**Direct Care Project Part 1**

**Air Quality Assessment and Diagnosis Template**

**Directions:** Collect the data outlined in this template. Fill in the blanks in the tables provided. There are two parts - online data collection and a modified windshield survey data collection. You will then identify a nursing problem in a vulnerable population and write a nursing diagnosis. See the assignment directions and tutorial for suggestions and best practices. All information in a category must be completed. **Air quality will be the topic of your Assessment and Nursing Diagnosis Template and also Parts 2 through 4 of your course project.**

**Name:** **Date:**

**Online Data Collection**

1. **Community Information**

|  |  |
| --- | --- |
|  | Your Community Data |
| Name of city or town and state |  |
| Population |  |
| Nature of this community (rural, suburban, urban) |  |
| Describe your community in 2-3 sentences |  |

1. **Community Demographics**
	1. Go to <https://www.census.gov/quickfacts/fact/table/US/PST045218>
		1. The US data should automatically populate
		2. Input your zip code or county/township name
		3. Then input your state for comparison data
		4. Enter the data into the table below
		5. Compare the county, state, and US data

|  |  |  |  |
| --- | --- | --- | --- |
|  | County Data | State Data | U.S. Data |
| Population total |  |  |  |
| Male (subtract female % from 100) |  |  |  |
| Female |  |  |  |
| Persons under 5 |  |  |  |
| Persons over 65 |  |  |  |
| Race and origin data |
|  | **County Data** | **State Data** | **U.S. Data** |
| White alone |  |  |  |
| Black or African American alone |  |  |  |
| American Indian and Alaska Native alone |  |  |  |
| Asian alone |  |  |  |
| Native Hawaiian and other Pacific Islander alone |  |  |  |
| Two or more races |  |  |  |
| Hispanic or Latino |  |  |  |
| White alone, not Hispanic or Latino |  |  |  |
| Significant population characteristics |
|  | **County Data** | **State Data** | **U.S. Data** |
| Veterans |  |  |  |
| Foreign born persons |  |  |  |
| Housing overview |
|  | **County Data** | **State Data** | **U.S. Data** |
| Housing units |  |  |  |
| Owner-occupied housing unit rate |  |  |  |
| Median selected monthly owner costs with a mortgage |  |  |  |
| Median selected monthly owner costs without a mortgage |  |  |  |
| Median value of owner-occupied housing units |  |  |  |
| Median gross rent |  |  |  |
| Family and living arrangements |
|  | **County Data** | **State Data** | **U.S. Data** |
| Households |  |  |  |
| Persons per household |  |  |  |
| Living in same house 1 year ago |  |  |  |
| Language other than English spoken at home |  |  |  |
| Computer and Internet Use |
|  | **County Data** | **State Data** | **U.S. Data** |
| Households with a computer |  |  |  |
| Households with broadband internet subscription |  |  |  |
| Education |
|  | **County Data** | **State Data** | **U.S. Data** |
| High school graduate or higher |  |  |  |
| Bachelor’s degree or higher |  |  |  |
| Health |
|  | **County Data** | **State Data** | **U.S. Data** |
| With a disability under age 65 years |  |  |  |
| Persons without health insurance under age 65 years |  |  |  |
| Economy |
|  | **County Data** | **State Data** | **U.S. Data** |
| Civilian labor workforce ages 16+ |  |  |  |
| Transportation-mean travel time to work (minutes) |  |  |  |
| Income and poverty |
|  | **County Data** | **State Data** | **U.S. Data** |
| Median household income |  |  |  |
| Persons in poverty |  |  |  |

1. **Community Epidemiological Data**
	1. Go to: <https://www.countyhealthrankings.org/>
	2. Click on your state
		1. Start with Overall Rankings in Health Outcomes
		2. Then choose your county

 \*\*you will need to use the “+” to see all of the data\*\*

|  |  |  |
| --- | --- | --- |
|  | County Data | State Data |
| Health Outcomes Percentile |  | N/A |
| Health Factors Percentile |  | N/A |
| Premature death |  |  |
| Low birth weight |  |  |
| Adult smoking |  |  |
| Adult obesity |  |  |
| Physical inactivity |  |  |
| Excessive drinking |  |  |
| Alcohol impaired deaths |  |  |
| STIs |  |  |
| Teen births |  |  |
| Drug overdose deaths |  |  |
| Uninsured |  |  |
| Unemployment |  |  |
| Children in poverty |  |  |
| Violent crime |  |  |
| Air pollution |  |  |
| Drinking water violations |  |  |
| Long commutes |  |  |

1. **Respiratory Conditions**
	1. Go to <https://www.lung.org/research/trends-in-lung-disease/prevalence-incidence-lung-disease>
		1. Input your state
		2. Then identify your county

**\*\*Please note these are estimated amounts of total diseases. Communities with a higher population will likely have more cases. Be sure it is clear in your presentation that these totals are estimates.\*\***

|  |  |  |
| --- | --- | --- |
|  | County Data | State Data |
| Pediatric asthma |  |  |
| Adult asthma |  |  |
| COPD |  |  |
| Chronic lung disease |  |  |
| Lung cancer |  |  |

**Windshield Survey**

It is recommended that you have someone drive you around your community at least 2 times, ideally at different times of day and weekend vs. weekday.

