

Evidence-Based Practices and Predictors in Secondary Transition:What We Know and What We Still Need to Know

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EXECUTIVE SUMMARY

As a U.S. Department of Education, Office of Special Education Program federally-funded technical assistance and dissemination center from 2006-2015, the National Secondary Transition Technical Assistance Center (NSTTAC; #H326J050004 and H326J110001) one of NSTTAC's tasks was to identify the evidence-based practices for the field of secondary transition. To do this, NSTTAC conducted a two part review of literature. In Part I, evidence-based practices based on quality experimental (both group and single subject designs) studies were identified (Test, Fowler, Richter, White, Mazzotti, Walker, Kohler, & Kortering, 2009). However, while these evidence-based practices were designed to teach students specific transition-related skills, to date, the experimental literature has not attempted to measure the impact of these skills on post-school outcomes. As a result, in Part II, the review was expanded to include rigorous correlational research in secondary transition to identify evidence-based predictors that are correlated with improved post-school outcomes in education, employment, and/or independent living (Test, Mazzotti, Mustian, Fowler, Kortering, & Kohler, 2009).

Since 2015, The National Technical Assistance Center on Transition (NTACT), funded by the U.S. Department of Education, Office of Special Education and Rehabilitation Services Administration (#H326E140004), has expanded its literature review efforts for secondary students with disabilities to inform the fields of secondary education and vocational rehabilitation. The resulting lists of evidence-based, research-based, and promising practices will assist State Education Agencies, Local Education Agencies, State VR agencies, and VR service providers to implement these practices to ensure students with disabilities, including those with significant disabilities, graduate prepared for success after high school.

WHAT WE KNOW

Evidence-Based Practices

Initially, Test, Fowler, et al. (2009) identified 32 evidence-based practices in secondary transition. Since then NSTTAC, and now NTACT have annually updated the literature review and expanded it to include journals in the fields of special education, vocational rehabilitation, career and technical education, and school completion. In addition, practices and predictors of post-school success are now classified as having evidence-based, research-based, or promising levels of evidence, in the post-school outcomes areas of Education, Employment, and Independent Living. See Appendix A for a brief, general description of each level of evidence. A more detailed description of each level can be found at:

http://www.transitionta.org/sites/default/files/EP Criteria 2016.pdf. As a result, there are currently 11 evidence-based practices, 47 research-based practices, and 73 promising practices. While Table 1 lists each of the practices, a description of each practice and predictor can be found at

http://transitionta.org/system/files/effectivepractices/EBPP Matrix Links Updated 11-02-16.pdf?file=1&type=node&id=1093.



Table 1. List of Practices by Level of Evidence and Outcome Area

Level of Evidence	Relevant	Practice		
	Outcome Area			
Evidence-based	Education	 Student-focused Planning Practices 		
Practices		 Published curricula to teach student involvement in the IEP 		
		 Student Development (Academic, Employment, and Life Skills) Practices 		
		 Graphic Organizers to teach reading comprehension 		
		 Self-Determined Learning Model of Instruction (SDLMI) to teach goal attainment 		
		 Strategy Instruction to teach math 		
		 Strategy Instruction to teach reading comprehension 		
		 Time Delay to teach science skills 		
	Employment	Student-focused Planning Practices		
		 Published curricula to teach student involvement in the IEP 		
		 Self-Determined Learning Model of Instruction (SDLMI) to teach goal attainment 		
	Independent Living	Student-focused Planning Practices		
		 Published curricula to teach student involvement in the IEP 		
		Student-Development Practices		
		 Constant Time Delay to teach food preparation skills 		
		 Response prompting to teach food preparation and cooking skills 		
		 Response prompting to teach home maintenance skills 		
		 Self-Determined Learning Model of Instruction (SDLMI) to teach goal attainment 		
		Simulations to teach purchasing skills		
		 System of least-to-most prompts to teach functional life skills 		
Research-based	Education	School Completion Practices		
Practices		 Accelerated Middle Schools for staying and progressing in school 		
		 Assign adult advocate for dropout prevention 		
		 Check and Connect for staying and progressing in school 		
		 High School Redirection for school completion 		
		 Provide academic support and enrichment for dropout prevention 		
		Student-focused Planning Practices		



