Overview
In January 2017, HPIO released Connections between Education and Health, the first policy brief in a four-part series (see box below). It describes the two-way relationship between health and education; people with higher educational attainment generally have better health outcomes and healthier children are more likely to have academic success. This third brief illustrates the importance of a child’s early years for both health and future educational attainment.

The first five years of a child’s life are a time of both great opportunity and vulnerability. Early childhood lays the groundwork for physical, emotional, social and intellectual development later in life. The human brain grows more quickly during infancy and early childhood than at any other time. However, adverse environments and experiences during these early years can have a critical impact on development and subsequent functioning of the brain and biological systems, leading to lifelong threats to educational attainment and health.

High-quality early care, education and family support programs, such as home visiting and preschool, can improve school readiness. They can also reduce, eliminate or counteract many harms and stressors for children, especially those children living in poverty or other difficult circumstances. Some programs, such as home visiting, can also simultaneously benefit the child’s parents. Investments in high-quality early care and education are also important to a number of key state policy goals, including kindergarten readiness, third grade reading proficiency, high school graduation rates, healthcare spending, criminal justice spending, workforce participation and earnings.

Despite the benefits of these programs, the proportion of Ohio children who are receiving home visiting services and/or are enrolled in early childhood education is fairly low. For example:
- At most, 4.7 percent of Ohio children under age 6 living below the Federal Poverty Level (FPL) received home visiting services from one of the state programs in state fiscal year (SFY) 2016.
- Overall, only 45 percent of Ohio’s 3 and 4 year-old children were enrolled in any public- or private-funded, formal early learning program in years 2013-2015. Of the 3 and 4 year-old children living at or below 200 FPL, 39 percent were enrolled.

This brief discusses:
- How early childhood experiences influence health
- Evidence-based early learning and family support programs and policies including home visiting, high-quality early childhood education (e.g., child care, preschool, pre-kindergarten) and social-emotional learning
- The extent to which Ohio is implementing these initiatives
- Policy options to enhance early learning in Ohio

Additional HPIO education and health publications and resources
This is the third in a series of four policy briefs describing connections between health and education.
- Policy brief No. 1 presents the relationship between education and health and describes factors impacting this relationship (Released: January 2017)
- Policy brief No. 2 explores the provision of health services in schools (Released: July 2017)
- Policy brief No. 4 describes school-based interventions to prevent drug use and violence and promote mental health (Released: August 2018)
- Additional resources can be found on HPIO’s “Intersections between education and health” online resource page
Development in early childhood

Brain development

Ninety percent of a child’s brain development occurs in the first five years of life, and it is during the early years that basic brain architecture is formed. The young child’s brain grows at a phenomenal rate of approximately one million neural connections every second. However, the brain also actively trims away connections that are not being reinforced during the toddler to early preschool years.

Early brain growth is the foundation for later development. Relationships with nurturing, responsive caregivers in early childhood support healthy brain development. Conversely, if a child experiences traumatic or harmful events during these critical years, the sturdiness of the structure can be compromised, even if a healthy environment is put in place later in life.

Executive function development

Executive function is a part of brain development that involves working memory, mental flexibility and self-control. Executive function skills enable children to focus, remember and apply rules, organize information and control frustration. Foundational to children’s success in school, these skills strengthen reading, writing and mathematics capabilities.

Children with underdeveloped executive functioning are more likely to display aggressive behavior, be unable to stay on task and behave impulsively, which impact academic achievement and social interactions.

Literacy, numeracy and physical development

In early childhood, children:

- Develop the skills and interests that foster language development and literacy. Children who lack adequate pre-literacy foundations may struggle to learn to read.
- Learn counting, number recognition and order and pattern identification. The development of number sense and the application of mathematical reasoning positively impact mathematics achievement in school.
- Grow physically, gaining both the gross and fine motor skills that are important to a child’s success. For example, children who struggle with fine motor skills may have difficulty with the physical processes of writing.

Social-emotional development

Social-emotional development, sometimes called child mental health, includes the child’s experience, expression and management of emotions and the ability to establish positive relationships with others. These skills are key for success in school and throughout life. Healthy social-emotional development can lead to improved:

- Self-confidence
- Communication skills
- Intellectual curiosity
- Self-control
- Ability to empathize and relate to others

Why is early childhood important to health?

