Butler Memorial Hospital Community Health Needs Assessment 2016

Intro:

Butler Memorial Hospital (BMH) has conducted Community Health Assessments for over 20 years to guide resource allocation and service development. Past major initiatives that have been started or programs that have received ongoing support due to the recognized community needs have been:

<table>
<thead>
<tr>
<th>Program</th>
<th>Year Started</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maternal Services Program</td>
<td>1990</td>
</tr>
<tr>
<td>Family First (support)</td>
<td>1992</td>
</tr>
<tr>
<td>Mammography Outreach</td>
<td>1996</td>
</tr>
<tr>
<td>Women’s Imaging Center</td>
<td>1999</td>
</tr>
<tr>
<td>Cardiovascular Surgery</td>
<td>1999</td>
</tr>
<tr>
<td>Best Practices Stroke Care</td>
<td>2005</td>
</tr>
<tr>
<td>Community Hospital Comprehensive Cancer Program</td>
<td>2006</td>
</tr>
<tr>
<td>Tumor Registry</td>
<td>2006</td>
</tr>
<tr>
<td>Community Health Clinic (support)</td>
<td>2008</td>
</tr>
<tr>
<td>Pediatric Hospitalist Program</td>
<td>2012</td>
</tr>
<tr>
<td>Lung Cancer Screening</td>
<td>2014</td>
</tr>
</tbody>
</table>

Service Area:

Butler Memorial Hospital defines its service area as Butler County because more than 70% of encounters for inpatient and outpatient services are provided to residents of Butler County.

Butler County Demographics (full demographics appendix A):

<table>
<thead>
<tr>
<th></th>
<th>2014 estimate (%)</th>
<th>2010 Census (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Population: 186,818</td>
<td>5</td>
<td>5.4</td>
</tr>
<tr>
<td>Age &lt;5</td>
<td>20.8</td>
<td>22.4</td>
</tr>
<tr>
<td>Age &gt;65</td>
<td>17</td>
<td>15.1</td>
</tr>
<tr>
<td>Caucasian</td>
<td>96.3</td>
<td>96.6</td>
</tr>
<tr>
<td>African American</td>
<td>1.3</td>
<td>1.1</td>
</tr>
<tr>
<td>Veterans</td>
<td>14,959</td>
<td>NA</td>
</tr>
</tbody>
</table>

Major Healthcare Facilities in Butler County:

- Butler Memorial Hospital
- UPMC Cranberry
- Skilled Nursing Facilities and other services (appendix B)

Data Sources Used to Make This Assessment:

- Behavioral Risk Factor Surveillance Study Southwestern Pennsylvania Region excluding Allegheny County
- United States Census
- PA Epi
- Healthy People 2020
- Pennsylvania Death Statistics
- Robert Wood Johnson Foundation County Health Rankings
- Stakeholder Interviews
- 2012 Pennsylvania Asthma Burden Report
- 2012 Pulse of Pennsylvania Physician and Physician’s Assistant Workforce published June 2014
Assessment Committee Membership:

A. Thomas McGill, MD  Vice President Quality and Safety BMH - Chair, Family Practice Physician, Behavioral Health RN, School Nurse, Area Agency on Aging Representative, Epidemiologist

Information Gaps:

Most health outcome statistics are not stratified by income or education level. Assumptions based on state or national data that have a different demographic makeup must be made. Because Butler County has a very small minority population linkages between income, race, and health outcomes present at the state or national level are likely to be different for Butler County.

Butler County Health Needs:

The committee has used the above named data sources to identify gaps or unmet community health needs. These are prioritized to address needs that may have the greatest impact on overall health status of the populations affected.

