"
)

risk_women_health(
  women_health = "pap smear in past 3 years, no hysteroetomy, ages 21-65",
  race = "black (non-hispanic)"
)

## End(Not run)
```

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