Early childhood is a time of extensive development in the brain and many of the body’s biological systems that are critical for health. Learning and development during these early years can have a critical impact on future educational attainment, which is an important determinant of health, as described in HPIO’s Connections between Education and Health brief. There are also other important aspects of early childhood that can influence health, school readiness and future educational attainment, including experiences, relationships and the environment in which a child grows up.

Poverty is often a considerable barrier to healthy development. In 2015, 47 percent of Ohio children ages 0-8 lived in families at or below 200 percent FPL. Where poverty is concentrated, stress levels are likely to be higher, food insecurity more prevalent and academic achievement lower.

School readiness and educational attainment

Healthy development and skill building in early childhood are extremely important to ensure kindergarten readiness and future educational achievement. Children who come into kindergarten unprepared for the rigors of formal schooling are at a disadvantage for future success. Gaps in kindergarten readiness tend to persist through a child’s education. A child’s readiness for kindergarten correlates with third grade reading proficiency, and third grade reading proficiency then correlates with high school graduation. One out of six children who are not reading proficiently by the end of third grade will fail to graduate from high school on time. The effects appear to be worse for people with low incomes. For example, 26 percent of children who have experienced poverty and are not proficient third grade readers do not graduate from high school, compared to 9 percent of poor readers who have not experienced poverty.
Emerging in readiness: Students entered kindergarten needing significant support to be able to engage with kindergarten-level instruction (23%)

Approaching readiness: Students entered kindergarten needing some support to engage with kindergarten-level instruction (37%)

Demonstrating readiness: Students entered kindergarten with sufficient skills, knowledge and abilities to engage with kindergarten-level instruction (40%)

Stress and adverse childhood experiences
Healthy development can be severely affected by stressful experiences and/or excessive or ongoing stress, called trauma or toxic stress, in a child’s early years, creating lasting negative effects on health and achievement. Areas of brain development that tend to be disrupted by toxic stress are those tied to regulation of emotion and social behavior, reasoning capacity, language skills and stress reactivity. Further, too much stress early in life can also impact development of biological systems such as the stress response system and the immune system. These development deficits can lead to a variety of adverse, lifelong effects on learning, behavior and physical and mental health.

Short or long-term stressors, called adverse childhood experiences (ACEs), are stressful or traumatic events such as poverty, abuse, malnutrition, exposure to violence and parental incarceration. Children exposed to ACEs are at an increased risk for developmental delays and serious physical and mental health conditions later in life, including heart disease, cancer and addiction. The likelihood of these negative outcomes increases with exposure to additional ACEs. By age 5, one-third of children living in poverty will have experienced at least two ACEs.

One study examined the effects of ACEs and additional risk factors such as minority status, poverty, living with a single caregiver and certain medical conditions. The study found that 99 percent of children who had experienced seven risk factors had a developmental delay by age 3, compared to only 5 percent of children who had only experienced one or two (see figure 2 on page 4).
Parenting and early relationships
Consistent, responsive and nurturing relationships with adult caregivers are critical to healthy brain development and positive social-emotional development. These relationships are associated with better physical and mental health, fewer behavioral problems, higher educational achievement and a number of other long-term benefits for the child. Such relationships can also buffer against the effects of trauma and negative experiences.

Parents and other caregivers who consistently engage positively with children – verbally and experientially – provide strong platforms for child development. For example, parents’ verbal engagement with their child often outweighs the family’s socio-economic status in predicting the child’s language proficiency. However, the stressors and adversities experienced by many parents and caregivers, especially those living in poverty, can considerably reduce the amount of time and resources available to their children. This lack of engagement can negatively affect executive function, energy and self-regulation capacities of children, as well as parents. Therefore, the most effective child development strategies, such as home visiting, also involve a parental support component.

Other aspects of early childhood that influence health
There are various other experiences in early childhood that can influence health. For example:

- **Access to safe and healthy environments:** Exposure to certain environmental toxins in early childhood, such as lead, can pose a considerable threat to a child’s immature biological systems and thus impact future health, learning and behavior.
- **Nutrition:** Children who are undernourished in the womb and during early childhood can experience negative health impacts and influences on physical development. For example, undernourishment can weaken immunity throughout life.