Previously Identified and Ongoing:

- Obesity and Lack of Exercise:
  - Obesity and lack of exercise are associated with Type 2 Diabetes. Obesity is a national phenomenon. There is little evidence that community level interventions have a significant impact on obesity. The geography and population density of Butler County require that most residents drive or ride to work, school, and to nearly all destinations for shopping. For instance, in the Behavioral Risk Factor Surveillance Study, 39 to 40% of respondents report a long commute to work. In 2010 25% of county residents were obese, in 2015 30% were obese; this is consistent with national trends. From 2011 to 2012 the percent reporting physical inactivity fell from 24% to 23% but physical inactivity has remained steady at 23% for the last 4 years in spite of more access to exercise: from 72% to 79% between 2014 and 2015.
  - A recent report by Raj Chetty in JAMA suggested that location of residence and thus local policy might have an impact health separately from income. The Committee will monitor this topic to see if this observation is proven to be substantiated by other investigators. (http://www.nytimes.com/interactive/2016/04/11/upshot/where-the-poor-live-longer-how-your-area-compares.html?_r=0)

- Cancer:
  Cancer remains the leading cause of premature death in Butler County. Lung Cancer and breast cancer are the two most common types of cancer causing premature death. Cancer screening programs are in place for these two diseases. The Cancer Committee monitors the performance and outcomes of these programs. These are also reported by BMH at its annual community report.

New Topics:

- Asthma In Children:
  Is associated with adult smoking and particulate air pollution: 18-19% of adults smoke, Butler County has the second highest level of small particulate air pollution (PM 2.5) in Pennsylvania. Particles less than 2.5 microns are not filtered by the upper airway defense systems and reach the lung and are absorbed into the body. School nurses identify asthma as the leading chronic health condition for which
they oversee medication administration or use at school. Reliable access to medication is a problem that school nurses identify for a segment of the children in school.

- **Maternal Fetal Health:**

  Countywide maternal fetal health statistics have shown a small decline in the health of this population after many years of steady improvement. A county has many neighborhoods and subgroups. BMH has engaged an epidemiologist to perform an investigation to understand this change in long term trends with a focus on identifying areas that may benefit from targeted outreach.

<table>
<thead>
<tr>
<th>Healthy People 2020 Maternal Fetal Health Butler County</th>
<th>2020 Goal</th>
<th>2008-2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>% of low-risk* first-time mothers giving birth by cesarean</td>
<td>23.9</td>
<td>28.0</td>
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<tr>
<td>% of live births to women who did not smoke during pregnancy</td>
<td>98.6</td>
<td>85.1</td>
</tr>
<tr>
<td>% of mothers who breastfeed their babies*</td>
<td>81.9</td>
<td>76.4</td>
</tr>
<tr>
<td>% of low-risk* women giving birth by cesarean with a prior cesarean birth</td>
<td>81.7</td>
<td>89.0</td>
</tr>
<tr>
<td>*Adequacy of Prenatal Care Utilization Index</td>
<td>77.6</td>
<td>84.3</td>
</tr>
<tr>
<td>Fetal mortality rate* (20+ weeks gestation) (per 1,000 live births and non-induced fetal deaths of 20+ weeks gestation)</td>
<td>5.6</td>
<td>6.3</td>
</tr>
<tr>
<td>% live births to mothers beginning prenatal care in first trimester</td>
<td>77.9</td>
<td>81.5</td>
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<tr>
<td>% of live births at 34 to 36 weeks of gestation</td>
<td>8.1</td>
<td>6.7</td>
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<tr>
<td>% of infants born at low birth weight (LBW) (less than 2500 grams)</td>
<td>7.8</td>
<td>6.4</td>
</tr>
<tr>
<td>% of preterm live births (less than 37 weeks gestation)</td>
<td>11.4</td>
<td>8.8</td>
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<tr>
<td>% of live births at 32-33 weeks of gestation</td>
<td>1.4</td>
<td>1.1</td>
</tr>
<tr>
<td>% of infants born at very low birth weight (VLBW) (less than 1500 grams)</td>
<td>1.4</td>
<td>0.7</td>
</tr>
<tr>
<td>% of live births at less than 32 weeks of gestation</td>
<td>1.8</td>
<td>1.0</td>
</tr>
<tr>
<td>Pregnancy rate among adolescent females aged 15-17 (per 1,000 females 15-17)</td>
<td>36.2</td>
<td>8.7</td>
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- **High Rates of Osteoporosis Fractures:**

