

# Implementing Response to Intervention (RtI) and Early Reading: A Review of Literature

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# Abstract

*Background*: Response to Intervention (RtI) in early reading is known as the detailed process that is implemented to enhance the areas of reading in young children.

*Aims*: The reviewers compare various approaches to Response to Intervention (RtI) and identify which frameworks are reported as most effective for young early readers.

*Method*: The topic of Response to Intervention (RtI) in early reading was studied through a comprehensive review of the literature.

*Findings*: Research results all show the overall improvement of student performance in reading as well as overall teacher growth in knowledge, delivery of instruction, confidence, and self-efficacy.

*Conclusion*: Response to Intervention (RtI) in early reading has proven to be a successful and effective approach deserving the necessary attention by school staff and administration to be properly aligned and appropriately implemented.

Keywords: response to intervention, early reading, teacher judgment



# Introduction

Response to Intervention (RtI) is a detailed process that is implemented to enhance the areas of reading within the following pathways: (a) phonological pathway including rhyming, blending, and segmenting; (b) orthographic pathway including segmenting and blending onset and rime in multisyllabic words; and (c) oral language pathway which include a set of comprehension skills that are applied to reading (Munro, 2017, p. 137). RtI in early reading can be administered through a variety of approaches. Some examples of approaches for RtI are the use of a database framework with the implementation of instruction, use of a supplemental online reading program, or even a data-driven coaching model that supports the educator in delivery of RtI. Studies present that teachers can certainly identify the student that requires intervention, but not always make the best judgment in how to intervene. Identifying a student who requires intervention may not always generate positive results. In one particular study, researchers noted that "none of the teachers selected the same intervention for their student that was identified most promising in a brief experimental analysis" (Wagner, Coolong-Chaffin, & Deris, 2017, p. 368). The most novice to the most experienced teachers could be further supported in making the best decisions about interventions for their students. So it leaves to question then, what is the missing link? As educators, where are we going wrong with the intervention process and what can we do to intervene the most effectively?

The purpose of this analysis of peer-reviewed literature is to compare RtI practices and the factors that are crucial in helping to implement the RtI process most effectively. This review is aimed particularly at aiding students who are in the early reading stage of development and require intervention. One finding, in particular, will show how the selected RtI approach not only impacted the performance growth of the student, but also the overall growth of the educator.

Being that some of the terms in this analysis are used in everyday teaching vernacular, a table of terms is provided "making it easy for the reader to scan the definitions" (Galvan & Galvan, 2017, p. 88) to gain the fullest meaning of this analysis. Some of the terms used in the search were related to reading in general but not specific to RtI. The terms in the literature reviewed that specifically linked reading intervention and early reading are provided in Table 1.



Term	Definition and Source(s)
MTSS	The acronym for multi-tiered systems of support (Coyne, Leonard, & Burns, 2016, p. 67).
reading difficulties	"Early reading difficulties can be determined or identified 'causes, such as dyslexia' or limited reading comprehension that hinder the student in reaching or succeeding in current grade level performance" (Munro, 2017, p. 134).
reading	"Instruction targeting the five components of reading such as phonemic
instruction	awareness, phonics, vocabulary, fluency, and reading comprehension" (Tyler, Hughes, Beverley, & Hastings, 2015, pp. 283-284).
response to	"RtI is a detailed process that is implemented to enhance the areas of
intervention (RtI)	reading within the following pathways: (a) phonological pathway including rhyming, blending, and segmenting; (b) orthographic pathway including segmenting and blending onset and rime in multisyllabic words; and (c) oral language pathway which include a set of comprehension skills that are applied to reading (Munro, 2017, p. 137).
supplementary instruction	"Reading instruction indicating an explicit, systematic, and intensive framework that is administered aside from typical in-class core instruction" (Tyler, Hughes, Beverley, & Hastings, 2015, pp. 283-284).
teacher judgment	"The ability to determine students' specific reading levels of performance, identify students who are the most at risk of reading failure, and evaluating reading progress over time and deciding <i>how</i> to intervene" (Wagner, Coolong-Chaffin, & Deris, 2017, p. 350).

