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Introducing Preservice Teachers to Family-Centered Practices: A Scoping Review

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Abstract

Parental involvement in P-12 education could lead to social and academic success for students; however, parents often experience barriers to their involvement. Different or additional barriers exist for parents of children with a disability. School staff can positively influence parents to become involved in their children's education. Family-centered practices, common in early intervention under special education law (Part C of IDEIA), may foster parent involvement in P-12 schools. In this scoping literature review, we examined 17 studies of teacher preparation programs (TPPs) in higher education in the US who have implemented programs to prepare preservice teachers (PSTs) to collaborate with parents/families. Studies varied by analytic method, participants, purposes, format, and measures. We present a synthesis of the included articles and discuss recommendations for teacher preparation programs.

Keywords: family-centered practices, preservice teacher preparation, parent involvement

1. Introduction

1.1 Parental Involvement

Parental involvement in PreK-12 education can lead to social and academic success for both elementary and secondary students (Jeynes, 2017; Thelamour & Jacobs, 2014). Parental involvement has been defined as "the resources that parents invest in a child's learning experience" (Calzada et al., 2015, p. 872). Examples may include attending parent-teacher conferences or helping during school events. For the purpose of this review, parent-involvement is defined as activities parents engage in as part of their children's education, either by their own initiation or at the request of school personnel. Throughout this review we will discuss parents and families of children with and without disabilities, as all parents and families stand to benefit from well-trained educators.

The Individuals with Disabilities Education Improvement Act (IDEIA, 2004) requires that parents of children with disabilities be included in the educational decision-making process. Schools meet the requirements of IDEIA by obtaining parental consent for evaluation and programmatic changes, informing parents of progress toward individualized education program (IEP) goals at least as often as typically developing students receive report cards, and inviting parents to attend and participate in IEP meetings. Therefore, while all parents are invited to family nights, back-to-school activities, and parent-teacher conferences, and are typically encouraged to play a role in students' homework completion, parents of children with disabilities have more formal opportunities for educational decision making (IDEIA, 2004).

1.2 Barriers to Parental Involvement

Parents often report they experience barriers to becoming involved in their children's education. Barriers include practical issues like economic needs (e.g., lack of adequate transportation or childcare; Pemberton & Miller, 2015) and scheduling difficulties (Cavendish & Connor, 2018). However, parents also perceive barriers such as parents' distrust of schools (Pemberton & Miller, 2015), schools' treatment of race (Lechuga-Peña & Brisson, 2018; Parsons et al., 2018) and language differences (Cavendish & Connor, 2018). Cavendish and Connor interviewed a parent whose native language was not English and who reported that "because of my limitations in terms of language they don't take me into account" (p. 38). Allen and White-Smith (2018) found that racial barriers can also hinder parental involvement when parents feel ignored by office staff, teachers, and parent networks because of their race. Parents who feel ignored may

not feel motivated to become involved in their children's education. In their study, Allen and White-Smith found that when parents of color volunteered to help in the classroom or asked if they could observe, teachers appeared to be intimidated by their presence.

Parental involvement can take on different dimensions and pose different barriers when the parent has a child with a disability. Parents of children with disabilities may perceive societal judgment and feel as though they are being outcast (Valle, 2018). Additionally, the decision-making processes in PreK-12 education can be daunting for parents of children with disabilities. Parents need to advocate for the services their children need but may feel that asking for too much or too often will make them "pushy parents" (Beauvais, 2017; Bibby et al., 2017). Haley, Allsopp, and Hoppey (2018) found that even when a parent was a teacher at their child's school, there were barriers to their inclusion as full team members in their child's educational decision-making team. This parent cited a "learning curve to special education" (p. 26) along with loyalty and job security issues if she complained or did not do what the school thought was right. Curle et al. (2017) interviewed 12 parents of children who were deaf/hard of hearing after their transition to kindergarten. In this study, some parents "voiced a reluctance to disagree with the school team, fearing damage of the relationship between themselves or their child and the teacher" (p. 59).

School staff often recognize the need for parental involvement, but they may not understand the barriers that parents face or may not see the barriers as legitimate reasons for what they perceive to be low parent involvement. Pemberton and Miller (2015) found that "teachers acknowledged the difficulties associated with a worsening economy, but they did not view such challenges as insurmountable obstacles for parents" (p. 750). Helping teachers understand the challenges of family life may help teachers understand and partner with families.

1.3 The Benefit of School-Family Partnerships

School staff can positively influence parents to become involved in their children's education. Curry, Gaëtane, and Adams (2016) surveyed a total of 680 parents from among 56 elementary schools and found that school outreach efforts (e.g., invitations from the school), and parents' social networks (i.e., the number of other parents that participants listed as frequent contacts) accounted for 10% of variance in parents' motivation to become involved at school. This was based on parents' self-reported motivation to become involved and did not measure actual involvement. Jeynes (2007) found that school outreach programs (e.g., invitation sent home with child) had an effect size of 0.29 on parents' self-reported motivation to become involved, indicating that whether involvement is suggested by the school or initiated by parents, there is a positive impact. Similarly, Li and Fischer (2017) found that parent involvement seems to have an iterative effect, leading to networks among parents, which, in turn, foster more parental involvement and school success.

The National Parent-Teacher Association (NPTA; www.pta.org, n.d.) published standards for fostering family-school partnerships. These standards are (a) welcoming all families into the school, (b) communicating effectively, (c) supporting student success, (d) speaking up for every child, (e) sharing power, and (f) collaborating with community. According to the NPTA report, State Laws on Family Engagement in Education (Belway et al., 2010), 40 states have passed legislation requiring professional development to foster family engagement.

1.4 Family-Centered Practices to Foster School-Family Partnerships

Early intervention for children birth through 2 (i.e., Part C of IDEIA) has included family-centered services since its inception in 1986. Parents are consulted regarding service delivery decisions, and services are delivered around parent schedules. What is more remarkable is that in early intervention, service providers are expected to treat parents as equal partners with expertise in their children's specific needs and abilities (Division for Early Childhood, DEC, 2014). The DEC has published recommendations for early intervention and early childhood practitioners (2014). Among recommendations for family-centered practices are "build trusting and respectful partnerships with the family through interactions that are sensitive and responsive to cultural, linguistic, and socioeconomic diversity; provide the family with up-to-date, comprehensive, and unbiased information in a way that the family can understand; [be] responsive to family concerns, priorities, and changing life circumstances" (p. 10). In the transition from Part C to Part B, parents are consulted less, and the school takes on the role of expert educator (DEC, 2014; Dunst, 2002).

