### Gateway Health - Applied Public Health Project, Nov 2015

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| Project Title: | Effects of Built Environment (BE) |

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<td>Gateway (<a href="http://www.GatewayHealthPlan.com">www.GatewayHealthPlan.com</a>) delivers Medicaid and Medicare (D-SNP, C-SNP) to low-income individuals in PA, OH, WV, DE, NC, and KY. Gateway knows that Built Environment (BE) can have detrimental effects on the health, health outcomes and overall lives of individuals living in poverty. This project is broad and seeks to study various types of BE, understand the effect of BE on Gateway members and problem-solve how to best confront BE in order to improve health, health outcomes and health care utilization. BE topics could include but not be limited to:</td>
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<tr>
<td>- Neighborhood Ambient Stressors / Disordered Living Conditions</td>
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<td>- Adolescent v. Adult perceptions about neighborhood strengths &amp; structural disadvantages/safety</td>
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<td>- Air Quality Action days</td>
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<td>- Sanitation and water quality</td>
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<td>- Noise pollution</td>
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<th>Primary Activities / Duties to be Completed</th>
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<td>- Collaborate with the Director of the Population Health Strategy team, Clinical Quality Management Analysts, the Senior Decision Analyst Consultant and Health Service Researchers to study Built Environment topics as applied to medical assistance populations and specific, local communities</td>
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<td>- Collaborate on studying data to identify trends, disparities, utilization patterns as linked to BE impact</td>
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<td>- Conduct a literature review relevant to the BE topic being researched</td>
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<td>- A report detailing:</td>
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<td>- Findings of the BE topic on Gateway’s member population and/or on low-income member-like populations</td>
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<td>- Recommendations for how to incorporate ‘lessons learned’ into daily operations to improve health outcomes and health care practices</td>
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Gateway (www.GatewayHealthPlan.com) delivers Medicaid and Medicare (D-SNP, C-SNP) to low-income individuals in PA, OH, WV, DE, NC, and KY. Gateway is expanding its footprint out in the urban and rural communities it serves, throughout PA. A student is needed to work alongside the Clinical Quality Management Analyst, who specializes in pediatric measures, to coordinate special community activities that promote adolescent health (11 – 20 year olds). Particular adolescent health related areas of concern for Gateway include HPV vaccination, annual check-ups (physical and oral health), STD prevention and screening, healthy weight/lifestyles, and more. Planned activities include but are not limited to health-related film screenings/discussion, targeted “focus group” feedback sessions, community health education at special events, county fairs, boys & girls clubs, 4H clubs, and other youth serving venues. The student could specialize in targeting urban and/or rural areas.

**Primary Activities / Duties to be Completed**

- Collaborate with the Pediatric Clinical Quality Management Analyst to coordinate project activities in urban and rural communities
- Collaborate on identifying health disparities and possible solutions
- Conduct a literature review, as needed, relevant to the adolescent health topics being carried out in the communities

**Project Deliverables**

By the end of a 4 – 6 month practicum, the student will be expected to produce:

- A brief literature review relevant to the project’s work, findings and/or outcomes
- At least three separate special events
- A report of additional ideas on the best ways to engage adolescents in health and health care

**Specific Qualifications**

- Demonstrated interest in working with youth
- Experience directing or assisting with youth-related programming is a plus
- Have a be able to use personal vehicle is a plus (mileage reimbursement would be paid)
- An interest in working with a company that is striving to have positive impacts on individuals living in poverty
- Knowledge of community health education
- Must be highly comfortable with Microsoft Office, including Excel
- Must have strong written and oral presentation communication skills
- Ability to work independently to efficiently and effectively meet deadlines
Gateway (www.GatewayHealthPlan.com) delivers Medicaid and Medicare (D-SNP, C-SNP) to low-income individuals in PA, OH, WV, DE, NC, and KY. This project will focus on Gateway’s maternity program, primarily with a Medicaid population, and retrospectively study approximately five years’ worth of data to identify trends and any lessons learned with regards to maternal and child health (MCH), maternal health outcomes, birth outcomes, utilization trends, and more.