		 Self-Advocacy Strategy to teach student involvement in the IEP meeting
		 Self-Directed IEP to teach student involvement in the IEP meeting
	0	Student Development (Academic, Employment, and Life Skills) Practices*
		 Anchored Instruction to teach math
		 Corrective Reading to teach reading skills
		 Graduated Sequence of Instruction to teach math
		■ Graphic Organizers to teach science
		 Mnemonics to teach math
		 Mnemonics to teach science content
		 Peer Tutoring to teach reading
		 Peer Tutoring to teach science
		 Peer Tutoring to teach social studies content
		 Schema-Based Instruction to teach math
		 Self-Management Instruction to teach math
		 Self-Monitoring to teach reading
		Structured Inquiry to teach science content
		Whose Future Is It? to teach self-determination skills
En	mployment -	Student-Focused Planning Practices
		 Self-Advocacy Strategy to teach student involvement in the IEP meeting
		 Self-Directed IEP to teach student involvement in the IEP meeting
	•	Student Development Practices
		 Response prompting to teach employment skills
		 Self-management instruction to teach specific job skills
		 Simulation to teach social skills
		 Whose Future Is It? to teach self-determination skills
	•	Vocational Rehabilitation Collaborative Practices
		 Counseling and the working alliance between the counselor and the consumer
		 Interagency collaboration
	•	Vocational Rehabilitation Employment Practices
		 Supported employment
	•	Vocational Rehabilitation Professional Training Practices
		 Impact of counselor education and consumer outcomes
	•	Vocational Rehabilitation Service Delivery Practices



		Services to a target group
	Independent Living	Student-Focused Planning Practices
		 Self-Advocacy Strategy to teach student involvement in the IEP meeting
		 Self-Directed IEP to teach student involvement in the IEP meeting
		Student Development Practices
		 Community based instruction to teach purchasing skills
		 Community based instruction to teach safety skills
		 Computer-assisted instruction to teach food preparation and cooking skills
		 Computer-assisted instruction to teach grocery shopping skills
		 Constant time delay to teach functional skills
		 One-more-than strategy to teach purchasing skills
		 Progressive time delay to teach functional life skills
		 Response prompting to teach grocery shopping skills
		 Response prompting to teach laundry tasks
		 Response prompting to teach purchasing skills
		 Response prompting to teach social skills
		 Simulations to teach social skills
		 Simultaneous prompting to teach functional life skills
		 System of least-to-most prompts to teach food preparation and cooking skills
		 System of least-to-most prompts to teach purchasing skills
		 System of least-to-most prompts to teach functional life skills
		 Total task chaining to teach functional life skills
		 Video modeling to teach food preparation skills
		 Video modeling to teach home maintenance skills
		Whose Future Is It? to teach self-determination skills
Promising	Education	o School Completion Practices
Practices		 Career Academies for school completion
		Job Corps for school completion
		 JOBSTART for school completion
		 Social and Behavior Intervention Programs for dropout prevention
		 Talent Search for school completion
		 Twelve Together for staying in school
		Student-Focused Planning Practices