Parental involvement and family-centered practices are not interchangeable terms. Family-centered practices are a set of beliefs and strategies that are guided by the belief that parents are equal partners in educating children, and yet unknown is the extent to which teachers in public schools have adopted a family-centered approach (Dunst, 2002). Teachers with a family-centered approach would share assessment data freely and consult parents regularly with progress updates and to make decisions on future programming (Bruder, 2010). The assumption is that using family-centered practices will lead to increased parental involvement and that teachers who have been trained in family-centered practices will better establish family-school partnerships and include parents in children's education. However, family-centered practices may not be the norm in public PreK-12 schools (Allen & White-Smith, 2018; Cavendish & Connor, 2018; Haley et al.,

2018; Lechuga-Peña & Brisson, 2018; Pemberton & Miller, 2015; Valle, 2018).

While the use of family-centered practices may not be the norm within public school settings (Dunst, 2002), groups of people collaborate more effectively when they see each other as equals and find intergroup similarities. Cavendish and Connor (2018) described parent and family realities as "starkly different from those of the school personnel with whom they interact" (p. 81). If school staff seek to positively impact parent-involvement, they may need help understanding the realities that families face. Introducing teachers to family-centered practices early in their career may help them consider family perspectives.

Recently revised standards for elementary teacher preparation programs include statements such as "Candidates work collaboratively with families to gain a holistic perspective on children's strengths and needs and how to motivate their learning" (Council for the Accreditation of Educator Preparation [CAEP], 2018) and "Candidates work respectfully and reciprocally with families to gain insight into each child" (p. 7). Teacher preparation programs provide foundational educational experiences for preservice teachers. These experiences often simulate the work that preservice teachers (PSTs) will perform as teachers. The theory underlying this practice is that PSTs will perform better in their careers if they are provided opportunities to practice within their teacher preparation program (Holdaway & Owens, 2015; Stoddard et al., 2011). Given that parent involvement is important for student and family outcomes and that partnering with families and using family-centered practices could promote parent involvement, the purpose of this literature review is to examine practices for preparing PSTs to collaborate with families. Because family-centered practices are beneficial for all families, we included studies that targeted PSTs preparing for all K-12 settings.

The following questions guided our review of the literature:

- 1. What strategies are teacher preparation programs (TPPs) employing to introduce preservice teachers (PSTs) to family-centered practices?
- 2. How do TPPs' efforts impact PSTs' knowledge, practices, and attitudes toward and efficacy in implementing family-centered practices?

2. Method

2.1 Literature Search

The purpose of this study was to identify and review existing research on the strategies for preparing teachers to implement family-centered practices in PreK-12 settings. Studies were identified by searching electronic databases including Academic Search Premier (1975-Present) and Psycinfo (1877-Present). The last search occurred on January 29, 2020.

We used the following search terms to search the databases: family-centered, teacher, education, family, preparation programs, preservice teachers, and parent. Studies were screened for inclusion by the first author based on a review of titles that mentioned teacher preparation programs, preservice teachers, and family-centered practices or family-focus. Titles and abstracts that on first review met inclusion criteria were set aside for further review.

After a thorough search for articles that seemed to fit our criteria, we eliminated articles that did not fit all inclusion criteria: (a) peer-reviewed article; (b) written in English; (c) involved preservice K-12 teachers; (d) published between 2007 and 2018; (e) include an empirical study; and (f) sought to improve the attitudes, knowledge, and/or skills for working with parents/families of future students. We conducted an abstract review, removing duplicate articles and those that did not meet all inclusion criteria. We then conducted forward and backward ancestral searches using the remaining articles and reviewed the abstracts for items found in these searches. Finally, we conducted a full-text review to ensure that the remaining studies met our criteria.

2.2 Creation of Data Extraction Protocol

To standardize data extraction, we developed a data collection form, pilot tested it with two randomly selected remaining articles, and made changes based on these results. The first and fourth authors extracted the data using the data collection form and compared their findings. Disagreements were resolved through discussion and clarifying any misleading instructions in the data collection form. The following data items were sought in each article: (a) methodology, (b) study purpose, (c) description of participants, (d) description of intervention, (e) measures of outcomes, and (f) key findings.

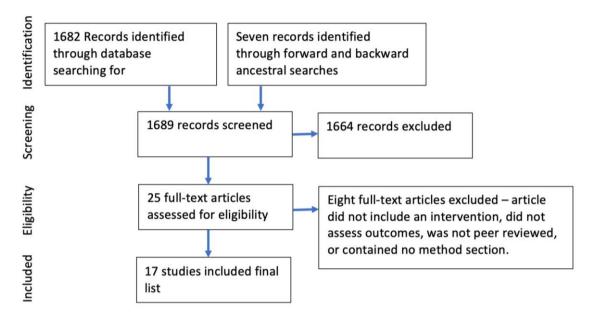


Figure 1. Flow Diagram of Study Selection

2.3 Data Extraction

With the data extraction protocol created, the first and fourth authors separately extracted the data from the included articles. They met to compare their protocols and reached agreement on what was to be included in the final data table. Some disagreements occurred in (a) participant information, typically regarding math errors and pulling accurate numbers from the article; and (b) description of the intervention, where it was difficult to find specific information in the article. To resolve these, we referred back to the articles together and found the relevant information.

3. Results

3.1 Study Selection

The search in Academic Search Premier and Psycinfo yielded a total of 1,682 citations. An ancestral search yielded seven additional studies (three from a backward search and four from a forward search). Two team members reviewed the abstracts and removed studies when it became clear they did not meet the inclusion criteria. The full texts of the remaining 25 studies were reviewed independently by the two authors and eight were removed because they did not meet inclusion criteria, for a total of 17 articles in the final list of included studies (see Figure 1 for further information regarding the search procedures).

3.2 Methodology Within Reviewed Studies

We identified 17 articles in this review. Table 1 contains information about methodology, study purpose and focus, and demographic information about participants. Table 2 contains descriptions of interventions and key findings. Each table is organized beginning with qualitative studies and followed by quantitative and multiple methods studies.