Figure 2. Chance of developmental delay by age 3 by number of risk factors present, U.S. (2008)


Trauma-informed care and education in Ohio
The sooner that child trauma is recognized and appropriately addressed, the more likely that the ramifications will be reduced. In trauma-informed education, staff members recognize and implement responses to trauma so that children can learn to calm their anxieties and adjust their behaviors.

As understanding of the impact of trauma grows, Ohio is increasing trauma-informed practices in education and other settings. For example:

- The Ohio Departments of Mental Health and Addiction Services and Developmental Disabilities are collaborating on a statewide Trauma-Informed Care Initiative to increase competence in trauma-informed care across various entities and agencies.
- Several thousand educators, first responders, justice system representatives and agency staff from across the state have taken part in trauma-informed training and are applying trauma-informed practices across child-serving entities.
- Ohio’s attention to social-emotional learning and Positive Behavioral Interventions and Supports (PBIS) is providing a strong foundation for trauma-informed educational settings. See page 8 for more information on social-emotional learning and PBIS.
• **Health-promoting behaviors**: Learning and development of important health-promoting behaviors, such as tooth brushing, avoidance of risk-taking behaviors, and healthy eating and physical activity habits, tend to occur in early childhood.

**Evidence-based early learning and family support programs and policies**

In addition to preparing children to succeed in school, high-quality early care, education and home visiting programs can promote health and prevent disease. They can also reduce, eliminate or counteract many harms and stressors for children. These programs have demonstrated benefits among all children, but research shows the strongest benefits among children who are economically disadvantaged. The earlier these interventions are started in a child’s life, the greater the benefit. Finally, these programs not only show individual benefits, but they also have significant societal benefits, such as reduced crime and welfare dependence.\(^{34}\)

A strong body of research has found investments in high-quality early childhood programs to have a higher rate of return on investment than interventions implemented in later years (see figure 3). This is especially true when high-quality early childhood programs are followed by continued high-quality learning experiences.\(^{35}\) However, the vast majority of current investment is aimed at children older than age 5.\(^{36}\)

**Home visiting**

Home visiting programs are an example of a multi-generation strategy; they help children by also helping their parents. Trained providers visit expectant mothers and families with infants and young children, providing one-on-one support for healthy parent and child development, early education and family needs. Participation is typically voluntary.

**Benefits of home visiting**

Home visiting programs that are comprehensive and focused on high-need participants are more likely to have positive results.\(^{37}\) Depending on the model, benefits may include:

- Improved child health, development and/or kindergarten readiness
- Reduced involvement with child protective services
- Enhanced parenting skills
- Improved family economic self-sufficiency

**Figure 3. Returns on investment at different ages**

![Returns on investment at different ages diagram](source: Heckman, James. “Schools, skills and synapses.” *Economic Inquiry* 46, No. 3 (2008): 289-324.)
• Decreased costs to healthcare, education, social services, criminal justice and other public systems38

Evaluations of home visiting programs have demonstrated economic returns of between $1.80 and $9.50 for each $1 invested.39 Three evidence-based home visiting program models are described in the box below.

**Home visiting in Ohio**

Help Me Grow is a program administered by the Ohio Department of Health offering home visiting services in all 88 counties. Services are delivered by local community providers using only evidence-based models.

Help Me Grow mainly serves low-income (at or below 200 percent FPL), pregnant women and low-income, first-time mothers and their young children. Help Me Grow is funded by the state general revenue fund (GRF) and, in some communities, supplemented by local sources such as tax levies or private foundations. Funding from the federal Maternal, Infant, and Early Childhood Home Visiting (MIECHV) home visiting program allows Help Me Grow to reach more families. MIECHV funding can only be used on certain evidence-based models (see box).40

In SFY 2016, Help Me Grow and MIECHV funded a total of 114,617 home visits to 10,586 families. At most, 4.7 percent of children under age 6 living below 100 percent FPL received home visiting services from one of these programs in SFY 2016.41

**Examples of local home visiting initiatives**

SPARK (Supporting Partnerships to Assure Ready Kids) Ohio is a home visiting program focused on kindergarten readiness. It was started by the W.K. Kellogg Foundation and the Sisters of Charity Foundation Canton. Numerous foundations, community organizations and school districts throughout Ohio are now involved, as the program currently operates in 11 counties.42