# Table 1. Terms and Definitions Related to Response to Intervention (RtI)

# Methodology

Five peer-reviewed articles were identified through thorough searches using the WorldCat database. Searches were narrowed down by the choice of filters during the search. Filters used in the database search were last five years, WorldCat, peer-reviewed, full text, and Texas A&M International University Killam Library. Applying these filters allowed for a practical size of returns in comparison to a large number totaling over the thousands. An additional step taken in the search was the addition of Boolean operators and quotation marks, to narrow down a topic of interest (Galvan & Galvan, 2017, p. 22). Working with a feasible list of returns, less than 150, the lead author then filtered through the articles "starting with the most current journal articles" (p. 33). In the column of relevant sources, the numbers are low because the content of most articles did not align with participants that included young



early readers within primary grades. Though there was an abundance of returned articles from the search terms chosen, very few targeted early childhood. A majority of the articles related to middle school or high school students, whereas the specifical target was early reading ages, Kinder to 2<sup>nd</sup>-grade. A complete audit trail of the search process is documented in Table 2. In Figure 1, a screenshot displays an initial result from the searches and selected filters. (The research was begun in summer 2019 and all search terms were re-evaluated in October one the manuscript was accepted for publication to insure the most current results).

Reviewed		Found	~
		round	Sources
2015	reading intervention	14,825	0
January	"reading intervention"	816	N/A
to	"elementary reading intervention"	2	0
	early reading intervention	6,352	0
October	"early reading intervention"	57	3
	early reading intervention OR RtI	166	0
	"early reading intervention" RtI	8	1
	primary reading intervention AND RtI	103	1
	early reading intervention AND RtI process	44	2
-	2	to "elementary reading intervention" 2019 early reading intervention October "early reading intervention" early reading intervention OR RtI "early reading intervention" RtI "early reading intervention" RtI primary reading intervention AND RtI	to 2019"elementary reading intervention"22019early reading intervention6,352October"early reading intervention"57early reading intervention OR RtI166"early reading intervention" RtI8primary reading intervention AND RtI103

### Table 2. Audit Trail of Database Searches



Figure 1. Screenshot of Search Terms

# Analysis

In Table 3, information regarding the methodologies and findings of all 5 articles that were reviewed can be considered. Column one lists the author, publication year, and the participants for each article. The second column lists the methodologies used during the study. Columns three and four list the related topic definition of RtI and the specified program of a framework of all five articles. In all of the articles, Response to Intervention



and early reading were the primary focus. The studies differed from one another concerning the type of intervention that was utilized. The similarity throughout the 5 articles was participants' use of early childhood students performing in the early reading stages of development. The final column includes the summary of findings for each article. The summary of the results is written in a narrative description to represent the fullest meaning (Galvan & Galvan, 2017, p. 91).

Authors,	Detailed	Response to	Program	Summary of Findings
Publication Year,	Methodology	Intervention	Tiogram	Summary of Findings
and Participants	wiedhodology	(RtI) and		
and I articipants		Early		
		Reading		
Coyne, Leonard,	The participating	"the practices	K-3 Reading	"Though the multi-tiered
& Burns (2016)	school received:	associated	Initiative, in	systems of support (MTSS)
	senteer received.	with	which goals	model, K-3 Reading
Participants:	Professional	multi-tiered	were to	Initiative, did offer
427 students of	development,	systems of	"implement	promising results with
primary age:	Interventionists	support in	and evaluate a	participating schools, it was
67% Hispanic,	support, and	beginning	fully specified	that of the delving into the
16%	Assistance from	reading"	school-wide	details that lead to
African-American,	external coaches	(p. 67).	multi-tiered	complications and
12% White	to implement	(p. 07).	K-3 reading	challenges. For any reading
1270 Winte	multi-tiered		school	framework to "work"
83% receiving	systems of		improvement	participating schools must
reduced lunch	support (MTSS)		model"	meet the challenges with a
33% receiving	practices and		(p. 69).	strong foundation and
ELL services.	systems.		(p. 05).	support of strong teacher
	5,5001115.			leadership, high-quality
				classroom instruction, data
				analysis and interpretation,
				and time prioritization" (p.
				83). In conclusion, it is
				important to keep in mind
				exactly what it is that the
				findings in this study imply.
				Not only was the
				multi-tiered system of
				support used, but rather it
				was the commitment and
				diligent work of staff and
				personnel that made the
				obvious impact. "The