3.2.1 Study Characteristics

Of the 17 included articles, eight featured qualitative analysis only (Able et al., 2014; Amaro-Jimenez, 2016; Amatea et al., 2013; Bofferding, Hoffman, & Kastberg, 2016; Bottoms, Ciechanowski, Jones, de la Hoz, & Fonseca, 2017; McHatton et al., 2013; Murray et al., 2008; Waddell, 2013; Zeichner, Bowman, Guillen, & Napolitan, 2016); four featured quantitative analysis only (Accardo & Xin, 2017; Bingham & Abernathy, 2007; Brown et al., 2014; Jacobbe et al., 2012), and three featured a combination of quantitative and qualitative methods or described their study as mixed methods (Bergman, 2013; McCullough & Ramirez, 2012; Ramirez et al., 2016).

3.2.2 Participants

The studies included a total of 3,445 participants. The participants were all preservice teacher candidates in either undergraduate or graduate programs leading to a teaching license. Program majors included elementary education, math education, bilingual education, secondary education, special education, early childhood education, dual special and elementary education, and health education. Some studies did not report on majors (Able et al., 2014; Amaro-Jimenez, 2016; Amatea et al., 2013; Bofferding et al., 2016; Brown et al., 2014; Jacobbe et al., 2012; Murray et al., 2008). The majority of participants in all studies reporting on gender were female and Caucasian, but studies also included African American PSTs (Able et al., 2014; Accardo & Xin, 2017; Amatea et al., 2013; Collier et al., 2015; Jacobbe et al., 2012;

Waddell, 2013), Latino PSTs (Able et al., 2014; Accardo & Xin, 2017; Bottoms et al., 2017; Ramirez et al., 2016), Asian-American PSTs (Able et al., 2014; Amatea et al., 2013; Bottoms et al., 2017; Brown et al., 2014; Jacobbe et al., 2012); Pacific Islander PSTs (Amatea et al., 2013; Bottoms et al., 2017), biracial PSTs (Amatea et al., 2013), and those selecting "other" in this category (Brown et al., 2014; Collier et al., 2015). A detailed listing of participants is found in Table 1.

3.2.3 Study Purpose

The included studies featured purposes of determining the impact of different activities on PSTs. The studies implemented interventions with goals of preparing PSTs to work with parents. Most studies used the term *parent involvement* and sought to help PSTs understand parents. While these do not make up the entire philosophy of family-centered practices, they are a portion of them. Eleven studies sought to determine the influence of specific interventions on PSTs' dispositions toward working with families (Able et al., 2014; Amatea et al., 2013; Bergman, 2013; Bingham & Abernathy, 2007; Bofferding et al., 2016; Bottoms et al., 2017; Brown et al., 2014; Collier et al., 2015; Jacobbe et al., 2012; McHatton et al., 2013; Waddell, 2013). In addition to perspectives, studies also sought to report on experiences (Waddell, 2013), changes in approaches to working with parents (Amatea et al., 2013), and changes in knowledge of "six types of parent involvement" (Brown et al., 2014, p. 141).

Four studies stated goals of examining PST resulting preparedness or ability to work with parents and families: (a) impact on parent-teacher conference facilitation, professional communication, and instructional decisions (Accardo & Xin, 2017); (b) PST ability to engage families in a culturally responsive way (McCollough & Ramirez, 2012); (c) impact on PST preparedness with respect to parent/professional partnerships (Murray et al., 2008); and (d) impact on learning and ability to implement community teaching (Zeichner et al., 2016). These studies examined changes in PST attitudes and beliefs. Amaro-Jimenez (2016) sought to understand PSTs' self-reported confidence and subsequent plans for home-school connections and Ramirez et al. (2016) focused on changes in perceptions toward Latino parents.

Table 1. Study Features

Study	Methodology	Study Purpose & Focus	Participants
Qualitative Methods			
Able et al., 2014	Qualitative, focus group data	Determine influence on "dispositions toward working with families with diverse backgrounds and their skills in collaborating with families" (p. 11). Focus on PST knowledge gains regarding implications of differences among families	N= 68 Gender: F=59, M=9 Ethnicity: 57 Caucasian, seven African American, two Latina, two Asian Age: 20-22 (n=29), 23-25 (n=13), and 28-30 (n=2).
Amaro-Jimenez, 2016	Qualitative, student projects, reflections, assignments	Identify perceived gains and subsequent plans for home-school connections Focus on self-reported confidence	N=104, Demographic information not reported
Bofferding et al., 2016	Qualitative, case study and surveys	Examine changes in PST perceptions and attitudes about collaborating with parents Focus on PST attitudes about working with parents and beliefs/perceptions about parents	N=43 Gender: F=41, M=2 Year: Final semester of UG program
Bottoms et al., 2017	Repeated measures, qualitative, reflection papers	Determine changes in PSTs' perceptions about working with linguistically diverse children and families Focus on attitudes toward society and families	N=53 (fall term n=25, spring term n=29, one fall student repeated in spring) Gender: F=92%, M=8% Ethnicity: 47 Caucasian, four Latino/a, two Asian-American, one Pacific Islander Year/Major: Jr. or Sr. standing/Elementary Education
McHatton et al., 2013	Qualitative, reflective writing	Determine change in PST perceptions toward diverse families of children with disabilities Focus on attitudes toward working with families	N=316 Major: Elementary and Secondary Education
Murray et al., 2008	Repeated measures, qualitative, focus groups	Explore impact on PST preparedness with respect to parent/professional partnerships Focus on attitudes toward families and working with families	N=9 Gender: F=6, M=3 Year: Jr. or Sr. standing
Waddell, 2013	Qualitative, course assignments & reflections	Report on experiences and perspectives of PSTs Focus on attitude toward working with families	N=24 Gender: F=20, M=4 Ethnicity: 14 Caucasian, 10 African American Year/Major: Sr. Year/Elementary education
Zeichner et al.,	Qualitative, focus groups,	Evaluate program impact on PST learning	<i>N</i> =129