SPARK children who entered kindergarten in 2016 outperformed their peers on the Kindergarten Readiness Assessment, and SPARK parents were more likely to be engaged in their children’s learning.43 An independent evaluation team found that SPARK children outperform their peers on state assessments, at least through fifth grade.44

Since 1999, Every Child Succeeds has offered home visiting services to families in the Cincinnati area, utilizing funding from both private donors and public entities. As of June 30, 2014, they had served over 14,600 families since the program began, utilizing the Nurse Family Partnership and Healthy Families America models.45 The program was founded by Cincinnati Children’s Hospital Medical Center, Cincinnati-Hamilton County Community Action Agency and the United Way of Greater Cincinnati.

**Early childhood education**

Early childhood care and education encompasses educational and developmental programs for young children, including child

Three evidence-based home visiting program models that are funded and implemented in Ohio through the Help Me Grow program are described below. All three have been found to decrease health disparities.

**The Nurse-Family Partnership** offers home visits by registered nurses for low-income, first-time mothers and their babies. Visits begin during pregnancy and continue until the child turns two. The program aims to improve prenatal, birth and early childhood outcomes. Demonstrated benefits of the model include:

- Improved well-being
- Improved family functioning
- Reduced risky health behaviors
- Reduced child maltreatment46

**Healthy Families America** serves overburdened families at risk for adverse childhood experiences (ACEs). Beginning either prenatally or right after birth, a family support worker provides home visiting services for 3-5 years. Research identified improved parenting as a benefit.47

**Parents as Teachers** is an early childhood parent education and family support program beginning at or before birth. Services continue until kindergarten. Educators teach parents about early childhood development and effective parenting strategies. The program may also involve child developmental screenings and linkages to community resources. Benefits identified in research include:

- Improved cognitive skills
- Increased school readiness
- Improved child development48

*Funded by MIECHV
care, preschool and pre-kindergarten (pre-K). Infants and children of all ages can be served by child care, but preschool and pre-K serve mostly 3 and 4 year-old children. The terms preschool and pre-K are often used interchangeably. These programs tend to focus on ensuring children are prepared for kindergarten with age-appropriate learning in pre-literacy and numeracy, as well as social-emotional development.

Benefits of high-quality early childhood education

High-quality early childhood education has significant benefits for individuals and society. Longitudinal studies of high-quality programs show that, as adults, high-quality program participants have higher earnings, commit fewer crimes, and are more likely to hold a job and to have graduated from high school than adults who did not participate in preschool. Children living in poverty and children whose mothers have lower levels of education experience the most benefit.

High-quality early childhood education programs for disadvantaged children have an economic return on investment of between 7 and 13 percent per year. Savings come from reduced spending on special education, public assistance, crime deterrence and punishment and chronic health conditions. Also, program participants tend to have higher earnings than nonparticipants. Importantly, an intergenerational effect is possible as social mobility becomes more likely with increased income and fewer health and achievement barriers.

However, some studies have found that some benefits related to academic performance lessen over time or “fade out.” It is important for high-quality early childhood education to be followed by high-quality education in later years. Other educational benefits seem to remain more consistently, including reductions in special education placement and grade retentions.

Quality of early childhood education

Not all early childhood education programs are equally effective. Programs must be high-quality to produce these positive outcomes. Enrollment in low-quality programs may do more harm than good.

Experts have identified the following core elements of high-quality early childhood education programs:

- Evidence-based curricula
- Professional development and coaching for teachers
- Organized, positive and engaging classrooms

Cost of early childhood care and education

High-quality early childhood care and education is unaffordable for many families. Costs have increased at double the rate of inflation in the past 20 years. In 2016, the average cost of infant care in Ohio in an accredited child care center was $11,257 per year and $8,985 in a non-accredited center. In 2016, the average annual cost for a 4-year-old child in an accredited center was $9,185 and $7,320 in a non-accredited center (see figure 4). Comparatively, the cost of a year of public college tuition in Ohio was $10,204 in 2016 – below the cost of enrolling an infant in an accredited child care center.