Table 3. Methodologies and Findings Related to RtI and Early Reading



				supports that schools need
				to build systems and
				infrastructure to implement
				and sustain such practices
				are often overseen" (p. 68).
Glover (2017)	Teacher practice,	"a	Data-Driven	"With this approach, which
	Ongoing	multi-tiered	Coaching	is guided by a behavior
Participants:	feedback,	prevention	Model,	consultation framework,
Kinder-3 <sup>rd</sup> grade	Formulized	model	comprised of 3	change is presumed to occur
elementary	data-driven	wherein	main	as a result of the influence
teachers, coaches,	implementation	students'	components:	of coaching actions and
consultants,	framework.	performance	an emphasis on	teachers' perceptions and
interventionists,		relative to	the learning	self-efficacy" (p. 19).
and school		predefined	environment,	In this case in study, the
stakeholders or		benchmarks	enrollment of	findings explain how a
administrators.		is identified	teachers via	data-driven coaching model
		through	modeling,	helps zoom in on the
		systematic	designated	behavior and environment
		screening"	opportunities	of the teacher rather than
		(p. 13).	for feedback,	that of the student, and how
			and the use of a	to build on the teacher's
			formalized	abilities to perform. "The
			data-driven	data-driven instructional
			implementation	coaching model extends the
			framework.	focus beyond behavioral
				change to incorporate
				changes in instructional
				practices and skills" (p. 14).
				The foundation of the
				model, being that of
				coaching support, will serve
				as the catalyst to drive
				future outcomes for both
				teacher and student.
Munro (2017)	Neale	"effective	The Early	"The three pathways were
	Assessment	approaches	Reading	all associated with improved
Participants:	(Analysis of	to reading in	Intervention	reading accuracy and
902	Reading Ability)	need to target	Knowledge	comprehension, with effect
underachieving	pre- and	the specific	program,	sizes of 1.0 in each case
students,	post-intervention	causes for	(ERIK)	indicating a substantial to
1 <sup>st</sup> -4 <sup>th</sup> grade,		individual	comprised of	large improvement" (p.
53 Catholic	3-way	readers"	three	147). The pathways were a
schools,	intervention	(p. 133).	intervention	vital part of the intervention



	1	1		1
metropolitan area, age and gender were not recorded. Tyler, Hughes, Beverley, & Hastings (2015) Participants: 51 children, ages 6-7 years in 2 mainstreamed schools, participants randomly allocated.	pathways. Pretest reading assessments, Eighty 20-minute lessons, 80 stories, period of 8 months.	"effective approaches for teaching reading to typically developing children" (p. 282).	pathways including phonological phonemic, phonic orthographic, and oral language. HeadSprout Early Reading (HER) Program including lessons in diagnostic reading analysis, oral reading fluency, dynamic indicator of basic early literacy internet-based.	process but the role of the student reading profile also played an intricate part. It was the "importance that was taken into account each reading profile" that made an impact on the improvement of student outcomes (p. 147). "Although this was a small study, the results indicate that using HER as a supplementary reading instruction for young beginning readers can have a significant effect on reading skills" (p. 292). The HER program was conducted outside of core classroom instruction. The added intervention supplement of an online reading program added additional hours of reading practice for the student. "The findings contribute to the evidence base indicating the potential benefits of such programs to provide additional support for beginning readers" (p. 292).
Wagner,	Prior and	"critical instructional	Brief	"The findings presented that
Coolong-Chaffin, & Deris (2017)	post-study interviews;	and service	Experimental Analysis	the suggested or identified interventions proposed by
	consistent and	allocation	(BEA), to test	the BEA were more
Participants:	on-going	decisions that	the effects of 4	effective than the teacher
3 elementary	feedback.	impact the	different types	suggested interventions, due
teachers,		students'	of	to limited specificity and at
3 elementary		reading	interventions.	times misjudgments" (p.
students,		performance"	Comparison of	368). In this study, it was
(2 Kindergarten		(p. 349).	teacher	noted that "none of the
and 1 second-			suggested	teachers selected the same
grade student).			intervention	intervention for their student