2016	interviews, observations, document reviews, and surveys	and ability to implement community teaching Focus on attitudes toward working with families	All participants were surveyed during and at the end of their program Interviews (<i>n</i> =12), Focus groups (<i>n</i> =16), First year teaching interviews (<i>n</i> =7) Year/Major: Graduate/65 Elementary, 64 Secondary
Quantitative/Mixed M Accardo & Xin, 2017	<u>Methods</u> Quasi-experimental quantitative, treatment + control postintervention surveys	Investigate impact on parent-teacher conference facilitation, professional communication, and instructional decisions Focus on PST attitudes and beliefs toward working with families	N=62 (TG=38; CG=24) Gender: F=53%, M=47% Ethnicity: 59 Caucasian, 1 African American, 2 Hispanic Year/Major: Jr. Standing/TG-5 Elementary Majors, 33 Secondary Majors; CG=24 Secondary Majors
Amatea et al., 2013	Repeated measures quantitative questionnaire Qualitative, problem-solving task	Investigate changes in attitudes and approaches toward working with families Focus on PST attitudes toward working with families	N=138 Ethnicity: 105 Caucasian, 10 African American, 12 Latino, eight Asian/Pacific Islander, one biracial
Bergman, 2013	Repeated measures mixed-methods survey	Explore changes in perceptions of family engagement Focus on PST knowledge of practices for inviting parent involvement	N=100, Suburban (n=60), Urban (n=40) Gender: Suburban F=48%, M=52%; Urban F=66%, M=34% Ethnicity: 95% white Year: Jr. standing Major: Secondary education
Bingham & Abernathy, 2007	Quantitative, concept maps	Determine changes in attitudes toward working with students' families Focus on PST attitudes toward working with families	N=49; 24 in first semester, 25 in second semester Gender: F=44, M=5 Ethnicity: NR Year: 36 UG, 13 Grad Majors: UG-six special education, one early childhood, 29 dual major elementary and special education G-12 Special Education, one Health/PE
Brown et al., 2014	Quantitative, quasi-experimental	Evaluate impact on teacher candidates' knowledge and attitude toward parent involvement Focus on knowledge of "6 types of parent involvement" and attitudes toward working with families	Major N=1658 students from four university teacher-preparation programs Gender: F=84.9%, M=15.1% Ethnicity: 62.3% Caucasian, 6.3% African American, 0.3% Asian American, 2.1% "other" Year: UG=92.5%, G=7.5%
Collier et al., 2015	Qualitative and quantitative, questionnaire	Examine impact on PST dispositions toward home-school collaboration Focus on PST attitudes toward working with families	N=28 Ethnicity: 17 Caucasian, 5 Hispanic, 3 African American, 3 "other" Urban placed=22, Rural placed=6 Year/Major: Graduate level/Special Education
Jacobbe et al., 2012	Repeated measures, quantitative survey	Examine impact on PST perceptions of low-income parents and their engagement in children's education Focus on perceptions of families	M=67 (TG=24, CG=43) Gender: F=64, M=3 Ethnicity: TG=20 Caucasian, three Hispanic, one Asian; CG=36 Caucasian, four Hispanic, two African American, one Asian Age/Year: Median age 21, Undergraduate math methods course
McCollough & Ramirez, 2012	Repeated measures mixed methods	Determine PST ability to engage families in a culturally responsive way Focus on PST attitudes and perceptions of families at the event	N=502 Major: Elementary Education
Ramirez et al., 2016	Mixed methods, repeated measures questionnaire, postevent reflection	Understand impact on PSTs and Latino parent participants Focus on perceptions toward Latino parents y education STEP=Secondary education	<i>N</i> =95 Latino PSTs at two universities Course: 51 math education, 44 bilingual education

UG=Undergrad, G=Grad, ELTEP=Elementary education, STEP=Secondary education

3.2.4 Intervention Format

Of the studies included, six took place over an entire semester through course participation (Amaro-Jimenez, 2014; Bingham & Abernathy, 2007; Brown et al., 2014; Collier et al., 2015; Murray et al., 2008; Waddell, 2013). Two studies

incorporated field or practicum hours (Able et al., 2014; Waddell, 2013), while five took place at one (Bofferding et al., 2016; Jacobbe et al., 2012; McCollough & Ramirez, 2012; & Ramirez et al., 2016) or two (Bottoms et al., 2017) family nights held at the schools with academics-based activities for children along with preparation for these nights.

Direct interaction with parents/families. Murray et al. (2008) invited families to weekly class sessions where they kept up with course readings and participated in group projects with the PSTs. Within the semester-long course, PSTs in Bingham and Abernathy (2007) interviewed family members and parents of children with disabilities to gain insight into family life. Collier et al. (2015) implemented a Families as Faculty (FAF) program in which PSTs were introduced to family members in class and then were required to visit and interview families in their homes. Similarly, PSTs in Able et al. (2014) visited families in their homes to learn about and provide support to the families.

Family activity nights. Five studies provided direct interaction between PSTs and families through family activity nights centered around academic subjects (Bofferding, 2016; Bottoms et al., 2017; Jacobbe et al., 2012; McCollough & Ramirez, 2012; Ramirez et al., 2016). The family activity nights were activities incorporated into a semester-long course for PSTs but were also the interventions being assessed in the articles.

One-time experiences with no direct interaction with families. Some studies featured a one-time event or class session. McHatton et al. (2013) involved no contact with parents/families and employed a dramatic reading of found poems. Found poems "take existing texts and refashion them, reorder them, and present them as poems" (poets.org, n.d.). McHatton et al. used interviews with parents from a previous study to create their found poems. Accardo and Xin (2017) compared TeachLiveTM mixed reality simulation to traditional role-play simulations in class in groups of PSTs. Groups in both mixed-reality and role-play simulations were required to develop 504 plans for fictitious students.

Semester-long courses. PSTs in nine studies participated in several experiences conducted as part of a semester-long course (Able et al., 2014; Amaro-Jimenez, 2016; Amatea et al., 2012; Bergman, 2013; Bingham & Abernathy, 2007; Brown et al., 2014; Collier et al., 2015; Murray et al., 2008; Waddell, 2013). Four of the courses required PSTs to complete field observation hours (Able et al., 2014; Amaro-Jimenez, 2016; Bergman, 2013; Waddell, 2013), while three others hosted parents in university classrooms (Bingham & Abernathy, 2007; Collier et al., 2015; Murray et al. 2008), and the remaining two studies used simulation, lectures, videos, and readings (Amatea et al., 2012; Brown et al., 2014).

Program-wide intervention. Zeichner et al. (2016) featured a 2-year graduate program with a "Community Teaching Strand" in which panels made up of community elders and family members presented on various topics of interest to PSTs as future teachers and community members.