<table>
<thead>
<tr>
<th>COUNTY BUTLER</th>
<th>2020 Goal</th>
<th>County 2007-11</th>
<th>County 2006-10</th>
<th>County 2005-09</th>
<th>County 2004-08</th>
<th>County 2003-07</th>
</tr>
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<tbody>
<tr>
<td>Hospitalization rate for hip fracture among females 65+ (per 100,000) (age-adjusted to 2000 std population)</td>
<td>741.2</td>
<td>892.7</td>
<td>981.4</td>
<td>1019.0</td>
<td>1072.6</td>
<td>1134.4</td>
</tr>
</tbody>
</table>

While there has been an important improvement in hip fractures in women over 65 since 2003, Butler County has a relatively high rate of hip fractures in this population group. A hip fracture requires surgery, may ultimately be fatal, limits mobility and may force the person to leave their home.

- **Low Rates of Early Childhood Immunization:**

  Early Childhood immunization rates in Butler County are lower than Pennsylvania averages. Pennsylvania is lower than US national rates. By 7th grade Butler County children are up-to-date on their immunizations. Barriers to immunizations based on time, transportation and money are part of this problem.

<p>| DT4 doses | Polio 3 doses | MMR 2 doses | Hepatitis B 3 doses | Varicella 2 doses |</p>
<table>
<thead>
<tr>
<th></th>
<th>Grade</th>
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<th>Grade</th>
<th>Grade</th>
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<tbody>
<tr>
<td>PA Kindergarten</td>
<td>94</td>
<td>86</td>
<td>93</td>
<td>84</td>
<td>84</td>
</tr>
<tr>
<td>Butler Kindergarten</td>
<td>68</td>
<td>73</td>
<td>64</td>
<td>72</td>
<td>67</td>
</tr>
<tr>
<td>PA 7th grade</td>
<td>95</td>
<td>96</td>
<td>96</td>
<td>93</td>
<td>92</td>
</tr>
<tr>
<td>Butler 7th grade</td>
<td>98</td>
<td>98</td>
<td>97</td>
<td>97</td>
<td>92</td>
</tr>
</tbody>
</table>

DT = Diphtheria/Tetanus    MMR = Measles Mumps Rubella    Varicella= Chickenpox

- **Opioid Overdose Epidemic:**

  National and State Authorities across the country have identified opioid addiction and overdoses as a national crisis. BMH will fully participate and in these programs as they apply to physician education and best practices and patient education.

**Implementation Groups and Preliminary Timeline:**

- **Asthma in Children**
  - Form Committee with Stakeholders in early Fall 2016: School Nurses, Providers, Parents
  - Specify management needs and collaboration options
  - Develop implementation plan by year end 2016

- **Maternal-Fetal Health**
  - BHS engage epidemiologist in collaboration with University of Pittsburgh School of Public Health to analyze data in more detail to identify opportunities for focused outreach, services to improve this population’s health and health outcomes. In particular for low income or uninsured people.
  - Implement 1 intervention within 1 year after options reported

- **Osteoporosis Fractures in Older Women**
  - Form Committee of Providers and Area Agency on Aging to develop intervention plan and metrics. Second half of 2016.

- **Low Rates of Childhood Immunization**
  - Focus education and increase access to vaccination. BHS and PA DOH collaborate to increase access by reducing financial, transportation, time availability and knowledge barriers to vaccination.

- **Opioid Overdose and Addiction**
  - BMH sponsor 1 CME activity for Medical Staff in FY 2017 and 2018.
  - BMH develop plan to enhance availability of naloxone in community
Appendix A

Butler County, Pennsylvania

People

Population
Population estimates, July 1, 2015, (V2015) 186,818.00
Population estimates, July 1, 2014, (V2014) 185,943.00
Population estimates base, April 1, 2010, (V2015) 183,862.00
Population estimates base, April 1, 2010, (V2014) 183,862.00
Population, percent change - April 1, 2010 (estimates base) to July 1, 2015, (V2015) 1.60
Population, percent change - April 1, 2010 (estimates base) to July 1, 2014, (V2014) 1.10
Population, Census, April 1, 2010 183,862.00

