

REVIEW ARTICLE

The case for parental support

Learning a musical instrument: the case for parental support

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Abstract

The aims of this research were to identify the ways in which parents may most constructively support their children's musical development, and to ascertain whether styles of parent-teacher and parent-pupil interaction would influence the extent to which parents engage in different types of supportive behaviours. A model of parent involvement as comprising behavioural support, cognitive/intellectual support, and personal support was applied to a sample of 337 parent-pupil-teacher trios, in the context of individual violin instruction. A typological approach was taken; using a quantitative survey that measured interpersonal interaction behaviours as well as learning outcomes six distinct categories of parent-pupil-teacher interaction types in instrumental learning were identified. The three categories of parental support were compared across these interaction types. The extent to which parents engaged in various types of support was found to vary according to interpersonal relating style, and the interaction types in turn were found to impact on learning outcomes. Learning outcomes, including enjoyment of music, motivation, self-esteem, self-efficacy, and personal satisfaction with music lessons, were found to be enhanced when parents a) elicited their children's views regarding appropriate parental involvement, b) negotiated with their children over practising issues, within parameters set by the teacher, c) provided a structured home environment for practice, d) took an interest in promoting good teacher-pupil rapport, e) communicated with the teacher in relation to the child's progress, and f) remained as a supremely interested audience.

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Learning a musical instrument: the case for parental support

Introduction

Powerful images of musicians' parents have been immortalized in accounts of the lives of many iconic figures in Western music. Parents have been depicted as exerting enormous influence on their children's musical development, as in the cases of Mozart (Solomon, 1994), Clara Schumann (Galloway, 2002), and more recently, Yehudi Menuhin (1977) and Jacqueline du Pré (Easton, 1989), to name but a few. At the other end of the spectrum are exceptional accounts of musicians who attained high levels of expertise and musical intelligence without parental support, as in the case of Louis Armstrong (Collier, 1983). Kyle Pruett (2003) invites us to conjure up our 'most enduring stereotype of the musician's parent. Then consider the opposite pole. Next, reflect on the intermediaries.' The purpose of this paper is to respond to Pruett's challenge by exploring the role of parental support amongst these 'intermediaries'. Evidence from a study of interpersonal relationships amongst pupils of the violin, their teachers and parents will be discussed. A typological approach will be taken, with the interface between three categories of parental support and children's musical development discussed in relation to six distinct types of parent-pupil-teacher partnerships in instrumental learning.

Background

Years of educational research, theory and wisdom sustain the view that parents play a key role in their children's academic achievement and motivation (Grolnick et al., 2002, Baker, 1997). In the domain of music, and specifically relating to the acquisition of expertise on musical instruments, the question of how families can best

support their children's interest has been a preoccupation of many researchers. Positive relationships between musical home environments and the musical responsiveness of children from these homes have been reported (Shelton, 1965, Wermuth, 1971, Kirkpatrick, 1962), and these findings have been elucidated by more recent research that has found children's musical development to be influenced by parental musical background (Bloom et al., 1981, Klinedinst, 1991), socioeconomic background (Klindedinst, 1991), parent support for practice and lessons (Doan, 1973, Brokaw, 1982, Sloboda et al., 1991, Zdzinski, 1992, Davidson et al., 1995), parental goals, aspirations and values (Sosniak, 1985, Addison, 1990, Davidson et al., 1999), parental self-efficacy (Creech, 2001), family interaction patterns (Davidson et al., 2002), and parent-teacher-pupil relationships (Creech, in press, Manturzevska, 1990, Hallam, 1998). This growing body of research suggests that the ways parents might support their children in persisting with learning musical instruments and developing musical expertise are diverse and complex.

The advent of the Japanese Suzuki method of violin teaching, which came to the West during the 1960's holding as a central tenet the importance of the parent as 'home teacher', played a powerful role in highlighting the issue of parent participation in the realm of children's instrumental learning. The Suzuki method, however, cannot claim sole ownership of the concept of parent-teacher-pupil partnership in instrumental learning; it has been demonstrated through biographical evidence (Weschler-Vered, 1986, Lochner, 1950, Milstein et al., 1990, Lewis et al., 2000, Stern et al., 1999, Menuhin, 1977) that parents, across cultures and historical time frames, have chosen to involve themselves integrally in the process of their children's instrumental learning. Empirical studies into the role of parents in instrumental learning (Doan,

1973, Brokaw, 1982, Sosniak, 1985, Sloboda et al., 1992, Davidson et al., 1996, Creech, 2001, Creech, 2006) have indicated that parental involvement in their children's musical development is not unusual; parents from diverse backgrounds and with children learning by a range of teaching methods have supported their children in pursuit of musical excellence. Furthermore, recent research investigating early musical influences in the lives of undergraduate music students and professional musicians has demonstrated that musicians across instrument groups and musical genres consistently cite their parents as being significant influences in their musical development (Welch et al., 2006).