Technology-based interventions. Brown et al. (2014) used a web-based curriculum to deliver their content and supplemented the web-based component with instructor lecture and discussions. This implementation varied by university participating in the study. Accardo and Xin (2017) employed TeachLiveTM to simulate conference facilitation, professional communication, and instructional decision-making.

3.2.5 Study Measures

For studies including quantitative methodology, we noted whether the instrument was standardized, developed by the researchers, or if the researchers used a combination of both. One study employed a standardized measure (McCollough & Ramirez, 2012); five studies employed a measure created specifically for the study (Accardo & Xin, 2017; Bergman, 2013; Bingham & Abernathy, 2007; Collier et al., 2015; Jacobbe et al., 2012); and two studies used both a standardized measure and a researcher-developed measure (Amatea et al., 2013; Brown et al., 2014).

3.3 Results from Included Studies

This portion of the results report is divided into qualitative studies and quantitative plus qualitative studies. See Table 2 for a listing of key findings.

3.3.1 Qualitative Studies

Eight studies employed qualitative methodology (Able et al., 2014; Amaro-Jimenez, 2016; Bofferding et al., 2016; Bottoms et al., 2017; McHatton et al., 2013; Murray et al., 2008; Waddell, 2013; Zeichner et al., 2016). Each of these studies reported positive outcomes in the findings based on qualitative analysis. Studies in this section reported changes in understandings of families and their differences and needs, attitudes toward parent involvement, and the importance of outreach efforts to include and engage families at school. Specific outcomes are described below and in Table 2.

Increased confidence. PSTs increased their confidence in interacting and working with families as a result of interventions (Amaro-Jimenez, 2016; Bofferding et al., 2016; Murray et al., 2008; Waddell, 2013). In preintervention, several PSTs expressed fear, anxiety, feeling unprepared, lacking experience, or lacking confidence in their ability to work with families. In each of the studies listed above, outcomes included newfound confidence and feelings of preparedness.

Table 2. Study Activities and Findings

Table 2. Study Activities and Findings				
Study	Intervention Activities	Key Findings		
Qualitative Metho Able et al., 2014	Semester-long course Service hours with designate family Plan & implement family fun nights at school	 PSTs reported learning importance and benefit of Family diversity Family background impacting children's educational experiences Partnering with families 		
Amaro-Jimenez, 2016	30 hours field experience Attendance at extracurricular family school events Design lesson for small group based on observations Class discussion & written reflection about observations	 Improved confidence creating a home-school bridge, building rapport with families Improved understanding of importance of validating students' home language and emphasizing parents' role in education Improved understanding the linguistic and real-life needs of parents Believed "fostering parent involvement and engagement" will be "one of the most important tasks they will be responsible for as teachers 		
Bofferding et al., 2016	Facilitate family math night Design & implement math activity (e.g., measure length of hands) Parent survey with advice	 PSTs less nervous and more confident about working with parents PSTs noted importance of working with parents PSTs noted surprise at involvement of parents Insignificant change in attitude toward parent involvement Some PSTs were dissatisfied with parents' involvement 		
Bottoms et al., 2017	to new teachers Facilitate family math & science nights Implement a given math activity (e.g., marble role engineering challenge) Structured form provided to PSTs to plan lesson, approved by instructors prior to activity night Debrief in university classroom	 Shift from deficit to asset perspective/Difference as an asset Realized stereotypical thinking about parental involvement Confidence in interacting with families PSTs, children, & parents 'made meaning together' (p. 13) PSTs felt that teaching strategies were effective in interactions with families PSTs were challenged to provide science content in new, improvisational ways 		
McHatton et al., 2013	Students observe reading of poems exemplifying interactions with school personnel Portrayal of positive & negative interactions, positive & negative teacher/parent relationships	 Need for teachers to listen to families and be considerate teachers Identified on a personal or professional level with content Sympathy for families, gained new perspectives Surprise or disbelief at school's behavior Parents blame school or take no responsibility Need for more training in special education Themes about ethnodrama as a teaching tool: Beneficial teaching tool, Ethnodrama needs alteration, Unable to relate to the presentation 		
Murray et al., 2008	Parents serve as co-facilitators in semester-long course Collaboration project – Virtual Family • "Raise" a child with a disability • "Resolve medical, educational, family, & service issues" (p. 60) Deliver 30 to 45-min presentation summarizing research on a parent-suggested topic	Themes emerging from pre-course focus group: Self-perceptions—unprepared & inexperienced PSTs' perceptions of parents—Parents don't care/understand Parent/professional roles—Parents who care do what the teacher tells them to do Themes emerging from post-course focus group: Self-perceptions—Prepared and experienced PSTs' perceptions of parents—Parents face barriers to participation, Parents are knowledgeable Parent/professional roles—parents are partners		

Waddell, 2013

Three panel presentations containing principals, teachers, and parents Field-based activities guided by instructors: Neighborhood visits; Interviewing teachers; Family survey interview; Community/family Parent-teacher events; Visits to conferences;

Themes:

- Fear and anxiety about working with families
- Importance of working with families
- Awareness of ineffective current school practices (e.g., negative assumptions about families)
- Awareness of teacher's responsibility for creating authentic relationships with families
- Commitment to establishing collaborative family-school relationships

Zeichner et al., 2016

Panel presentations & debriefs on various topics (e.g., hopes and dreams, school-to prison-pipeline)
Small group conversations of concerns about working with parents
One-credit field-seminar course: Studies in Cultural Awareness

family home

Teacher Candidate Learning

- Re-positioning families from barriers to resources
- Translating knowledge to action taken in the classroom
- The first year of teaching

Programmatic Features

- Spaces for curricular integration
- All panels provided a space for "emotion in the room"