	versus BE suggestion interventi	n promising in the BEA" (p.
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To distinguish among the studies, a table has been included to identify the strengths, weaknesses, and gaps of each literature review article. This table can be viewed as the *fine-tuning* process of the readings, allowing the opportunity to "make subjective evaluations" (Galvan & Galvan, 2017, p. 58). In formulating the table, the information gathered under each column may present such information that supports "research methods improving on the data-gathering techniques of earlier studies" (strength) or information depicting the methodologies to be "inappropriate" (weakness) (p. 58).

Table 4 is comprised of 3 columns. Column one lists the author and publication year. Column two lists the strengths, weaknesses, or gaps found in the article. The last column lists meaningful quotes from the article. Not all articles will have information under each area. Some articles had strengths and weaknesses, but no gap was identified.

Authors and Publication Year	Strengths, Weaknesses or Gaps	Meaningful Quotes
Coyne, Leonard & Burns (2016)	<ul> <li>Strengths:</li> <li>Literacy leadership such as school literacy leadership teams, a dynamic school literacy plan, and activity timelines documenting progress (p. 83).</li> <li>Consistent support from professional staff, continuous modeling and feedback opportunities (p. 80).</li> <li>Weakness: <ul> <li>"Unaccountability of an experimental study of the impact of the initiative given that this was a pilot study" (p. 83).</li> </ul> </li> </ul>	"Many schools underestimate the systems, structures, and routines that are necessary to ensure that MTSS reading practices are implemented with integrity, quality, and consistency" (Coyne, Leonard, & Burns, 2016, p. 83).

Table 4. Strengths, Weaknesses, Gaps, and Direct Quotes in Literature



	a 1	
Glover (2017)	<ul> <li>Strengths:</li> <li>Use of data-driven coaching model</li> <li>Practiced opportunities with feedback (p. 14).</li> </ul>	"Research on the data-driven instructional coaching model, which can be used to support teachers in managing behaviors and providing instruction in multiple content areas, has documented its impact on teachers' and interventionists' knowledge, self-efficacy, perceptions, and practices pertaining to data-based decision making and the delivery of early reading interventions" (p. 19).
Munro (2017)	<ul> <li>Strengths: <ul> <li>Total of 902 students</li> <li>Divided into two cohorts, between grades 1-4 (p. 136).</li> </ul> </li> <li>Weakness: <ul> <li>Participating schools were Catholic schools as opposed to public education schools.</li> </ul> </li> <li>Gap: <ul> <li>Gender and age were not recorded as variables (p. 136).</li> </ul> </li> </ul>	"The analysis of "what works" in reading intervention allows educators to enhance the effectiveness of their teaching and to optimize student literacy outcomes" (p. 149).
Tyler, Hughes, Beverley, & Hastings (2015)	<ul> <li>Strength:</li> <li>45-minute daily sessions during 8 months, Eighty 20-minute lessons, 80 stories, pre and post-reading assessments (p. 284).</li> <li>Weakness:</li> <li>Gender imbalance between both study groups. "The HER group comprised of 6 females and 9 males, while the control group comprised 3 females and 13 males" (p. 291).</li> </ul>	"It is a crucial aspect of the implementation that the data from benchmark assessments are used in conjunction with the episode data to make instructional decisions" (p. 291).



