

What should policy makers know about effective preschool programs?

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Potential Gains from Pre-K Investments

Educational, Social and Economic Success

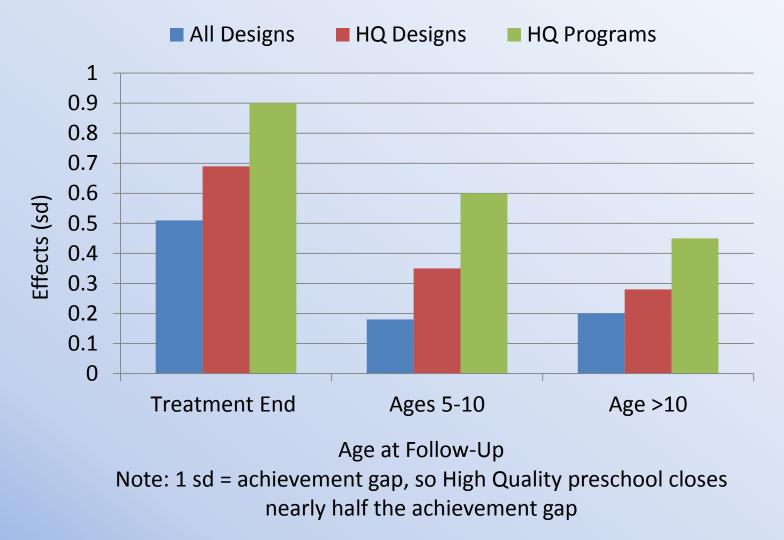
- Achievement test scores
- Special education and grade repetition
- □ High school graduation
- Behavior problems, delinquency, and crime
- Employment, earnings, and welfare dependency
- □ Smoking, drug use, and even health

Decreased Costs to Government

- Schooling costs
- Social services costs
- Crime costs
- Health care costs (teen pregnancy and smoking)



What does all the evidence say? Cognitive gains from ECE in the US (123 studies since 1960)



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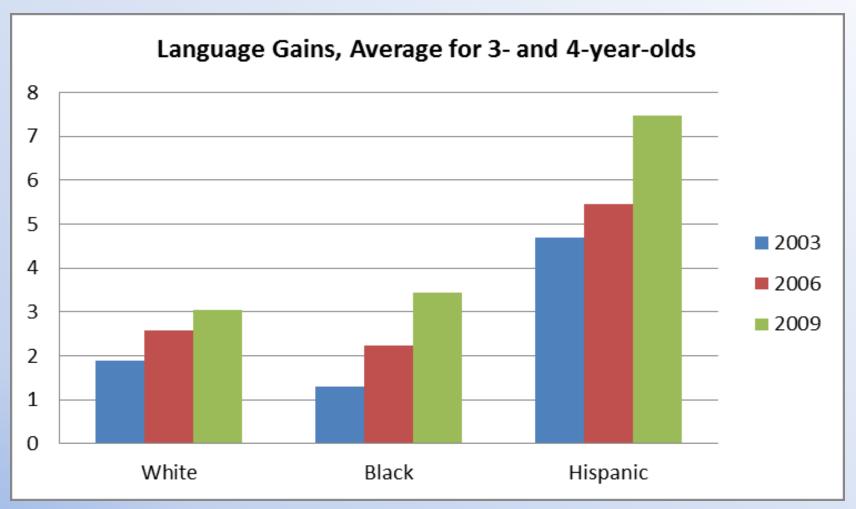


National Head Start Impact Study (NIS)

- One year of Head Start had small positive impacts
- Lasting effects were very small or absent, but:
 Study is for just one year of Head Start
 - Does account for cross-overs in actual treatment
 - Head Start had very small impacts from the start