\	Intervention Activities	Assessment Tools	Key Findings
Quantitative & Co	ombined Methodolog	y	
Accardo & Xin, 2017	Collaborative team project 504 plan based on case study scenario	Self-reporting of confidence within instructor-developed rubric three components of Danielson framework: Facilitating Conferences Making Decisions Professional Communication Survey: Eight items on TeachLive TM , Descriptive statistics only	 Significant difference between control and intervention in favor of TeachLiveTM for: Facilitating conferences (F=26.37, p<.001) Making decisions (F=17.96, p<.001) No difference between groups for Professional Communication Descriptive analysis of results appears to show students rated TeachLiveTM highly
Amatea et al., 2012	Semester-long course Tutoring Writing personal vision Reflections on family Teacher introductory letter to family Horatio Alger activity Funds of Knowledge Discovery	Survey components: Demographic questionnaire Teacher Family Role Expectation Scale (TFRES; adapted from Ponteretto et al., 1998) Teacher Efficacy in Engaging Families Scale (TEEFS; researcher-develop ed) Teacher Problem-Solving Task Attribution (TPSA; researcher-develop ed)	 Increase in overall scores from pre to post TFRES: t = 12.179, df = 137, p<.001 TEEFS: t = 13.50, df = 137, p<.001 PSA: t = 4.12, df = 137, p<.001
Bergman, 2013	Semester-long course 15 hours	Parent Teacher Association's Standards for Family-School	 No meaningful interactions with parents or families prior to course Significant increase in number of strategies PSTs

classroom observation Guest speakers in class Book study examining resources on family engagement Introductory letter to parents/ guardians Semester-long course Review

Partnerships (Researcher-developed, based on PTA, 2010)

- identified for welcoming parents and families following course
- Increase in number of PSTs mentioning "Written Letter" as method of welcoming families
- Urban-placed PSTs shared significantly more welcoming strategies (Wilk's Lambda = .70, F(1,96)=42.10, p<.01)

Bingham Abernathy, 2007

Brown et al.,

Collier et al.,

2014

2015

of personal beliefs about families "Crossing the Line" activity Role-playing poverty

simulation game Interview with own caregiver of a child with a

"caregiver" and

disability PTE Curriculum Modules Implemented differently across institutions

Families as Faculty (FAF) Visit to FAF home Reflection paper Wrap-up session

Researcher-developed pre/post concept map featuring Positioning of teacher & members family

experts Service provision priority is:

> Child Service provision System Mix of above evident Not from concept map

Researcher-developed PTE Connect modules based on framework of National PTA standards; Attitude Toward Parent Involvement survey (Epstein, Connors-Tadros, &

Salinas, 1993) Researcher-developed questionnaire: Assessment self-perceptions

of

of communication and listening skills, level of understanding impact of disability on family dynamics, & capacity to empathize with parents and children

Increases:

- Communication-"Advocacy for children"
- Importance of "Role of parents"
- Understanding of "Family Issues"
- Decreases:
 - Importance of "Role of the school/teachers" 0 decreased
 - Importance of "Improving academic outcomes/Pedagogy" decreased

Overall PST knowledge increased and attitude improved significantly after course

Reflection paper analysis:

- Enhanced understanding of importance of effective communication between families and schools, relationship building, & positive language used in IEP process
- Enhanced understanding of complexity of families' lives, challenges of home life with a child with a disability, need for school to be cognizant of challenges families face, but no need to pity families

Ouestionnaire analysis:

- Significant increase in understanding of how experience will influence role as teacher with families
- Significant increase in confidence

3-yr follow-up survey (n=12):

- All reported FAF was positive for classroom practices.
- Four indicated making efforts to encourage parent participation in IEP process

Pre/post survey

- No differences between CG & TG on pre survey
- No difference from pre to post survey for CG
- Significant differences on post survey for TG in all but one item ("Parents stress the importance of homework")

1-yr follow-up survey

Jacobbe et al., 2012

Facilitated math activities (e.g., Tangram puzzles) Carnival in school cafeteria Children play academic

Researcher-developed pre/post survey + 1-yr follow-up survey Questions pertaining to PST perception of parent involvement children's education, and use of strategies to help

	games 25 door prizes awarded Parents given resource kits	their children (e.g., helping with homework, instilling importance of homework)	 One significant difference from pre-survey to follow-up (Parents' willingness to ask for ideas to help at home) One significant negative difference from post-survey to follow-up (parents' willingness to attend school activities) Five significant differences in positive direction between TG & CG
McCollough & Ramirez 2012	Family science night Create culturally responsive science activities	Two subscales of the SEBEST (Ritter et al., 2001): Personal science teaching efficacy & Science teaching outcomes expectancy	Significantly more confident engaging parents in children's education (elementary PSTs p =.0005; middle school PSTs p =.0003).
Ramirez et al., 2016	Family Math/Science Learning Event Research history of culturally related math or science topic Present to families Reflection	Researcher-developed parent involvement questionnaire	 Reflection Themes PSTs learned: how to work with parents, about becoming a culturally responsive teacher, that Latino parents value education, and about barriers for parental involvement Significant Questionnaire Items Many ELLs are not succeeding in school because their parents do not speak English at home (Pre=44%, Post=26%) Parents who speak Spanish do not support their children's education (Pre=5%, Post=2%)

PTE=Parent Teacher Education; SEBEST = Self-Efficacy Beliefs about Equitable Science Teaching;

Only results related to family-centered practices and social validity of interventions were included in table.

Perceptions about parents and families. As a result of some interventions, PSTs shifted their perspectives about families in general. For example, PSTs in Bottoms et al. (2017) and Zeichner et al. (2016) shifted from a deficit perspective to an asset perspective when thinking about families. Rather than seeing differences between school and families as something to work around, they now saw this as something that would enhance the experience. These PSTs also addressed their stereotypical thinking about families, as did PSTs in other studies (McHatton et al. 2013; Murray et al. 2008).

For the majority of PSTs, perceptions of parents and families were positive. "It was really cool how many parents were invested in their children's education" (Bofferding, 2016, p. 22). Some perceptions of parents and families were not positive or transformative. A few PSTs at the family night in Bofferding et al. expressed dissatisfaction with parents who remained distant while PSTs worked with the children.

Families as assets. In Waddell (2013) and McHatton et al. (2013), PSTs recognized the need to change the status quo or the established reality in public schools. This suggests they did not understand the importance of positive practice, but they could identify practices that may be counterproductive. In a few studies, researchers found that PSTs became aware that the work they do to welcome and partner with families will be one of the most important parts of their careers (Amaro-Jimenez, 2016; Bofferding et al., 2016; Waddell, 2013).

Social validity. Only one of the identified studies (McHatton et al., 2013) reported on PST perceptions of the process (i.e., the intervention they participated in). This study delivered content through dramatic reading of poems. Some PSTs felt that this was a beneficial tool, while others thought it needed alteration. Some PSTs reported that they were unable to relate to the presentation. These poems were meant to evoke empathy for families. The poems were read by faculty in a university classroom setting and no families were present.