Types of parental involvement

Parent involvement has been defined as “the dedication of resources by the parent to the child within a given domain” (Grolnick, 1997). Grolnick conceptualizes parent involvement as comprising behavioural support, cognitive/intellectual support, and personal support.

Behavioural support

Overt manifestations of parental support, including participatory activities and modeling the importance of the subject area, are included under the umbrella of *behavioural support* (Grolnick, 1994). In the domain of instrumental learning parents may offer behavioural support in the form of monitoring and participating in practice, attending lessons and adopting the role of home teacher.

In an experimental study involving beginning band students Brokaw (1982) found that “while it was not surprising to discover a strong relationship between the amount of time a student spends practising and the student's achievement in performance, ...

the amount of time spent by parents in supervising home practice is even a better predictor of successful achievement in the initial stages of development” (ibid: 97). Previously, Doan (1973) had produced similar results, in his study of seventh and eighth grade violin students. Amongst a number of factors, parental supervision of practice and parent attendance at the child’s concerts were identified by Doan as being significantly correlated to student achievement on the violin (ibid: 79).

Other research has helped to elucidate Doan and Brokaw’s findings. In a study of American concert pianists, Sosniak (1985) found that although many of the parents of her cohort had little musical background, their role of stimulating and supporting practice had been vital in sustaining their children’s growth in musical competence. Sloboda and Howe (1991) concurred with Sosniak when they found that high achieving students in a specialist music school had benefited from the support and encouragement of parents who, with little formal knowledge of music, took responsibility for helping with home practice and for encouraging their children to gain and maintain good practice habits. Davidson et al. (1995) demonstrated that parental commitment to assisting, encouraging and supporting the child in the early stages of learning was a more important predictor of successful musical outcomes than any specialist knowledge on the part of the parent. "Without the positive involvement of the parent in the process, the highest levels of achievement are likely to remain unattainable" (ibid: 44).

In a study involving teenage woodwind players Zdzinski (1992) demonstrated that parental involvement's effects upon musical achievement may differ with student age.

The ages of twelve to eighteen have been described as the mid-life crisis of young musicians, when the need to acquire or disown the interest in music becomes paramount (Bamberger, 1987). This is the point at which behavioural support may become less helpful, while an increasing emphasis on cognitive/intellectual support and personal support (see below) may become more valuable to the developing musician.

Cognitive/Intellectual support

Exposing the child to cognitively stimulating activities and resources and engaging in intellectually domain-specific activities in the home have been found to comprise an important area of parental support (Grolnick, 1994). Kulieke et al. (1989) demonstrated that families of gifted children engaged in this form of support by espousing values relating to persistence and achievement in the subject area and by facilitating the progress of their children along particular domain-specific paths.

According to Csikszentmihalyi et al (1993, p.174) high levels of cognitive/intellectual support and challenge have a positive effect on teenagers across all talent areas. Parents of these accomplished children typically devote great amounts of time and energy to meeting the needs of their children, set high standards, encourage productive use of time, provide challenging opportunities, make sure lessons and materials are available and set aside areas of the home where child can work privately (ibid).

In the context of instrumental learning parents offering this type of support provide the opportunities and materials that will assist the development of their children's musical intelligence, including arranging instrumental lessons, attending professional

concerts with their children, listening to and discussing music in the home, encouraging participation in extra-curricular musical activities, and providing musical resources.

Personal support

A growing body of evidence demonstrates that personal support represents a key area of parent involvement associated with sustaining a child's musical well-being (Pruett, 2003, Creech, in press). Education researchers have found that children in all age groups, including secondary school students, value their parents' help, interest and support, and that parental influence on children's behaviour remains extensive in adolescence (Brown et al., 1993, Crozier, 1999). However, Crozier emphasizes the need for pupils to have some control over parents' involvement, highlighting the importance of negotiation rather than imposition of psychological control characterized by intrusive or manipulative controlling/surveillance measures. (Crozier, 1999, Baumrind, 2005). Crozier here touches on the issue, so stark in adolescence, of the delicate balance between dimensions of 'agency' (the drive for independence) and 'communion' (the need to be engaged with others), which has been identified both in the literature relating to parenting style (Baumrind, 1989, Brown et al., 1993, Noack, 1998) and that concerned with interpersonal style (Van Tartwijk et al., 1998) and relationships (Birtchnell, 1993, Tubbs, 1984, Noller et al., 2001). Researchers and theorists argue that "people function most cohesively and confidently in contexts in which they experience significant others as being both caring and autonomy-supportive" (Noack, 1998: 227); achieving a successful balance in this respect may be a key factor in providing personal support for children's musical development (Creech, in press).