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	 Check and Connect to promote student participation in the IEP meeting
	 Computer-assisted instruction to teach participation in the IEP process
	Whose Future is it? to teach student knowledge of transition planning
	Student Development Practices
	 Computerized Concept Mapping to teach social studies content
	Cover, Copy, Compare to teach math
	 Graphic Organizers to teach math
	 Mnemonics to teach social studies content
	 Morphological Instruction to teach reading
	 Peer-Assisted Instruction to teach math
	 Simultaneous Prompting to teach math
	 Supplemental Materials to teach social studies content
	 Technology to teach reading comprehension
	■ TouchMath © to teach math
Employment	Student-Focused Planning Practices
	 Check and Connect to promote student participation in the IEP meeting
	 Computer-assisted instruction to teach participation in the IEP process
	 Whose Future is it? to teach student knowledge of transition planning
	Student Development Practices
	 Community based instruction to teach employment skills
	 Computer-assisted instruction to teach specific job skills
	 Constant time delay to teach specific job skills
	 Extended career planning services to teach finance skills
	 Mnemonics to teach completing a job application
	 System of least-to-most prompts to teach communication skills
	 System of least-to-most prompts to teach job specific skills
	Vocational Rehabilitation Organizational Practices
	■ Data driven
	Employer relations
	 Excellent Service, Every Consumer, Every Time (E-3)
	"Incubator units"
	 Organizational skills enhancement
	 Rapid response and internal service specialized coordinators, counselors, and caseloads



Shrare point Strong business model Vocational Rehabilitation Service Delivery Practices Acquired Brain Injury (ABI) Program Career exploration services Choose to Work (CTW) Community Rehabilitation Program (CRP) Certification DARSforce Embedded Training Programs (ETP) Essential elements of service delivery Individual Placement and Support (IPS) Maryland Seamless Transition Collaborative (MSTC) Soft skills training Utah Defendant Offender Workforce Development Taskforce (UDOWD) Valforce Work incentive planning and benefits counseling Vocational Rehabilitation Environmental and Cultural Factors Organizational culture Increasing visibility and communication/constituent relations Agency leadership Partnerships Rehabilitation counselor and unit autonomy Resources Return on investment Service integration and business model Staff training and development Support for innovative and promising practices Working alliance and client-centered services Other Vocational Rehabilitation Promising Practices Empowerment and customer self-concept Independent Living Independent Living Computer-assisted instruction to teach participation in the IEP meeting Computer-assisted instruction to teach participation in the IEP process		
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 Support for innovative and promising practices Working alliance and client-centered services Other Vocational Rehabilitation Promising Practices Empowerment and customer self-concept Independent Living Student-Focused Planning Practices Check and Connect to promote student participation in the IEP meeting 		 Service integration and business model
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 Other Vocational Rehabilitation Promising Practices Empowerment and customer self-concept Independent Living Student-Focused Planning Practices Check and Connect to promote student participation in the IEP meeting 		 Support for innovative and promising practices
■ Empowerment and customer self-concept Independent Living ○ Student-Focused Planning Practices ■ Check and Connect to promote student participation in the IEP meeting		 Working alliance and client-centered services
Independent Living Student-Focused Planning Practices Check and Connect to promote student participation in the IEP meeting		Other Vocational Rehabilitation Promising Practices
 Check and Connect to promote student participation in the IEP meeting 		■ Empowerment and customer self-concept
	Independent Living	Student-Focused Planning Practices
 Computer-assisted instruction to teach participation in the IEP process 		 Check and Connect to promote student participation in the IEP meeting
		 Computer-assisted instruction to teach participation in the IEP process



Whose Future is it? to teach student knowledge of transition planning

Student Development Practices

- Backward chaining to teach functional life skills
- Community based instruction to teach banking skills
- Community based instruction to teach communication skills
- Community based instruction to teach community integration skills
- Community based instruction to teach grocery shopping skills
- Constant time delay to teach banking skills
- Constant time delay to teach recreation and leisure skills
- Extended career planning services to teach finance skills
- Forward chaining to teach functional life skills
- One-more-than strategy to teach counting money
- Progressive time delay to teach purchasing skills
- Progressive time delay to teach safety skills
- Response prompting to teach leisure skills
- Self-management to teach social skills
- Self-monitoring to teach functional life skills
- Simulations to teach banking skills
- System of least-to-most prompts to teach communication skills
- System of least-to-most prompts to teach grocery shopping
- System of least-to-most prompts to teach safety skills