Early childhood education in Ohio

Children are not required to participate in formal education until they reach the age of compulsory education, which is 6 years old in Ohio. Parents may choose to enroll their children in early learning programs, which may operate privately or receive public funding. To receive public dollars from either the Ohio Department of Education (ODE) or the Ohio Department of Job and Family Services (ODJFS), early learning providers must follow specific rules and regulations. (See Step Up To Quality box)
From 2013 to 2015, only 45 percent of Ohio’s 3 and 4 year-old children were enrolled in any public or private-funded, formal early learning program (see figure 5). The proportion of children at or below 200 percent FPL enrolled was 39 percent. Access to quality early childhood education in Ohio varies, with families in urban centers and rural areas limited in their choices. The number of children who can be served in these areas is often far lower than the number of children who are eligible.

Public spending and funding
Due to the proven importance of high-quality early childhood education and its high cost for families, funding is provided for these programs by federal, state and local government (see figure 6). However, funding levels are not currently sufficient to reach all eligible children.

In the National Institute for Early Education Research 2016 State of Preschool Yearbook, Ohio ranked 33rd out of 44 states for its percent of 4 year-olds enrolled in state-funded, public preschool in 2015-2016 (7.8 percent) and 27th in state spending per child ($4,000). However, the report does not include 4 year-olds receiving child care vouchers from ODJFS, and some of these children use vouchers at privately-funded preschools. The District of Columbia serves the highest percentage of 4 year-olds (81.2%) and has the highest spending per child ($16,812). Figure 7 shows Ohio’s public preschool per-child spending for years 2002-2016.

Social-emotional learning
Social-emotional learning builds skills to engage with others, manage emotions, set and achieve positive goals, show empathy, handle stress, establish and maintain positive relationships and make responsible decisions. Effects are typically strongest with young children, especially when interventions in later years reinforce earlier messages. Strong research evidence has found school-based social-emotional instruction to have the following benefits:

Step Up To Quality
Step Up To Quality (SUTQ) is Ohio’s five-star quality rating and improvement system for early care and education programs. It is jointly administered by ODE and ODJFS, and programs funded by both agencies participate. SUTQ provides a consistent definition of quality and recognizes programs that exceed minimum health and safety requirements.

The program and its standards are based on factors which lead to improved outcomes for children, as identified by national research. For example, highly-rated programs require continuing education for teachers and staff, use evidence-based, age-appropriate curricula and make efforts to engage families. Increased staff education requirements are another key component of high-quality rankings, which may be costly for early learning centers to pursue. The current five-star rating system was implemented in October 2013, but SUTQ was initially launched statewide in 2006. As of July 2017, all early childhood education and special education preschool programs funded by ODE must participate in SUTQ and receive a high-quality rating (three, four or five stars) to maintain state funding. In 2020, licensed child care programs receiving funding from ODJFS will also be required to participate, and they will be required to attain a high-quality rating by 2025. As of September 2017, only 27 percent of child care providers that accept ODJFS child care subsidies were rated, and only 19 percent of programs were rated as high-quality.

An independent evaluation of SUTQ was released in February 2017. The study found that participation in a highly-rated program was associated with higher scores on Ohio’s Kindergarten Readiness Assessment, providing evidence that SUTQ is valid and that increasing quality leads to improved outcomes.

Figure 5. Percent of Ohio and U.S. 3 and 4 year-old children enrolled in a formal early education program by income, 2011-2015

<table>
<thead>
<tr>
<th></th>
<th>Ohio</th>
<th>U.S.</th>
</tr>
</thead>
<tbody>
<tr>
<td>All</td>
<td>45%</td>
<td>47%</td>
</tr>
<tr>
<td>Below 200% FPL</td>
<td>39%</td>
<td>40%</td>
</tr>
<tr>
<td>At or above 200% FPL</td>
<td>52%</td>
<td>55%</td>
</tr>
</tbody>
</table>

Note: Percentages for all children are from 2013-2015. Percentages for children below and at or above 200% FPL are from 2011-2015.
Source: Population Reference Bureau analysis of data from the U.S. Census Bureau, pooled 2013-15 one-year American Community Survey, as reported by Kids Count Data Center
Figure 6. Early childhood education funding sources in Ohio (selected programs)