Wagner,	Strength:	"Initial findings from the
Coolong-Chaffin,	• Teacher interviews held prior and	teacher interviews revealed
& Deris (2017)	post of study, brief experimental	that although teachers report
	analysis (BEA) was used in the study	using data to make decisions,
	(p. 351).	they are unable to describe
		specifically how they do so
	Weakness:	and make decisions based on
	• A small pool of participants of only 3	other information"
	teachers and 3 students, suburban	(p. 368).
	areas (p. 352).	

Figure 2 serves as a visual representation of the findings mentioned in text. The visual was created in a manner to assist the understanding of how each factor then branches out to mini factors. The mini factors each paid contribute in support of the overall goal of implementation.

### **Discussion and Findings**



Figure 2. Factors that Reinforce the RtI Process

One factor that was crucial in reinforcing the RtI approach was the use of a data-driven coaching model (see Figure 2). In one case in the study, a Data-Driven Coaching Model was used as the implementation process for RtI. The coaching model was comprised of 3 main components: emphasis on the learning environment, enrollment of teachers via modeling, designated opportunities for feedback, and the use of a formalized data-driven implementation framework. The focus in this approach was to fully provide the teacher with all of the necessary tools and preparation needed for RtI implementation. Participating teachers were individually teamed with an experienced intervention coach that would serve as a facilitator for the teacher throughout the entire RtI process. Throughout, the teacher was



provided with ample opportunities for modeling and feedback. The teacher was guided during the intervention process as well as with the prior collection and interpretation of data analysis. The intervention coach assisted the teacher in deciphering individual student reading profiles and in making a judgment as to what intervention activity to propose for the student and their individual needs. With this approach, which is guided by a behavior consultation framework, "change is presumed to occur as a result of the influence of coaching actions and teachers' perceptions and self-efficacy" (Glover, 2017, p. 19).

In this case in study, the findings explain how a data-driven coaching model helps zoom in on the behavior and environment of the teacher rather than that of the student, and how to build on the teacher's abilities to perform. After having reviewed this particular case, I found myself relating to it in more ways than one. As educators, do we not deliver instruction to our own students in this similar approach? We provide ample opportunities for modeling and provide feedback to our students during the learning process. We guide our students throughout the instruction and gradually release as we observe student growth and confidence, just as the coaches provided to the participating teachers and interventionists in the study. As teachers, we *fill our students' buckets* with positive praise and reinforcement so that they will gain confidence and success; just as the teachers, in this case, walked away after the study with a gaining of self-efficacy and self-confidence. "The data-driven instructional coaching model extends the focus beyond behavioral change to incorporate changes in instructional practices and skills" (Glover, 2017, p. 14). The foundation of the model of coaching support serves as a catalyst that drives positive outcomes for both the teacher as well as the student.

Another factor noted to be a crucial part in reinforcing intervention was data analysis and the teacher's interpretation of data. In the second case in the study, participating teachers were interviewed as to how they analyzed and interpreted student data in respect to RtI. In the pre- and post-interviews, the use of a brief experimental analysis (BEA) was used as a means of obtaining a variety of reading interventions appropriate for early readers. "Initial findings from the teacher interviews revealed that although teachers report using data to make decisions, they are unable to describe specifically how they do so and make decisions based on other information" (Wagner, Coolong-Chaffin, & Deris, 2017, p. 368). In other words, the participating teachers were exemplifying great knowledge in gathering data but were not making good teacher judgment as to how to use the data. As educators, we do administer an overflow of assessments. They can vary between a phonics pre-assessment at the beginning of the year, a fluency running record throughout, or perhaps a reading benchmark at a midway point in the year. The wealth of data gathered is surreal. Though what then? As educators, do we fully understand how to implement the data into instruction or means of intervention? Or are we simply going through the motion of assessment and data gathering in hopes that we make a solid judgment in respect to intervention? "The findings in this study presented that the suggested or identified interventions proposed by the BEA were more effective than the teacher-suggested interventions, due to limited specificity and at times misjudgments" (p. 368). In this study, it was noted that "none of the teachers selected the same intervention for their student that was identified most promising in the BEA" (p.



368). Having said that, it can be noted that even the most novice and experienced teachers could be further supported in making best decisions about interventions for their students and their individual needs.