Evidence-Based Predictors

Initially, NSTTAC identified 16 evidence-based predictors of post-school employment, education, and independent living success from the correlational research (Test, Mazzotti, et al., 2009). Since then, two additional studies have been published about the predictors. First, Rowe, Alverson, Unruh, Fowler, Kellems, and Test (2013) conducted a Delphi study designed to develop operational definitions and program characteristics for each predictor of post-school success identified by NSTTAC. These can be found in the *Predictor Implementation School/District Self-Assessment* located at:

http://www.transitionta.org/sites/default/files/Predictor Self-Assessment2.0.pdf. Next, Mazzotti et al., (2015) identified four new predictors (i.e., parent expectations, youth autonomy/decision-making, goal setting, travel skills) bringing the total number of predictors to 20. See Table 2 for a list of predictors.

Table 2. List of Predictors by Outcome Area

(Note: X= correlational evidence exists; empty boxes=no correlational research has been found.)

Predictors/Outcomes	Education	Employment	Independent Living
Career Awareness	х	х	
Community Experiences		х	
• Exit Exam Requirements/High School		х	
Goal-Setting	х	Х	
Inclusion in General Education	х	х	X
Interagency Collaboration	x	х	
Occupational Courses	x	х	
Paid Employment/Work Experience	х	х	Х
Parent Expectations	x	Х	X
Parental Involvement		Х	



Program of Study		X	
Self-Advocacy/Self- Determination	х	х	
Self-Care/Independent Living	х	х	Х
Social Skills	х	х	
Student Support	х	х	X
Transition Program	х	х	
Travel Skills		х	
Vocation Education	х	х	
Work Study		х	
Youth Autonomy/Decision- Making	х	х	

WHAT WE STILL NEED TO KNOW

Although these evidence-based, research-based, and promising practices and predictors have been identified based on high quality research, a need for rigorous research to identify additional secondary transition evidence-based practices and predictors of improved post-school success still exists. For example:

- 1. There is a need for high quality group and/or single-subject experimental research that:
 - builds on NTACT's levels of evidence. Currently, only 11 of the 131 practices meet the
 criteria to be evidence-based. High quality research is needed to move the remaining
 practices to the evidence-based practice level, as well as identify practices to teach
 many other transition skills.
 - includes students representing all disability categories and various ethnicities. NTACT
 has reported disability and ethnicity in its findings when available in the studies
 reviewed.
 - collects longitudinal data on the effects of secondary transition practices on in-school and post-school outcomes.
 - investigates the effects of published secondary transition curricula on student in-school and post-school outcomes.



- disaggregates results for students with disabilities if conducted with "all" students.
- 2. There is a need for high-quality multivariate correlational research that:
 - disaggregates data by disability category to identify predictors of post-school success for specific disability groups.
 - provides a more comprehensive understanding of in-school predictors of post-school success for students with disabilities.
 - determines if predictor variables identified by NTACT hold up over multiple points in time.
 - uses Propensity Score Modeling.

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Appendix A. Descriptors of Levels of Evidence

Level of Evidence

Evidence-based Practices

- Based on group experimental, single-case, and correlational research which:
 - o used rigorous research designs
 - o demonstrated a strong record of success for improving outcomes
 - o have undergone a systematic review process
 - o adhered to quality indicators related to specific research design

Research-based Practices

- Based on group experimental, single-case, and correlational research which:
 - o used rigorous research designs
 - o demonstrated a sufficient record of success for improving outcomes
 - o may or may not have undergone a systematic review process
 - o may or may not adhere to quality indicators related to specific research design

Promising Practices

- Based on group experimental, single-case, correlational, or qualitative research:
 - o demonstrate limited success for improving outcomes
 - o may or may not have undergone a systematic review process
 - o may or may not adhere to quality indicators related to specific research design

Unestablished Practices

- Based on anecdotal evidence or professional judgment
- Could include evidence from rigorous research studies which demonstrate negative effects

