



BABY UNIVERSITY HEALTH IMPACT

60% of Hamilton County students arrive at Kindergarten **NOT READY** for school (roughly 2,400 children per year)! We know that the capacity to learn begins during pregnancy. In fact, 80-90% of brain development occurs by age 3. Through earlier intervention efforts, greater outcomes can be achieved for parents and babies which last for a lifetime.

Mission: To coach families to effectively prepare children for lifelong success, from healthy pregnancies through early childhood development.

Baby University enrolled its first families in August 2015 and reached maximum caseload capacity of 75 families within 6 months! There are currently 192 families enrolled. Baby U Specialists provide in-home **intensive case management (1 Specialist per 25 families)**. Specialists work with families to complete parenting, health and safety, and self-sufficiency assessments as well as developmental screenings with all children in the home. Specialists also work with parents to develop Family Service Plans around healthy pregnancies and early child development. The following data represents the health impact achieved through enrollment in Baby University, including close coordination of services with its many agency partners.

Intensive Case Management model

- “Most widely researched” model AND “most consistently positive outcomes” Guarino (2011).
- Characteristics include frequent high-quality contact, smaller caseload size, less fragmented care, services provided in client’s environment, community-building, and shared resources allowing for biggest collective impact
- Research compiling 75 studies by Muser et.al. (1998) has shown:
 - Decreased duration of hospitalizations
 - Greater housing stability
 - Reduced mental health symptoms
 - Enhanced quality of life
 - Improved client satisfaction
 - Decreased staff burnout/increased satisfaction while working

Additional Information & Referral

- Baby U has currently provided info & referral to over 215 additional people outside Baby U case management services.



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Baby U Impact	Consequences without Intervention
<p><u>PRENATAL CARE:</u> 100% pregnant moms receive prenatal care <i>(62% of Target Zip Code* moms do not receive prenatal care)</i></p>	<ul style="list-style-type: none"> • A 3rd of brain development occurs in last 5 weeks • 3 x more likely to have low birth weight baby • 5 x more likely to die before age 1 • Greater risk of pre-term births
<p><u>HEALTHY BIRTH WEIGHT:</u> 82 of 90 babies born full term, at healthy birth weights <i>(14% Target Zip Code* babies born low birthweight)</i></p>	<ul style="list-style-type: none"> • Premature and low birth weight babies may have long-term health problems (neurological, intestinal, vision, hearing, dental, pulmonary/asthma problems, heart diseases, obesity, diabetes, high blood pressure, etc.) • More frequent re-hospitalizations <i>(NICU = \$2,000+/day)</i> • 1 in 3 premature babies require special education
<p><u>INFANT MORTALITY</u> (death before age 1):</p> <ul style="list-style-type: none"> • 0 babies have died before their 1st birthday <i>(10% of Target Zip Code* babies died before age 1)</i> • 154 children linked with Pack n' Plays <i>(promotes safe sleep, reduces infant mortality)</i> 	<ul style="list-style-type: none"> • Delayed or lack of prenatal care increases infant mortality risk by 30% • Low birth weight increases infant mortality risk
<p><u>HOUSING:</u> 60 families now in more stable housing</p>	<ul style="list-style-type: none"> • Higher rates of homelessness/need for shelters • Increased risk of unsanitary conditions, overcrowding, disease, and violence
<p><u>EMPLOYMENT:</u> 106 families improved employment</p>	<ul style="list-style-type: none"> • Increased poverty & unemployment
<p><u>TEEN PREGNANCY:</u> 38 Teen Parents enrolled</p> <ul style="list-style-type: none"> • 100% high school seniors graduated on time <i>(of teens in high school at Baby U enrollment)</i> • 0 additional pregnancies before graduation <i>(73 teen births in Hamilton Co. in 2015)</i> 	<ul style="list-style-type: none"> • Greater risk of high school dropout • Higher chance of additional pregnancies before graduation • Increased poverty & unemployment rates
<p><u>DEVELOPMENTAL MILESTONES:</u> 131 children (95%) meeting milestones <i>(ages 2 mo-5 yrs)</i></p>	<ul style="list-style-type: none"> • Without early screening and intervention, children are less prepared for Kindergarten
<p><u>CAR SAFETY:</u> 85 families linked with car seats <i>(Tennessee motor vehicle deaths were the highest cause of external child deaths in 2015)</i></p>	<ul style="list-style-type: none"> • Greater risk of improperly or not restraining children and babies • Increased vehicular death, injury, hospitalizations
<p><u>BREASTFEEDING:</u> Moms are educated, encouraged, and supported around the numerous benefits of breastfeeding. <i>(Breastfeeding increases brain development 20-30%.)</i></p>	<ul style="list-style-type: none"> • Greater risk of infections, morbidity, child obesity, leukemia, and SIDS • Possible risk of various cancer & diabetes (mom)

*Target Zip Codes: 37404, 37407, and 37410. Zip code data from 2012-2015.

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