Age and Sex
Persons under 5 years, percent, July 1, 2014, (V2014) 5.00
Persons under 5 years, percent, April 1, 2010 5.40
Persons under 18 years, percent, July 1, 2014, (V2014) 20.80
Persons under 18 years, percent, April 1, 2010 22.40
Persons 65 years and over, percent, July 1, 2014, (V2014) 17.00
Persons 65 years and over, percent, April 1, 2010 15.10
Female persons, percent, July 1, 2014, (V2014) 50.60
Female persons, percent, April 1, 2010 50.80

Race and Hispanic Origin
White alone, percent, July 1, 2014, (V2014) (a) 96.30
White alone, percent, April 1, 2010 (a) 96.60
Black or African American alone, percent, July 1, 2014, (V2014) (a) 1.30
Black or African American alone, percent, April 1, 2010 (a) 1.10

Population Characteristics
Veterans, 2010-2014 14,959.00
Foreign born persons, percent, 2010-2014 1.90

Housing
Housing units, July 1, 2014, (V2014) 80,358.00
Housing units, April 1, 2010 78,167.00
Owner-occupied housing unit rate, 2010-2014 76.40

Families and Living Arrangements
Households, 2010-2014 74,138.00
Persons per household, 2010-2014 2.42
Living in same house 1 year ago, percent of persons age 1 year+, 2010-2014 88.70
Language other than English spoken at home, percent of persons age 5 years+, 2010-2014 2.70

Education
High school graduate or higher, percent of persons age 25 years+, 2010-2014 93.20
Bachelor’s degree or higher, percent of persons age 25 years+, 2010-2014 31.70

Health
With a disability, under age 65 years, percent, 2010-2014 7.20
Persons without health insurance, under age 65 years, percent 8.60

Economy
In civilian labor force, total, percent of population age 16 years+, 2010-2014 64.80
In civilian labor force, female, percent of population age 16 years+, 2010-2014 59.30

Appendix B Healthcare Resources in Butler County

- Skilled Nursing Facilities: [http://www.co.butler.pa.us/Files/Admin/Skilled-Nursing%281%29.pdf](http://www.co.butler.pa.us/Files/Admin/Skilled-Nursing%281%29.pdf)
- Behavioral Health Resources
Appendix B

HUMAN SERVICE GUIDE FOR BUTLER COUNTY

Compiled by: Butler Health System

Abuse/Protection

- Butler County Children & Youth: 724-284-5156
- Childline: 800-932-0313
- Butler Area Agency on Aging: 724-282-3008
- VOICE: 800-400-8551
  (Victim Outreach Intervention Center)

Advocacy

- Assoc. for Retarded Citizens: 724-282-1500
- Community Care Connections: 724-283-3198
- Lifesteps, Inc.: 724-283-1010
- Mental Health Association: 724-287-1965
- Parent Education Network: 800-522-5827
- PA Protection & Advocacy: 800-692-7443
- St. Vincent de Paul: 724-287-3994
- Torrance State Hosp. Advocates: 724-459-8000

Children/Adolescents

- Butler Co. Children’s Center, Inc.: 724-287-2761
- Butler Co. Children & Youth: 724-284-5156
- Butler Co. Head Start: 724-287-2762
- Butler Co. Juvenile Probation: 724-284-5355
- Child Care Info Services: 724-285-9431
  Also: 888-986-4550
- Community Care Connections: 724-283-3798
- Family Pathways: 724-284-9440
- Family Services of Butler Hospital: 724-284-4894
- Grace Youth and Family Foundation: 724-282-0507
- Northwestern Human Services: 724-287-2199
- Special Kids Network: 800-986-4550
- Women/Infants/Children of Butler: 866-942-2778

Education

- Butler Area School District: 724-287-8721
- Butler Co. Vo-Tech: 724-282-0735
- Early Intervention: 800-942-8035
- Education Law Center- PA: 412-391-5225
- Family Services of Butler Hospital: 724-284-4894
- Freeport Area School District: 724-295-5141
- Karns City School District: 724-756-2030
- Mars Area School District: 724-625-1518
- Midwestern Intermediate Unit IV: 724-458-6700
- Moniteau School District: 724-637-2091
- PACE Learning Center: 412-244-1900
- PA Dept. of Education: 717-783-6788
- PA Training & Technical Assistance: 800-446-5607
- Seneca Valley School District: 724-452-6040
- Slippery Rock Area School District: 724-794-2960
Elderly