Head Start Was Improved after the NIS



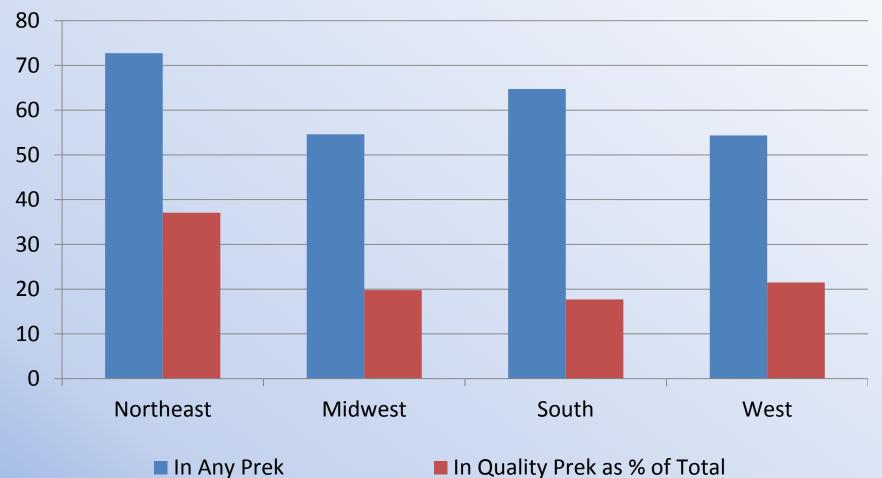


What are the features of programs producing large lasting impacts?

- A focus on intentional teaching that is individualized,
 1:1 and small group
- 2. Well-educated teachers, adequately paid
- 3. Reasonably small classes and ratios
- 4. Strong curriculum well-implemented
- 5. Attention to the whole child (cognitive, social, and emotional) and family engagement
- A continuous improvement system that focuses on teaching and learning

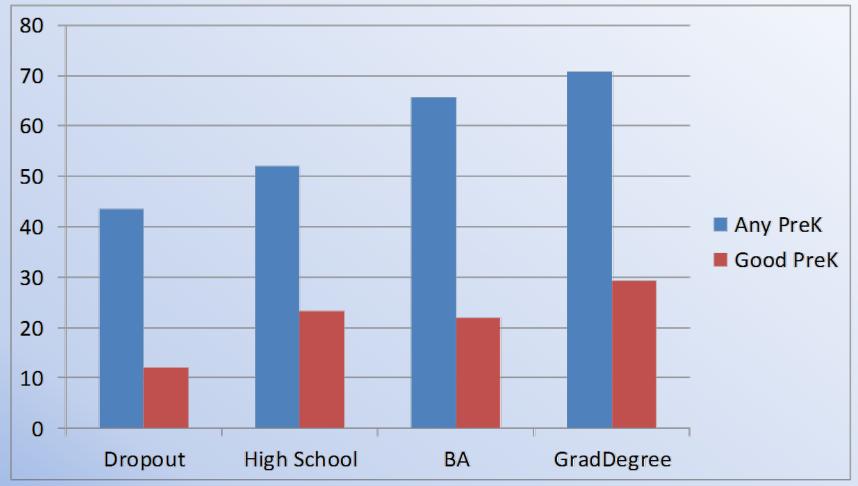


Pre-K quality is too low across the country but is much higher in one region





Good preschool is least available to families with the least education, but no one has much





What do we learn from reviewing all the evidence?

- Preschool has positive effects that diminish(converge) after children enter school but do not disappear
- Only high quality programs have large lasting effects
- Include self-regulation, socialization, & academics to influence life success
- Most private and public programs are not high quality
- Head Start and some state pre-K had weak lasting effects, though Head Start has been improved
- Some states & cities have scaled up high quality
 - Boston, NJ, and NC and AL in the south



Why a BA Degree?

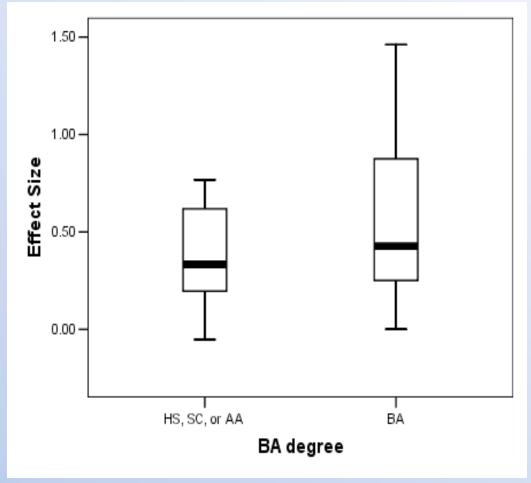
•Two Committees of the NRC (NAS and IOM) recommend BA as entry level qualification based on analyses of *what teachers must know and be able to do* to be highly effective:

- How to integrate up-to-date knowledge on teaching, learning, and child development into practice—including cognitive development, specific content knowledge and skills, and social and emotional development
- How to provide rich conceptual experiences that promote growth in specific content areas and such broad domains as executive function & socialization
- Expected learning trajectories, appropriate content, & how children learn
- How to create and manage effective learning environments
- A repertoire of effective teaching strategies to be used intentionally
- Assessment procedures to inform instruction that are individually and culturally appropriate and how to use data to inform individualized teaching
- How to adapt teaching practices to children who do not speak English, come from different backgrounds, have disabilities and challenging behaviors
- How to identify children who need referral for more intensive services
- How to establish relationships with children and enhance social development
- How to work with parents and other family members
- AND MUCH MORE



Impact of teacher education: little difference in average effects but only BA teachers produce large effects

Kelley, P., Camilli, G. (2007). The impact of teacher education on outcomes in center-based early childhood education programs: A metaanalysis. New Brunswick, NJ:NIEER





How do we increase program effectiveness?



Good Teachers are Essential

- Strong Initial Teacher Pre-service Preparation
 - Provide teachers with competencies to be highly effective
 - Enroll the teachers we already have at low cost to state
 - Higher education requirements for coordination and content

Adequate Pay

- Low pay attracts mostly low skills workers
- Low pay provides no incentive for rigorous education and training
- Low pay leads to low productivity and high turnover
- Pay inequality with public schools produces teacher brain drain

Continuous Improvement

- Self-assessment
- Mentoring and Coaching (guidance and feedback)
- Accountability



NJ Example: High Quality in 31 High Poverty Districts

- High standards for learning, teaching, curriculum
- Fully qualified teachers (BA and ECE certification)
- Maximum of 15 children per classroom
- 6 hour educational day, 180-days per year
- Continuous improvement system w/ SAVS & coaching
- Adequate funding with public school salaries
- Part of systemic reform P-3
- About 50,000 3 and 4 yr. olds in 31 school systems
- Public-private system with 60% private providers
- A 5 to 10 year process (5 years to the BA requirement)