|  |  |  |  |
| --- | --- | --- | --- |
| Look at the people in your community. Did you observe: | No | Yes | If Yes, provide number or state “many” “some” or “few” |
| * \*pregnant women
 |  |  |  |
| * \*pregnant adolescents
 |  |  |  |
| * \*infants (under age of 1 year old)
 |  |  |  |
| * \*young children (1-5 years old)
 |  |  |  |
| * \*school-age children (6-18 years old)
 |  |  |  |
| * adults (18 – 60 years old)
 |  |  |  |
| * \*older adults (over the age of 60 years old)
 |  |  |  |
| * people exercising
 |  |  |  |
| * people driving
 |  |  |  |
| * people walking
 |  |  |  |
| * people biking
 |  |  |  |
| * people congregating in groups on the street
 |  |  |  |
| * \*people that had hygiene issues or were unkempt
 |  |  |  |
| * people that were appropriately dressed
 |  |  |  |
| * people that were physically fit
 |  |  |  |
| * people that were obese
 |  |  |  |
| * \*people that were undernourished, thin
 |  |  |  |
| * people that appear healthy
 |  |  |  |
| * \*people that have obvious physical disabilities, such as those using walkers or wheelchairs
 |  |  |  |
| * \*people with apparent mental/emotional disabilities
 |  |  |  |
| * \*people who appeared homeless or unemployed
 |  |  |  |

 **\*Represents vulnerable populations**

|  |  |  |  |
| --- | --- | --- | --- |
| Social and Economic ConditionsDid you observe: | No | Yes | If Yes, provide number or state “many” “some” or “few” |
| * housing that was run down or dilapidated
 |  |  |  |
| * areas undergoing renewal
 |  |  |  |
| * public housing
 |  |  |  |
| * public transit (subway, train, buses, taxis, etc.)
 |  |  |  |
| * transportation to health care resources
 |  |  |  |
| * landfills
 |  |  |  |
| * restaurants
 |  |  |  |
| * any political signs
 |  |  |  |
| * any evidence of health education on billboards, advertisements, or signs
 |  |  |  |
| * any efforts to improve the neighborhood’s health such as advertisements for health-related events, health fairs, clinics, or lectures
 |  |  |  |
| * any group efforts in the neighborhood to improve the living conditions or the neighborhood
 |  |  |  |
| * churches, synagogues, mosques, and other places of worship
 |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Health ResourcesDid you observe: | No | Yes | If Yes, provide number or state “many” “some” or “few” |
| * hospitals
 |  |  |  |
| * community clinics
 |  |  |  |
| * family planning clinics
 |  |  |  |
| * generalist doctors
 |  |  |  |
| * dentist offices
 |  |  |  |
| * pharmacies
 |  |  |  |
| * urgent care clinics
 |  |  |  |
| * skilled nursing facilities
 |  |  |  |
| * mental health or counselling clinics
 |  |  |  |
| * homeless or abuse shelters
 |  |  |  |
| * public health department office
 |  |  |  |
| * substance abuse treatment center
 |  |  |  |
| * alternative medicine practices, botanicals, or herbal medicine shops
 |  |  |  |

|  |
| --- |
| **Answer the following question:** |
| If some of the above health resources were not observed, approximately how far away would a person need to travel to find these resources? |

|  |  |  |  |
| --- | --- | --- | --- |
| Environmental Conditions Did you observe: | No | Yes | If Yes, provide number or state “many” “some” or “few” |
| * evidence of anything that might make you suspicious of ground, water, or air pollutants
 |  |  |  |
| * poor road conditions with potholes, or poor drainage
 |  |  |  |
| * adequate traffic lights, signs, sidewalks, and curbs
 |  |  |  |
| * railroad crossings fitted with warnings and barriers
 |  |  |  |
| * streets and parking lots well lit
 |  |  |  |
| * handicapped access to buildings, sidewalks, and streets
 |  |  |  |
| * recreational facilities, playgrounds, and/or facilities like the YMCA
 |  |  |  |
| * children playing in the streets, alleys, yards, or parks
 |  |  |  |
| * evidence of nuisances such as ants, flies, mosquitoes, or rodents, or stray animals observed
 |  |  |  |

**Problem**

Identify a nursing problem based on your data and observations. The problem must be related to **air quality**. Example: Childhood asthma

**Problem Identification: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Vulnerable Population**

Identify the vulnerable population that is most impacted by this problem. Example: Children

**Vulnerable Population Identification: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Diagnosis**

Write a nursing diagnosis based on your problem from above. Fill in the blanks below.

*Example*: Increased risk of asthma among children related to local air pollution demonstrated in county childhood asthma rates.

\*See chapter 6 in the Nies and McEwen (2019) textbook for more examples of composing a community health nursing diagnosis.

**Nursing Diagnosis:** Increased risk of\_\_\_\_\_\_\_\_\_\_\_\_(problem from above) among \_\_\_\_\_\_\_\_\_\_\_\_ (vulnerable population from above) related to \_\_\_\_\_\_\_\_\_\_\_(etiological statement) as demonstrated in \_\_\_\_\_\_\_(health indicators/community data from above)

**References**

American Lung Association. (2020). E*stimated prevalence and incidence of lung disease.* <https://www.lung.org/research/trends-in-lung-disease/prevalence-incidence-lung-disease>

County Health Rankings and Roadmaps. (2018). Explore rankings. <http://www.countyhealthrankings.org/>

U.S. Census Bureau. (2018). State and county QuickFacts.  <https://www.census.gov/quickfacts/>