<table>
<thead>
<tr>
<th>Program</th>
<th>Funding source(s)</th>
<th>Cost per child</th>
<th>Eligibility</th>
<th>Hours per week</th>
<th>Children served</th>
</tr>
</thead>
<tbody>
<tr>
<td>State-funded preschool</td>
<td>State (ODE)</td>
<td>$4,000 in SFY 2016</td>
<td>Age 4, at or below 200% FPL</td>
<td>12.5 hours per week</td>
<td>14,765 children served in SFY 2016 (This would have represented an estimated 22.5% of eligible 4 year-old children in 2015)</td>
</tr>
<tr>
<td>State preschool special education*</td>
<td>State (ODE)</td>
<td>$4,000 in SFY 2016 plus differentiated amount based on district state share index and disability category</td>
<td>Ages 3-5 with a disability</td>
<td>10 hours per week minimum</td>
<td>13,556 children served in SFY 2016 (This would have represented 4.9% of all 3 and 4 year-old Ohio children in 2015)</td>
</tr>
<tr>
<td>Head Start**</td>
<td>Primarily federal</td>
<td>$8,168 in FFY (Includes additional services to children and families)</td>
<td>Ages 3-5 at or below 100% FPL</td>
<td>3.5-6 hours per day, 4-5 days per week</td>
<td>30,664 children served in SFY 2016 (including federal and state funding) (This would have represented an estimated 25% of eligible children in 2014)</td>
</tr>
<tr>
<td>Child care subsidies (Publicly Funded Child Care) for children ages 0-4***</td>
<td>Federal and state (ODJFS)</td>
<td>Co-payment varies based on a sliding fee scale</td>
<td>At or below 130% FPL (initial eligibility) - Assistance provided during a qualifying parental event (work or school)</td>
<td>Eligibility hours vary based on the qualifying event</td>
<td>Approximately 76,366 children ages 0-4 served in October 2014 (This would represent 11% of all Ohio children ages 0-4 in 2014)</td>
</tr>
</tbody>
</table>

* Federal and state law require Ohio school districts to offer services to children with certain disabilities, including access to preschool. Federal preschool special education is available to children ages 3-5 including kindergarten.
**Head Start is a federally-funded program operated by local community-based organizations. Established in 1965, Head Start is a comprehensive school readiness program for children, birth to age 5, from low-income families. In addition to early childhood education, Head Start provides health services, parent engagement, parenting education and services for children with disabilities. Data in the table does not include Early Head Start.
***Eligible children up to age 12 can receive publicly-funded child care from ODJFS.

Note: This list is not comprehensive of all funding sources of early childhood education.
Source: Ohio Department of Education Office of Early Learning and School Readiness. “Preschool funding models”

- Increased academic achievement
- Increased high school graduation
- Improved social-emotional skills
- Increased school engagement
- Increased self-confidence
- Improved mental health
- Improved youth behavior

Research has demonstrated the effectiveness of a number of school-based social-emotional learning programs such as the Good Behavior Game, Second Step and Promoting Alternative Thinking Strategies (PATHS).

Social-emotional learning in Ohio
Ohio is one of at least 11 states (including Connecticut, Idaho, Illinois, Kansas, Massachusetts, Maine, Pennsylvania, Vermont, Washington and West Virginia) that has specific goals or standards for social-emotional learning. Standards outline what students should know and be able to do at various stages of development or ages. Ohio’s Early Learning and Development Standards: Birth to
Cuyahoga County, Cleveland, Columbus, Dayton/Montgomery County and Cincinnati have taken steps to increase access to high-quality pre-K and kindergarten readiness. Programs in Cincinnati and Dayton/Montgomery County are especially notable, as they utilize funding from public levies approved by voters in November 2016. Launched in August 2007, Cuyahoga County’s Universal Pre-Kindergarten (UPK) initiative was the first local program in Ohio to expand high-quality pre-K access. UPK provides funding to centers to enhance quality and offers scholarships to low- and moderate-income families. It is funded by a public-private partnership. With a recent decision by the county to allocate $10 million in funding to the program and an additional commitment of nearly $12.9 million in private donations, it is now serving over 4,600 children of ages 3-5.

In March 2014, a public-private partnership launched PRE4CLE in Cleveland (part of Cuyahoga County) to expand high-quality preschool slots and increase the number of high-quality rated providers. PRE4CLE is part of Cleveland’s Plan for Transforming Schools, which aims to reinvent public education in Cleveland. Cleveland providers that choose to participate in PRE4CLE are eligible for funding from UPK. As of December 2016, there were 4,277 children enrolled in high-quality preschools, out of approximately 11,800 children of ages 3-5 in Cleveland, representing 36 percent.