Continuous Improvement Cycle

First set expectations for learning and teaching

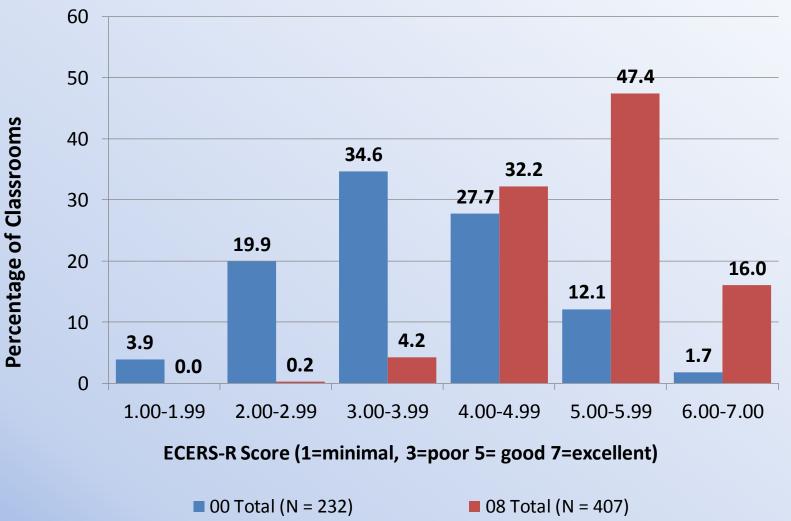
Measure and Assess Progress

Analyze and Plan

Implement – Professional Development and Technical Assistance

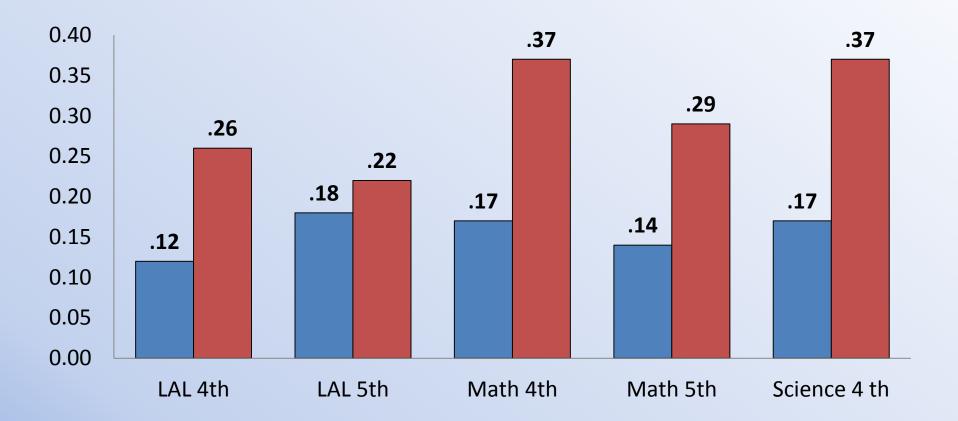


NJ Raised Quality in Public and Private





NJ Effects on Achievement Grades 4 and 5

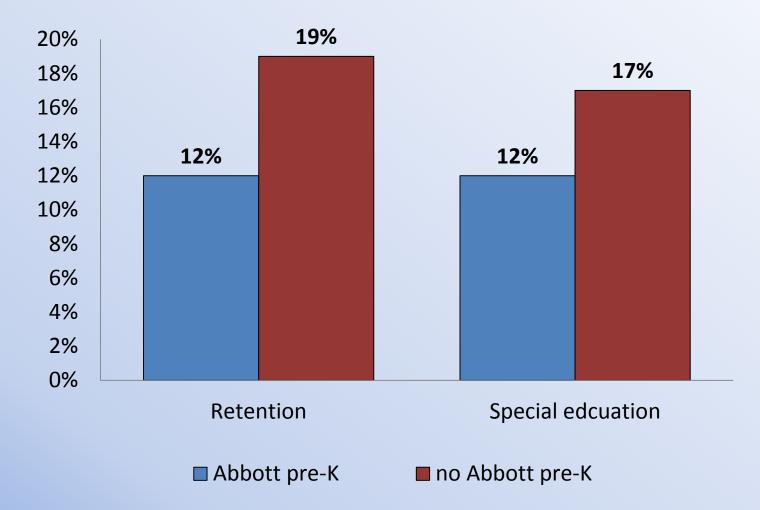


1 year Abbott pre-k

2 year Abbott pre-k



NJ Effects on Retention & Special Education at Grade 5



Where Does Virginia Stand?



he Virginia Preschool Initiative (VPI) has served at-risk 4-year-olds who are not enrolled in existing preschool programs since 1995. The VPI program served 18,021 4-year-olds in the 2013-2014 school year, increasing for the third consecutive year by 4 percent. Eighty-eight percent of the school districts operate VPI classrooms, and the majority of children participate in public school settings. Funding allocations to local school divisions are based on the number of students eligibility are based on locally determined risk factors including, but not limited to: poverty, family unemployment, limited English proficiency, homelessness, parent with limited education, and parent incarceration. VPI programs may provide services on either a part-or school-day schedule throughout the school **year**.

Public school districts and local departments of social services receive VPI funding, but these agencies may subcontract with Head Start programs or private child care centers to provide prekindergarten education services. A local composite index of district resources mandated that communities should contribute matching funds. During the 2013-2014 school year, the state contributed at least half of the \$6,000 per-pupil rate, capping the required local match at one-half the per-pupil amount, regardless of local composite index. More than 35 percent of total costs statewide accounted for local matching funds. Programs operating on a part-day schedule receive half of the full-day funding allocation.

State funding for VPI rose for the second consecutive in 2013-2014 as it increased \$2.5 million. The VPI formula for the 2012-14 biennium was re-benchmarked 2011-2012, resulting in additional funding generated for as many as 24,500 openings each year. Lottery revenues continued to account for all state funding for VPI.

VPI curricula are aligned with Virginia's Foundation Blocks of Early Learning Standards: Comprehensive Standards for Four-Year-Olds, which were expanded in the 2012-2013 school year to include music and the visual arts.

In 2011, the Virginia Preschool Initiative was evaluated for both program quality and child outcomes by the Curry School of Education at the University of Virginia. Program monitoring by state education staff and consultants was conducted through biennial site visits, prior to 2011-2012, to review program facilities, on-site safety procedures, and program record checks. Site visits were eliminated due to budget constraints in 2011-2012. Desk monitoring of local plans and results of child assessments continue as methods to conduct an annual review of program-level outcomes.

In 2014, Virginia was awarded a competitive federal Preschool Development Grant for \$17.5 million.