**Primary Activities / Duties to be Completed**

- Collaborate with Gateway’s Maternity Clinical Quality Management Analyst
- Study an extensive database (approximately 40,000 births in Pennsylvania) to identify:
  - Trends - positive or negative – with regards to the health of the mothers and/or babies
    - Geography
    - Race/ethnicity
    - Compared to State trends
    - When coming on with us? Were they members already? Did they enroll because they are pregnant? What is the timing for when they came on?
  - Healthcare disparity red flags
  - Utilization patterns
- Conduct a literature review relevant to this project’s MCH research work

**Project Deliverables** [Describe the work product that will be expected of the student upon conclusion of practicum activities. For example: a database, analysis report, community presentation, brochures or educational materials, site visits.]

By the end of the practicum, the student will be expected to present, at minimum:

- An analysis report describing:
  - MCH trends in Gateway’s Medicaid population from 2011 – 2015
  - Recommendations for program improvements
- A brief literature review relevant to the project’s MCH work, findings and/or outcomes

**Specific Qualifications** [List any specific skills or resources needed to complete the project, such as access to a vehicle or ability to use specific software.]

- An interest in maternal health topics - prenatal and postpartum
- An intense interest in figuring out what “story” the data is telling
- Knowledge of biostatistics and/or epidemiology a plus
- Must be able to function at a high level with Microsoft office, especially Excel
- Must have strong written and oral presentation communication skills
- Ability to work independently to efficiently and effectively meet deadlines
**Project Title:** Housing is a Health Care Issue

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**Project Description** [Enter summary of practicum opportunity. This may include information about the target population, nature and scope of work, overall project goals, and work environment.]

Gateway ([www.GatewayHealthPlan.com](http://www.GatewayHealthPlan.com)) delivers Medicaid and Medicare (D-SNP, C-SNP) to low-income individuals in PA, OH, WV, DE, NC, and KY. Gateway knows that the housing, or a lack thereof, can have detrimental effects on the health, health outcomes and overall lives of individuals living in poverty. This project seeks to study various models of “housing as health care” such as, but not limited to, the Housing First model, and make recommendations about models that could be applied with Gateway member populations.

**Primary Activities / Duties to be Completed**

- Collaborate with the Director of the Population Health Strategy team, Clinical Quality Management Analysts, the Senior Decision Analyst Consultant and Health Service Researchers to study Built Environment topics as applied to medical assistance populations and specific, local communities
- Collaborate on studying data to identify trends, disparities, utilization patterns as linked to housing and health care
- Conduct a literature review relevant to this Built Environment topic being researched

**Project Deliverables** [Describe the work product that will be expected of the student upon conclusion of practicum activities. For example: a database, analysis report, community presentation, brochures or educational materials, site visits.]

By the end of the practicum, the student will be expected to produce, at minimum:

- A brief literature review relevant to the project’s work, findings and/or outcomes
- A report detailing:
  - Findings of the housing topic on Gateway’s member population and/or on low-income member-like populations
  - Recommendations for how to incorporate ‘lessons learned’ into daily operations to improve health outcomes and health care practices

**Specific Qualifications** [List any specific skills or resources needed to complete the project, such as access to a vehicle or ability to use specific software.]

- An interest in working with large data sets to study community health
- An interest in working with modeling tools that can have a positive impact on individuals living in poverty
- Knowledge of biostatistics and/or epidemiology a plus
- Must be proficient with Microsoft Office
- Must have strong written and oral presentation communication skills
- Ability to work independently to efficiently and effectively meet deadlines
### Gateway Health

**Project Title:** Impact of Member “Churn”

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**Project Description**

Gateway ([www.GatewayHealthPlan.com](http://www.GatewayHealthPlan.com)) delivers Medicaid and Medicare (D-SNP, C-SNP) to low-income individuals in PA, OH, WV, DE, NC, and KY. With the passage of ACA, more individuals than ever before will potentially be “churning” between government payer coverage (Medicaid) and coverage through the Exchanges. What happens to the health and health outcomes of individuals like this as they “churn” over and over again? Do they have better, worse or the same health outcomes as “non-churning” counterparts? These are just two questions that this project seeks to answer.