The Early Start Columbus initiative began in 2014. The goals of this initiative are that by 2020, all Columbus children will have access to high-quality pre-k and be prepared when entering kindergarten. Nearly 500 children are served due to investments from the state and the City of Columbus.

Dayton is the first Ohio city to offer every one of its nearly 2,000 4 year-olds access to affordable and quality preschool. In November 2016, voters approved a 0.25 percent income tax increase which will generate $4.3 million annually for expanded preschool access. Passage of this income tax increase will enable full funding for eight years. All families are eligible for tuition assistance, but the amount received depends on household income, family size and their selected program’s quality rating, with higher amounts allocated for the highest-rated providers.

Cincinnati voters approved a five-year property tax levy in November 2016 which will generate $48 million for the Cincinnati Public Schools, including $1.5 million to expand high-quality preschool access for 3 and 4 year-old children living at or below 200 percent FPL. Grants will be awarded to preschool providers working to achieve and maintain high-quality ratings. This funding is expected to increase the number of Cincinnati children in preschool to 6,000. With approximately 9,200 3 and 4 year-old children in Cincinnati, 65 percent of these children are expected to be served by year five of the levy.

Examples of local early childhood education initiatives

Cuyahoga County, Cleveland, Columbus, Dayton/Montgomery County and Cincinnati have taken steps to increase access to high-quality pre-K and kindergarten readiness. Programs in Cincinnati and Dayton/Montgomery County are especially notable, as they utilize funding from public levies approved by voters in November 2016.

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Kindergarten Entry and Ohio’s Learning Standards: Kindergarten Through Grade 3 include social-emotional development. There is no statewide data on how many schools have implemented social-emotional learning programs. However, Ohio schools are required to implement an evidence-based schoolwide system of positive behavioral interventions and support (PBIS). When implemented well, PBIS complements social-emotional learning by encouraging the creation of safe settings and positive climates. See HPIO’s fact sheet on PBIS for more information.

Effective implementation of these strategies can diminish the need for certain disciplinary techniques such as suspensions and expulsions. See HPIO’s fact sheet on suspensions and expulsions for more information on how these disciplinary polices can lead to:

- Academic failure, grade retention and negative attitudes toward school
- Ten times greater likelihood of dropping out of high school
- Higher chance of justice system involvement and incarceration
Policy options to enhance early learning in Ohio

State agencies and policymakers
1. Increase the number of Ohio children served by high-quality child care, preschool, and pre-K by:
   - Expanding eligibility criteria for publicly-funded programs,
   - Increasing state funding for early learning to provide access for more 3 and 4-year-old children and/or
   - Exploring the possibility of more innovative funding mechanisms such as pay-for-success financing (see HPIO’s fact sheet on pay-for-success financing).
2. Increase the number of Ohio children served by evidence-based home visiting programs by:
   - Expanding eligibility criteria and/or
   - Increasing state funding for Help Me Grow to provide services for more children and families
3. Evaluate the impact of home visiting and high-quality early childhood education on spending in other publicly-funded systems, such as child protection, juvenile justice, corrections, law enforcement, K-12 special education and Medicaid
4. Encourage community-based partnerships linking early childhood providers, K-12 schools and physical, mental and behavioral health systems, and other entities serving children.
5. Support ongoing training and technical assistance to encourage integration of social-emotional learning programs into academic instruction using Ohio’s K-3 standards for social and emotional development;
6. Develop professional standards and training for early childhood educators and administrators that emphasize trauma-informed principles.
7. Recognize and incorporate brain development research when developing state academic and accountability requirements for early learning.
8. Create incentives to encourage early childhood care and education programs to participate in SUTQ and achieve high-quality ratings.
9. Work with local communities implementing innovative early learning initiatives to understand how the state can support these efforts and learn from successful strategies.

Early learning providers
10. Develop partnerships with health systems and local mental health providers to increase access to additional behavioral health services in early learning sites.
11. Integrate trauma-informed strategies into early childhood education programs to support children who have experienced trauma.
12. Provide staff with professional development, support and resources to reduce staff stress levels.
13. Engage parents in meaningful ways that build parent connection to their children’s education and to other parents.

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