THE STATE OF PRESCHOOL 2014 - STATE PRESCHOOL YEARBOOK - NATIONAL INSTITUTE FOR EARLY EDUCATION RESEARCH - WWW.NIEER.ORG

VIRGINIA PRESCHOOL INITIATIVE

ACCESS

Total state program enrollment	
School districts that offer state program	
Income requirement	No income requirement
Hours of operation	5 hours/day, 5 days/week ¹
Operating schedule	Academic year
Special education enrollment, ages 3 and 4	
Federally funded Head Start enrollment, ages	3 and 412,526
State-funded Head Start enrollment, ages 3 a	nd 40

STATE PRE-K AND HEAD START ENROLLMENT AS PERCENTAGE OF TOTAL POPULATION



Pre-K
 Head Start
 Special Ed!
 Other/None
 Some Head Start children may also be counted in state pre-K.
 Estimates children in special education not also enrolled in state pre-K or Head Start.

QUALITY STANDARDS CHECKLIST

POLICY	STATE PRE-K REQUIREMENT	BENCHMARK
Early learning standards	Comprehensive	Comprehensive
Teacher degree	BA (public); HSD (nonpublic) ²	BA
Teacher specialized training	Early Primary, Elem Ed, ²	Specializing in pre-K
Assistant teacher degree	HSD or equivalent (public); No minimum degree (nonpublic)	
Teacher in-service		At least 15 hours/year
3-year-olds		20 or lower
3-year-olds		1:10 or better
Screening/referral and support services	Vision, hearing, immunizations ^a	Vision, hearing, health; and at least 1 support service
Meals	No meal required ⁴	At least 1/day
Monitoring	Other monitoring	Site visits



RESOURCES

Total state pre-K spending	\$85,807,267
Local match required?	Yes
State spending per child enrolled	\$3,741
All reported spending per child enrolled*	\$5,893

* Pre-K programs may receive additional funds from federal or local sources that are not included in this figure.

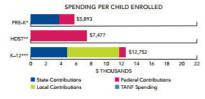
** Head Start perchild spending for the 2013-2014 year includes funding only for 3- and 4-year-olds served. Past years figured have unintentionally included funds for Early Head Start.

*** K-12 expenditures include capital spending as well as current operating expenditures

Data are for the '13-'14 school year, unless otherwise noted.

Localities may choose to offer part-day programs for 3 hours per day or school-day programs for 5.5 hours per day. Most programs operate on a school-day schedule. All programs operate 5 days per week.

5 only per verse. For program state where adds (indu any paylor) for nonpublic sensoreal, locations apport 16 paylors and the state per versions to the paylor sensoreal to be the sensoreal locat. The instructional lased, who must hold a BA and appropriate generalized training, supervises the classions testication and instructional for management and conseque to the program's curriculum and instructional fractions, including on-site presence for a substantial portion of the instructional lime. This policy is one time test NEEP backmark requirement.



³ Support services indude parent involvement activities, health services for children, and referral to social services. Cher comprehensive services, including developmental and denta screenings and referrats, and the annual number of required parent conferences or home visits, are determined locally.

Currently, the state offers the opportunity for all programs to provide meals, but programs are not required to do so. The number of programs providing at least one meal is not known



Quality Standards Checklist

Policy	Benchmark	53 pre-K initiatives, number meeting benchmark
Early learning standards	Comprehensive	53
Teacher degree	BA	31, Not VA
Teacher specialized training	Specializing in pre-K	45
Assistant teacher degree	CDA or equivalent	18, Not VA
Teacher in-service	At least 15 hours/year	43
Maximum class size	20 or lower	45
Staff-child ratio	1:10 or better	46
Screening/referral and support services	Vision, hearing, health; at least 1 support service	35
Meals	At least 1/day	25, Not VA
Monitoring	Site visits at least every five years	33, Not VA





No Program 0.3 Fondimerks 4-6 Benchmarks 7-9 Benchmarks 10 Benchmarks

Washington DC



Takeaway Lessons



- 1. Pre-K gains decline: Expect some convergence or catch up, but recognize that you are paying for it
- 2. Meaningful lasting gains only occur when the pre-K program produces big gains from the start
- 3. Big gains depend on high quality: good teaching with a strong curriculum
- Good teaching system wide also requires:
 Well-educated teachers
 Adequate compensation regardless of setting
 A continuous improvement system