3.3.2 Quantitative and Combined Method Studies

Nine studies employed quantitative methodologies (Accardo & Xin, 2017; Amatea et al., 2013; Bergman, 2013; Bingham & Abernathy, 2007; Brown et al., 2014; Collier et al., 2015; Jacobbe et al., 2012; McCollough & Ramirez, 2012; & Ramirez et al., 2016). Each of the studies reported improvements for PSTs as a result of the intervention. There were three main categories of growth across these studies: (a) gained understanding of families, (b) increased confidence in working with families, and (c) a more positive attitude about the importance of working with families.

The most impacted area across these studies seemed to be PSTs' understanding of families and family life. The

intervention in Bingham and Abernathy (2007) resulted in an improved understanding that teachers need to serve as advocates for children, but also that parents serve an important role in children's education as well. PSTs in two studies reflected a better understanding of the complexity of families' lives (Collier et al., 2015; Ramirez et al., 2017).

Along with improved understanding, PSTs reported improved attitudes or beliefs about families. PSTs gained an understanding of the importance of working with families (Brown et al., 2014). PSTs in Jacobbe et al. (2012) altered their beliefs about parents' motives and intentions regarding their children's education. Only one item (i.e., parents reinforce the importance of homework) was not changed from pre- to post-intervention. Ramirez et al. (2016) reported that PSTs significantly increased their belief that parents value education.

An important factor in whether teachers will implement a practice is whether they are confident in their ability to do so (Holdaway & Owens, 2015). PSTs in several studies increased confidence in working with families. Collier et al. (2015) reported overall increase in confidence toward working with families. PSTs in Accardo and Xin (2017) increased their confidence in facilitating conferences and making decisions. McCollough and Ramirez (2012) found PSTs were significantly more confident engaging parents in children's education.

Only one study reported increases in the area of ability to implement practices for including families. PSTs in Bergman (2013) were able to list more strategies for welcoming parents and families. Notably, PSTs placed in urban settings listed significantly more strategies than PSTs placed in rural settings.

4. Discussion

The purpose of this literature review was to examine practices for preparing preservice teachers (PSTs) to collaborate with families. We specifically explored the introduction of family-centered practices because these practices could facilitate and promote parental involvement. The first research question that guided this review focuses on the strategies TPPs are employing to introduce PSTs to the concept of family-centered practices.

With one exception (Zeichner et al., 2016), all of the included studies implemented practices within a single course. Zeichner et al. incorporated activities within a 2-year initial licensing graduate program. Interventions varied by length, format, location of work/observation, person delivering the instruction to PSTs, type of assignment/activity, and whether or not PSTs came into contact with family members. A few studies ran the length of the semester, while others included a few events or activities within the semester. None of the studies featured only one day; even if the main event was a family-school night, there was preparation in days before and reflection in class periods after the event.

The activities used to introduce the concept of family-centered practices included lecture, article reading, class discussion and debriefing, group projects, research projects, simulation games, virtual reality simulation, field-based observation, panel discussions, lesson planning, attendance at extracurricular events, facilitating family-school learning events, interviewing and visiting with parents, neighborhood tours, and observing a poetry reading. Each study incorporated more than one of these activities. Work and observations occurred in various locations including university classroom, K-12 classrooms, school neighborhoods, and family homes. Most studies conducted activities in more than one location. Preparation for activities and debriefing discussions typically occurred in the university classroom, and experiences occurred in the university classrooms, K-12 classrooms, neighborhoods, and school neighborhoods.

The use of various teaching strategies and activities (e.g., reading, observing, and practicing) in various environments (e.g., schools and homes) are important for adult, such as PST, learning (Sandlin, Wright, & Clark, 2011; Wang, Torrisi-Steele, & Hansman, 2019) and with the opportunity to receive prompt feedback while in these authentic environments (Woods, Wilcox, Friedman, & Murch, 2011). The effectiveness of professional development programs is significantly related to principles of adult learning (Green & Ballard, 2011). Trivette, Dunst, Hamby, and O'Herin (2009) completed a meta-analysis of adult learning strategies associated with positive learner outcomes. They reviewed 79 studies and analyzed the presence of six characteristics of adult learning: (a) introduce, introducing new information/practice; (b) illustrate, demonstrating of the use of the information/practice; (c) practice, engaging the adult in the use of the information/practice; (d) evaluate, having the adult evaluate the outcomes; (e) reflection, having the adult reflect on the learning experience; and (f) mastery, engaging the adult in self-assessment of learned information/practice. Trivette and colleagues (2009) concluded that all six adult-learning characteristics are important and associated with positive adult outcomes.

In addition, the activities used to introduce the concept of family-centered practices were facilitated by university faculty, K-12 faculty, and families. PSTs were positioned as the observers and learners in all studies. University professors provided information and organized activities, family members shared information and experiences to help PSTs learn their perspectives, and K-12 faculty provided a space for PSTs to observe and practice their craft. One of the key elements of family-centered practice is engaging with family members to understand their lives, goals, strengths, and needs and developing relationships between families and professionals (DEC, 2014). Therefore, including family

members in teacher preparation programs is an important component for facilitating PSTs learning.

Studies varied in whether and how directly PSTs interacted with families. Some studies did not provide direct interaction between PSTs and family members, but provided found poetry reading (McHatton et al., 2013), team projects with case study analysis (Accardo & Xin, 2017), written exercises (Amatea et al., 2012), and PTE curriculum modules (Brown et al., 2014).

All other studies did allow for direct interaction between PSTs and families. In two studies, panel discussions or guest speakers included coordinators of local parent resource centers (Bergman, 2013), parents (Waddell, 2013; Zeichner et al., 2016), and school faculty (i.e., teachers & school principals; Waddell, 2013). In six studies, PSTs interacted with families as they facilitated family-school nights (Able et al., 2014; Bofferding et al., 2016; Bottoms et al., 2017; Jacobbe et al., 2012; McCollough & Ramirez, 2012; Ramirez et al., 2016). In these situations, students were able to observe parents and interact with them briefly. Amaro-Jimenez (2016) required 30 field experience hours which included attendance at family school events. Three studies allowed for PSTs' interaction with families in the home, engaging in conversations, and conducting service hours at parents' request (Able et al., 2014; Collier et al., 2015; Waddell, 2013). In two studies, PSTs conducted structured interviews with families or listened as families told their stories (Bingham & Abernathy, 2007; Waddell, 2013). In two studies, family members served as faculty, co-facilitating university courses with university instructors (Collier et al., 2015; Murray et al., 2008). One of the six characteristics of adult learning is practicing whereby an adult engages in the use of the information/practice they learned (Trivette et al., 2009). Opportunities to interact with families and practice strategies for working with families is an important component in PSTs' learning.