Butler Area Agency on Aging    724-282-3008
Also                    888-367-2434
Butler Health Systems- Geriatric    724-284-4321
Butler Health Systems Transitional Care  724-284-4307
Community Health Clinic            724-841-0980
Geriatric Adult Day Care           724-283-1010
LIFE Butler County                724-287-5433
Lutheran Service Society          724-283-9002

Health

Amedysis Home Health               724-284-4663
Adagio Health                     724-282-2730
Butler Health System              724-283-6666
BHS Maternal Services             724-284-4867
Community Health Clinic           724-841-0980
Concordia Visiting Nurses         724-352-6200
Klingensmith’s                    800-272-3233
Red Cross                         724-283-2810
Visiting Nurses Association       724-282-6806
Women/Infant/Children             866-942-2778

Housing/Homeless

Catholic Charities                724-287-4011
DeShon Charities                  724-285-2753
H.O.P.E.(Center for Comm. Resources) 724-431-0095
Housing Authority of Butler County 724-287-6797
Lighthouse                        724-898-4673
Salvation Army                    724-287-5532
St. Vincent de Paul               724-287-3994

Emergency

24 Hour Response                  911
Center for Community Resources    724-431-0095

Crisis Hotline 800-292-3866
Poison Control                    800-222-1222
Also                              412-681-6669
VOIce                             800-400-8551
Veteran’s Crisis Hotline 800-273-8255
Warmline (limited hours)          724-431-2488

Evaluation/Assessment

Blind Association of Butler County 724-287-4059
Butler Co. Drug/Alcohol Program    724-284-5114
Butler Health System              724-283-6666
Center for Community Resources    724-431-0095
Children’s Hospital North         724-935-8400
Family Services of Butler Health Sys. 724-284-4894
Glade Run Lutheran Services       877-745-2337
Also                              724-284-4936
The Care Center (formerly ISCMHC) 724-287-0791
Lifesteps, Inc. (Hearing and Speech) 724-283-1010
Midwestern Intermediate Unit IV    800-942-8035
Office of Vocational Rehabilitation 724-656-3070
Also                              800-442-6379

Information/Referral

Butler Co. Info and Referral      724-287-3918
Also                              800-944-1449
Center for Community Resources    724-431-0095
Family Services of Butler Hospital 724-284-4894
Mental Health Association (MHA)   724-287-1965
Social Security Administration    724-282-7274
St Vincent de Paul                724-287-3994
United Way of Butler County       724-285-4883
Also                              877-605-2260
Weatherization                    724-431-3709

Legal Services

Disabilities Law Project          412-391-5225
District Attorney of Butler County 724-284-5222
Domestic Relations                724-284-5181
Education Law Center              412-391-5225
Juvenile Court Services           724-284-5355
Neighborhood Legal Services       724-282-3888
PA Bar Association                800-932-0311
PA Health Law Project             800-274-3258
Public Defender’s Office          724-284-5335
Victim Witness Unit (DA’s Office) 724-284-5332

