TAPPING THE POWER OF HEALTH PATHWAYS IN EARLY COLLEGE HIGH SCHOOLS







Massachusetts General Hospital May 23, 2023

Massachusetts faces a looming workforce crisis.

- Massachusetts hospitals are 19,000 workers short; vacancy rate for LPNs is 56 percent (MHHA).
- Half of all doctors plan to reduce hours or leave the field altogether, partially due to lack of nurses and staff turnover (MMS).
- The worker shortage is undermining efforts to contain rising medical costs (MHPC).





Less than one-quarter of low-income students in Massachusetts complete college.



Low-income students find it increasingly difficult to continue their studies.



Source: Massachusetts Department of Elementary and Secondary Education

Structural challenges make it even harder to prepare the next generation of health care workers.

- Too few students have early exposure to see if the field suits them and to learn what they must to do prepare.
- The economics of health education make it difficult for public colleges to expand capacity.
- Clinical educator salaries are uncompetitive, and the profession lack the prestige it merits.



Developmental psychology provides a strong theoretical basis for Early College health pathways.

- Identity formation is the key task of adolescence. As high school students consider what they like, what they can do, and where they belong, a distinct *career identity* takes shape.
- Environment has a huge influence on career identity development. Futureorientation is reduced by attending schools with poor reputations, regular exposure to the threat of violence, parents who have struggled with discrimination in society and the workplace.
- Racial and ethnic identity evolves in adolescence. Racial stereotypes present a *social identity threat; critical consciousness,* or deeper knowledge of the processes behind oppression and inequality, empowers teens, giving them belief that they can actively work to create change through their career choice.
- Career development theory suggests success is largely a function of *self-efficacy*. An individual's beliefs about their ability to build and execute a plan is highly predictive of labor market outcomes.

EARLY COLLEGE AS A SCALABLE Solution to the Looming Workforce Crisis

MassINC

I. INTRODUCTION

The pairful labor shortages many sectors of our economy face today foreenhadow firm more grouping challenges in the coming years. Absent aggressive action, projections show the Commonweldh will loss hundreds of thousands of skilled workers before the end of this decade? While Masachusetts has never led a workforce development intervention at the scale now required, there are numerous reasons why Early College car, and should, be the first.

For states, North Carolina and Fousis have demonstrated that the strategy delivers exceptional results as scale. These states pot thousands of students through Early College each year, dramatically increasing their odds d completing potatecondary adgress². Although still relatively small in comparison, Early College rough the states append to be on course to replacitate these gains, students in the first few cohords are two as all level sometime codes are stated and the state of small and comparison. Early College rough the states append to be on course to replacitate these gains, students in the first few cohords are two as all level sometime codes are in the placed and state with the sa second constance we gain.

Equily inportant from a workforce development perspective. Early College can help more graduates build salls that adjagn with the needs of employers. In resent/years, threat has been considered in-minds/h "this largely due is traditicient college readiness, not because students lack interest in STEM fields, where labor supply and demand anerage-adjay unblain-coll 39 engging students at the beginning of their journey. Early College is unquely shade to they then them the lask bits to jobs in an Universities for latistic require.

Equily is a third competing agrowent for making Early Cotlege a princip response to the state's skilled worker shortage. The intervention is clearly benefiting all students, but consistent with results in other states, it is producing outsized posteordary completion gains for low-income students and students of cotor in Masachusets.⁴ Other potential serveus to find more skilled lakor, such as providing taxificentities to startic and relations in others or advocating for a larger number of HB visas, with networks incurintees to startic and relations.

To get the most from Early College across these three dimensions—providing impact at scale, matching employer demand for skilled workers, and ensuring that we achieve equitable outcomes—Massachusetts must continue to erhance its programs.

Our relatively young Early Colleges remain underdeveloped in terms of both the number of college credits that students can earl, and the industry locueed counseling, mentoring, and career development experiences that they revoke. The combination of fever certist and modes career development opportunities means Early Colleges in not king up to its tall potentiat to provide underserved students with a firm boost into the fields where they are less represented.

While this is largely a function of not having sufficient and predictable resources available at the start, it is also important to recognize hesitancy among some education policy leaders, who are understandably uneasy about rushing high school students onto narrow college and career paths.

Early College is a highly structured intervention that is perfectly attuned to career identify development.

7 th and 8 th grades	9 th grade	10 th grade	11 th grade	12 th grade
College and Career Exploration			Career Development	
Outreach and Family Engagement	Comprehensive system of supports for college and career planning and to develop academic skills and behavior needed for success			
	Rigorous high school coursework	Introduction to college-level coursework	Students take up to 60 credits aligned to a college major	

The value proposition of Early College is strong.

- Early college is doubling the likelihood that students enroll and persist in college.
- Early College has momentum to achieve scale.
- Early College will diversify the healthcare workforce.
- By challenging us to seek solutions to the structural issues that lead so many students who aspire to clinical health careers to stop out, Early College can be a disruptive force for the health care industry.



Source: MassINC's analysis of data from the MA Dept. of Elementary & Secondary Education

At scale, Early College could increase the number of graduates entering the health workforce by 25% annually.



Pathway HS Grads Enrollment

MA

Design guidelines for robust Early College health pathways:

- Build health pathways that prepare students for admission to selective clinical programs.
- Select major offerings based on current local labor market conditions.
- Accelerate health pathway selection, but extend entry into a college major as long as possible.
- Provide access to advisors with expertise in health care.
- Provide high-quality career exploration, internships, and mentoring experiences beginning in middle school and continuing through high school.



A Model Health Pathway Design

To-do list for <u>state policymakers</u>:

- Increase the state's per-credit reimbursement for Early College lab sciences.
- Create a consistent and predictable process for selective admissions health programs.
- Work with intermediaries to build a menu of scalable career development opportunities.
- Provide professional development for faculty teaching intro-level college science courses.



To-do list for <u>Early College partnerships</u>:

- Build one piece at a time, but move expeditiously.
- Prioritize extending the health pathway down into earlier grades.
- Work with a knowledgeable workforce development intermediary.



To-do list for <u>business leaders</u>:

- Engage Early College leaders as allies in the effort to build a diverse health care workforce for the future.
- Create a community of practice around internships and other work-based learning experiences for Early College students.