A final factor and one in which I feel is the most impactful, is the factor of strong teacher leadership in connection to administrative support. In a final case in study, participating schools implemented a K-3 Reading Initiative, in which goals were to "implement and evaluate a fully specified school-wide multi-tiered K-3 reading school improvement model" (Coyne, Leonard, & Burns, 2016, p. 69). This improvement model was considered to be a complex model all around. The model consisted of various steps and stages of "developing systems, organizational structures, and routines that are aligned, coordinated, and implemented consistently" (p. 70). This particular model required full support from administration and stake holders as foundation for success. If a school does not take the time nor make priority in delving into the details when implementing an MTSS model, it is then that their efforts can be impeded by barriers. Barriers can be factors such as lack of support, lack of resources, or even an overwhelming population of students in need of intervention within a high-priority school. The MTSS reading school improvement model consisted of components that were crucial to the overall implementation. Such components were literacy leadership, high-quality classroom reading instruction, data use to inform instruction and intervention, and small group instruction for all students (p. 83).

As teachers, we know that in the world of education we do not have the luxury of time. Sadly that is the raw truth. From the beginning of an academic year to the end, the year is compacted with time-consuming motivational events, fundraisers, field trips, staff meetings, state testing dates, and numerous other events. The list is never-ending. Though a sad reality is that schools tend to not make time to insert a time frame for thorough planning of Just as there are timeslots embedded into a campus academic schedule for intervention. other areas of topic and concern, there should also be a designated time for RtI planning and implementation. The school as a whole must prioritize the time to reflect on a current campus or district RtI plan and delve into the details on how to appropriately and consistently implement, and with fidelity. We feel it is important to keep in mind exactly what it is that the findings in this study imply. Not only was the multi-tiered system of support implemented and deemed effective, but more so, it was the administrative support and diligent work ethic of the staff and that made the obvious impact. "The supports that schools need to build systems and infrastructure to implement and sustain such practices are often overseen" (Coyne, Leonard, & Burns, 2016, p. 68). "Many schools underestimate the systems, structures, and routines that are necessary to ensure that MTSS reading practices are implemented with integrity, quality, and consistency" (p. 83).

# Implications

Response to Intervention is a process that is connected to underlying factors that serve as a strong foundation for the implementation. Having said that, an interest that was the drive throughout the literature review was that of determining what those specific factors were. Some areas of interest where factors were thought to be discovered were in areas such as best



practices or highly recommended RtI programs within districts. Though, at completion it was clear that the factors did not reside within those boundaries at all. Throughout the literature review it was understood that the patterned factor that brought RtI implementation to such success was that of administrative support. Administrative support provided to the RtI process can literally be viewed as the backbone to RtI success, or any implementation at that. Support can be described through a variety of scenarios. One for instance is that it is key for administration to embrace RtI and its importance and relevance to the student body at need. In addition to, it is important for stake holders such as administration, key teachers, and RtI coordinators to honor support and belief of the process itself. Believing that the process is being implemented for the best interest of the students who will be participating in the intervention.

Another scenario that mirrors a support system can be the example of a campus master schedule already embedded with a specific RtI block designating time and focus for this process. Providing a set time in the master schedule can deter from future road blocks such as scheduling of groups. Support can also consist of providing on-going staff development for faculty and RtI staff as they can acquire new data and current legalities that relate to RtI. While the RtI process is being implemented and administered, staff can then utilize that knowledge of information in terms of making any adjustments as needed along the way. As noted the factor all along was not at all in the making of any new discoveries in the world of education. Rather, it was a tool that many districts already do have right at arms-length. Administrative support can absolutely be viewed as the driving force behind any learning process that is set in place for children. This works. "The analysis of what works in reading intervention allows educators to enhance the effectiveness of their teaching and to optimize student literacy outcomes" (Munro, 2017, p. 149). Through this support, not only will staff fulfill their duties, but furthermore they will fulfill them with the appropriate knowledge, confidence, and self-efficacy.

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