**Primary Activities / Duties to be Completed**

- Collaborate with the Senior Decision Analyst Consultant, Health Service Researcher and Decision Support Analysts to study trends and patterns related to enrollment/disenrollment and effects on individuals and communities
- Collaborate on studying data to identify trends, disparities, utilization patterns
- Conduct a literature review relevant to “member churn”

**Project Deliverables**

By the end of the practicum, the student will be expected to produce, at minimum:

- A brief literature review relevant to the project’s work, findings and/or outcomes
- A report detailing:
  - Findings how “churn” is being witnessed within Gateway’s member population
  - Recommendations for how to incorporate ‘lessons learned’ into daily operations to improve health outcomes and health care practices

**Specific Qualifications**

- An interest in working with large data sets
- An interest in working with a company that is striving to have positive impacts on individuals living in poverty
- Knowledge of community health, biostatistics and/or epidemiology
- Must be highly comfortable with Microsoft Office, including Excel
- Must have strong written and oral presentation communication skills
- Ability to work independently to efficiently and effectively meet deadlines
**Project Title:** Predict the Future: Identify patients most likely to admit to a hospital *before* they actually admit

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Gateway ([www.GatewayHealthPlan.com](http://www.GatewayHealthPlan.com)) delivers Medicaid and Medicare (D-SNP, C-SNP) to low-income individuals in PA, OH, WV, DE, NC, and KY. Gateway is designing a series of analytical tools and predictive model. One such model is focused on “Predictable Admissions”. The goal is to mine and effectively use various data streams to identify patients who are most likely to be admitted to a hospital, before they actually get admitted. This data will help Gateway think about programs and interventions that are applied with Medicaid and Medicare (primarily dual-eligible) populations in order to avoid admissions, improve appropriate health utilization, improve outcomes, and more.

**Primary Activities / Duties to be Completed**

- Collaborate with the Senior Decision Analyst Consultant and Decision Support Analysts to help design an effective predictive modeling tool
- Handle various data sets to identify trends, disparities, utilization patterns
- Conduct a literature review relevant to this project’s research work

**Project Deliverables** [Describe the work product that will be expected of the student upon conclusion of practicum activities. For example: a database, analysis report, community presentation, brochures or educational materials, site visits.]

By the end of the practicum, the student will be expected to present, at minimum:

- An analysis report describing:
  - The steps taken to design the predictive tool
  - Recommendations for how to best apply the tool to improve programs, interventions, internal workflows, health outcomes and member care
- A brief literature review relevant to the project’s work, findings and/or outcomes

**Specific Qualifications** [List any specific skills or resources needed to complete the project, such as access to a vehicle or ability to use specific software.]

- An interest in working with large data sets, i.e. approximately 450,000 lives
- An interest in working with modeling tools that can impact the lives of individuals living in poverty
- Knowledge of biostatistics
- Knowledge of SAS and/or SQL a plus
- Must be proficient with Microsoft Excel
- Must have strong written and oral presentation communication skills
- Ability to work independently to efficiently and effectively meet deadlines
### Project Title: Population Growth Model

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#### Project Description

Gateway ([www.GatewayHealthPlan.com](http://www.GatewayHealthPlan.com)) delivers Medicaid and Medicare (D-SNP, C-SNP) to low-income individuals in PA, OH, WV, DE, NC, and KY. Gateway is designing a series of tools that will build predictive health care models. One such tool will focus on how the Medicaid population in Pennsylvania, as well as several other contiguous States, may grow and/or geographically be represented in the next 5 to 10 to 15 years. This project’s goal is to map out various population growth models, and match those up against business needs, to anticipate how Gateway can best maneuver to serve medical assistance populations (urban and rural) in the years to come.

#### Primary Activities / Duties to be Completed

- Collaborate with the Senior Decision Analyst Consultant and Decision Support Analysts to help design an effective model or tool
- Handle various data sets to identify trends, disparities, utilization patterns
- Conduct a literature review relevant to this project’s research work

#### Project Deliverables

By the end of the practicum, the student will be expected to produce, at minimum:

- An analysis report describing:
  - The steps taken to design the population growth model tool
  - Recommendations for how a population growth model can be best applied in a medical assistance Plan atmosphere to anticipate the needs of members and the health care industry
- A brief literature review relevant to the project’s work, findings and/or outcomes

#### Specific Qualifications

- An interest in working with large data sets
- An interest in working with modeling tools that can have a positive impact on individuals living in poverty
- Knowledge of biostatistics and/or epidemiology
- Knowledge of SAS and/or SQL a plus
- Must be proficient with Microsoft Office
- Must have strong written and oral presentation communication skills
- Ability to work independently to efficiently and effectively meet deadlines