The second research question that guided this review focuses on how TPPs' efforts impact PSTs' knowledge, practices, and attitudes toward and efficacy in implementing family-centered practices. The studies in this review focused almost exclusively on PST attitudes toward working with families. One exception, Bergman (2013), focused on increasing PST knowledge in a measurable way. No studies measured PST ability to implement family-centered practices. Two categories of outcomes emerged from this review of literature: (a) a new understanding of the importance and benefit of family-centered practices and (b) increased confidence for working with families.

4.1 Understanding the Importance of Family-Centered Practices

All studies reported changes in PSTs' perception of the importance and benefit of family-centered practices. Some studies reported this perception applied to general importance of working with families (Able et al., 2014; Amaro-Jimenez, 2016; Bergman, 2013; Bofferding et al., 2016; Bottoms et al., 2017; Ramirez et al., 2016; Waddell, 2013), and some listed perception changes about specific strategies or practices under the family-centered practices umbrella (Amatea et al., 2012; Bergman, 2013; Bingham & Abernathy, 2007; Collier et al. 2015; McHatton et al., 2013; Murray et al., 2008; Ramirez et al., 2016; Zeichner et al., 2016).

PSTs in Collier et al. (2015) realized the importance of effective, two-way communication, relationship building, and positive language. In McHatton et al. (2013), PSTs learned the need for teachers to listen to families. The Early Childhood Technical Assistance Center (2018) created the family-centered practices checklist to help professionals to self-evaluate their use of family-centered practices. This checklist highlights the importance of communicating and building relationship with families, for example "work with family in collaborative manner to obtain family prioritized supports and resources" and "be responsive to the family's unique life circumstances" (http://ectacenter.org).

Similar to the need for improved communication, PSTs in Bingham and Abernathy (2007) perceived a need for teachers to play an advocacy role for students and families. Bingham and Abernathy reported a decreased perception of the importance of the teacher/school role in improving academic outcomes. It seems that the activities in that study highlighted the need to focus on family needs rather than making all decisions from a standpoint of academics, to the exclusion of family concerns. Family-centered practices "treat families with dignity and respect; are individualized, flexible, and responsive to each family's unique circumstances; provide family members complete and unbiased information to make informed decisions; and involve family members in acting on choices to strengthen child, parent, and family functioning" (DEC Recommended Practices, 2014, p. 10).

While reducing the importance of teacher, school, and academics, PSTs in some studies learned to consider families and their individual members as entities that participate in school and academics as part of a larger existence that includes family and societal life experiences outside of school. PSTs realized their own stereotypical thinking about families (Bottoms et al., 2017). PSTs in several studies gained a new understanding of families and the barriers they face (Bingham & Abernathy, 2007; Collier et al., 2015; Murray et al., 2008) and a belief that parents do value education (Ramirez et al., 2016).

Along with changed perspectives about parents' attitudes toward schooling and the reduced importance of the teacher

and school, PSTs altered their view of the parent role in education. Parents play the role of partner in education (Amatea et al., 2012; Murray et al., 2008). This viewpoint allows for parents to define involvement for themselves and to help shape their children's educational experiences. Finally, PSTs felt that parents and the diversity across families would be an asset rather than a deficit (Bottoms et al., 2017; Zeichner et al., 2016). Special education from early intervention through adulthood stresses the importance of finding strengths and talents and building on those to foster self-determination. Real experiences with families and reflection may have demonstrated these concepts to PSTs.

A rare exception to the positive reported outcomes came from McHatton et al. (2013) who reported negative perceptions of families after the intervention. PSTs felt that parents were withdrawn or did not seem interested in the academic activities or in their children's participation. As stated in the introduction, families can be reluctant and perceive educators and school staff as intimidating and unapproachable. Furthermore, it is not uncommon for parents to prefer a type of interaction or involvement that is not the specific type that the school staff suggest.

Several studies in this review showed that experience brings confidence; PSTs in Amaro-Jimenez (2016), Bofferding et al. (2016), Murray et al. (2008), and McCollough & Ramirez (2012) gained confidence and a feeling of preparedness for working with families. PSTs in Accardo and Xin (2017) felt more prepared to facilitate parent-teacher conferences and to make educational decisions. Additionally, in Zeichner et al. (2016), a study of PSTs in a 2-year graduate program, PSTs reported they felt they could translate their knowledge into action.

4.2 Limitations and Implications

As with any review, there are a few limitations that need to be considered when interpreting the findings. First, this review is a scoping review and we didn't evaluate the rigor of the studies included. To conduct a systematic review, researchers need to use published quality indicators and standards (Council for Exceptional Children, 2014) to assess the quality of the studies included. Secondly, related to the process of identifying relevant studies, it is possible that we missed studies during our search and that using different key words would have resulted in different findings. For example, in addition to using *parent* and *family* we could have used *caregiver*. Furthermore, not all researchers are using the term *family-centered practices* and might use different terms such as *family-capacity building* and *help-giving practices*. Researchers might want to expand the key words and terms used to identify additional articles in future reviews.

There are also limitations to the studies included. It is not surprising that the majority of participants in the included studies were female and Caucasian; however, to have a better understanding of the range of perceptions and needs, more diverse group of participants should be sought. Additionally, the researchers used varied methodologies, methods, and tools and, therefore, it is difficult to compare and contrast among the different studies. One important finding of this review is that the studies focused almost exclusively on PSTs' attitudes toward working with families. One study assessed changes in knowledge, but none of the researchers evaluated implementation of family-centered practices by the PSTs. We know that shaping knowledge and attitudes is important, but these changes do not necessarily lead to shifts in practices. Therefore, it is important in future studies to evaluate changes in perception, attitudes, knowledge, and practices. Using observations (e.g., parent-teacher conferences and open houses) and permanent records (e.g., newsletters, e-mails, and notes to home) could help researchers identify the family-centered practices PSTs are using and their needed support.

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