Mental Health Services

Butler County MH/DS               724-284-5114
Care Center 724-234-1370 or       724-234-1255
Center for Community Resources    724-431-0095
Glade Run 877-745-2337 or         724-452-4453
Kid’s Count/Family Psychological   724-287-1880
Mental Health Association         724-287-1965
PBS Mental Health Associates      724-282-1627
Veteran’s Administration MH Clinic 724-477-5039
Vocational and Psychological Services 724-287-5604
Wellness Works                    724-282-0332
<table>
<thead>
<tr>
<th>Psychiatric Hospital Services</th>
<th>Special Services</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adults</td>
<td></td>
</tr>
<tr>
<td>Butler Health System</td>
<td>American Cancer Society 800-227-2345</td>
</tr>
<tr>
<td>Butler Health System (55+)</td>
<td>American Heart Association 724-287-1823</td>
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<tr>
<td>Torrance State Hospital</td>
<td>Arthritis Foundation of Pittsburgh 800-522-9900</td>
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<tr>
<td>Veteran's Admin. Medical Center</td>
<td>Blind Association of Butler County 724-287-4059</td>
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<tr>
<td></td>
<td>Butler County Assistance Office 724-284-8844</td>
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<td></td>
<td>Butler County Meals on Wheels 724-282-3008</td>
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<td></td>
<td>Catholic Charities 724-287-4011</td>
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<td></td>
<td>Community Action and Development 724-284-5125</td>
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<td></td>
<td>Crisis Hotline 800-292-3866</td>
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<td></td>
<td>Family First 724-287-4018</td>
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<td>Lifeline Pregnancy Support 724-282-1200</td>
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<td></td>
<td>Lighthouse 724-586-5554</td>
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<td></td>
<td>March of Dimes 800-422-2437</td>
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<td>Red Cross 724-283-2810</td>
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<td></td>
<td>Representative Payees (MHA) 724-287-3380</td>
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<td></td>
<td>Salvation Army of Butler County 724-287-5532</td>
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<td></td>
<td>St. Vincent de Paul 724-287-3994</td>
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<td></td>
<td>Suit Yourself 724-284-9894</td>
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<tr>
<td></td>
<td>Warmline 724-431-2488</td>
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<tr>
<td>Children/Adolescents</td>
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<tr>
<td>Armstrong Memorial Hospital</td>
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<td>Clarion Psychiatric Center</td>
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<tr>
<td>Southwood</td>
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<tr>
<td>Western Psychiatric Institute and Clinic</td>
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<tr>
<td>Recreation</td>
<td></td>
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<tr>
<td>Boy Scouts Moraine Trail Council</td>
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<td>Butler County YMCA</td>
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<td>Community Care Connections</td>
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<td>Dunbar Community Center</td>
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<td>Girl Scouts Western PA</td>
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<td>MHA Voyagers</td>
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<td>Net Outreach</td>
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<tr>
<td>Residential/Adults</td>
<td></td>
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<tr>
<td>Allegheny Valley School</td>
<td></td>
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<td>ARC Butler County</td>
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<td>Butler County YMCA</td>
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<td>HOPE Project (CCR)</td>
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<td>Community Care Connections</td>
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<tr>
<td>DeShon Place</td>
<td></td>
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<tr>
<td>Ellen O'Brien Gaiser Addiction Center</td>
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<tr>
<td>The Care Center (M. H. group home)</td>
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<tr>
<td>Lifesteps, Inc.</td>
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<tr>
<td>Lighthouse</td>
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<tr>
<td>Sunnyview Home</td>
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<tr>
<td>Residential/Children</td>
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<tr>
<td>Butler County Children and Youth</td>
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<td>Community Care Connections</td>
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<tr>
<td>Glade Run Lutheran Services</td>
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<td>Kid’s Count, Inc.</td>
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<td>Mars Home for Youth</td>
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**Substance Abuse Support**

- Al-A-Teen/Al-A-Non 800-628-8920
- Alcoholics Anonymous Hot Line 724-679-5647
- Butler County Drug and Alcohol 724-284-5114
- Butler Regional Recovery Program 724-284-4357
- Counter Measures Program 724-287-8952
- Crisis Hotline (CCR) 800-292-3866
- Ellen O’Brien Gaiser Addiction Center 724-287-8205
- Grace Youth & Family Foundation 724-282-0507
- Heroin Support (parents) 724-284-4016
- Josh and Carrie’s Place 724-822-7951
- Reality Tour 724-679-6612
- Seeds of Hope 724-283-6160

**Transportation**

- Butler Area Rural Transit (BART) 724-282-6060
- Butler Area Transit System (The Bus) 724-283-0445
- Medical Assistance Transport Prog. (AIRRIDE) 800-647-4331

**Vocational Services**

- Butler County Career Link 724-431-4000
- Career Opportunities for the Disabled 724-431-2060
- Career TRACK 724-431-4040
- Office of Vocational Rehabilitation Also 800-442-6379
Appendix C

Special Communication:

The Association Between Income and Life Expectancy in the United States, 2001-2014
Raj Chetty, PhD; Michael Stepner, BA; Sarah Abraham, BA; Shelby Lin, MPhil; Benjamin Scuderi, BA; Nicholas Turner, PhD; Augustin Bergeron, MA; David Cutler, PhD