Considering the potential for conflict amongst those involved with musical instrument learning, particularly over practice, musical preferences, and time commitment expectations, it is perhaps rather surprising that little research to date has been directly concerned with this issue. The emotional demands made on parents by their musical children can be considerable. The parent-child relationship is particularly vulnerable when adolescents reach the aforementioned musical mid-life crisis (Bamberger, 1987), and as young musicians become increasingly susceptible to performance anxiety and the fear of negative judgement (Robson, 1987). As noted above, behavioural and cognitive/intellectual support encourages children to follow domain specific paths (Kulieke et al., 1989). Whether or not adolescents are likely to incorporate the parental orientation and persevere on these paths has been found by Smith (1991) to be dependent on parent-adolescent communication regarding educational aims, together with perceived agreement between the two parents.

Pruett identifies transcultural qualities of “good enough parenting” (Pruett, 2003: 155), amongst which the challenges of personal support are encapsulated. Included on his list are sensitivity to children and their ever-changing needs, the ability to make children feel loved, adored and enjoyed, devotion to sustaining strong values, affirmation of the child’s uniqueness while expecting competence, and sustaining an abiding presence through thick and thin. Research in the domain of music supports the enduring importance of these qualities, suggesting that pupils function best when they perceive the adults as both caring and supportive of autonomy and when they are able to engage in on-going mutual interaction with adults who continue to have a stake in their development and to act as their advocate (Noack, 1998, Manturzewska, 1990, Creech, 2006).

Parent-Teacher-Pupil interaction: a theoretical framework

Control and Responsiveness

Baumrind (2005) suggests that the extent to which parents engage in supportive behaviour is associated with interpersonal qualities she labels as responsiveness and demandingness. This model of interpersonal relating style is reflected in Birtchnell's relating theory (2001) whereby interaction is conceptualized on a horizontal closeness-distance axis (responsiveness) intersecting with a vertical upperness-lowerness axis (control). Birtchnell does not privilege different positions on his interpersonal model, pointing out that while closeness holds people together, distance provides the space to become autonomous, and while upperness allows the opportunity for people to exert influence on others, lowerness enables individuals to benefit from the care and leadership of others. The models proposed by Baumrind and Birtchnell resemble Leary's (1957) model for interpersonal interaction comprising control and responsiveness that served as the basis for the typology of interaction types, presented in this paper.

Methodology

Survey

The views of parents, pupils and teachers were elicited via the 'Survey of Parents' Views', 'Survey of Pupil Attitudes to Learning the Violin' and the 'Survey of Teacher Attitudes' developed for this investigation from existing research instruments that variously purport to measure a) children's satisfaction with instrumental lessons (Rife et al., 2001), b) parent involvement in children's instrumental learning (Doan, 1973), and c) interpersonal qualities of teachers (Wubbels et al., 1993).

Wubbels' (1993) Questionnaire on Teacher Interaction (QTI) provided a model of interpersonal behaviour developed from Leary (1957), who conceptualized all interpersonal behaviour around the two axes of responsiveness and control. Based on the QTI, the surveys of parents, pupils and teachers developed for this research included five-point Likert scales measuring these interpersonal mechanisms as they were operationalized within parent-pupil and parent-teacher-dyads.

The overall purpose of the survey was to establish a measurement of how the interpersonal dimensions of control and responsiveness influenced learning and teaching outcomes (Creech, 2001). Hence in addition to the groups of statements relating to scales for interpersonal mechanisms (control and responsiveness) the survey included scales for outcomes that were defined as professional/personal satisfaction, self-efficacy and (for parents) behavioural, cognitive/intellectual and personal involvement. For pupils additional measures were included for enjoyment of music, satisfaction with lessons, self-esteem, motivation and attainment.

This paper will specifically examine the measures of parental involvement and pupil outcomes in relation how the parent-pupil-teacher trios clustered according to their scores for control and responsiveness.

Survey distribution

Two hundred and sixty-three violin teachers were surveyed. The teachers were all members at least one of the professional organisations including the British branch of the European String Teacher's Association (ESTA), the Incorporated Society of Musicians (ISM), and the British Suzuki Institute (BSI), and postal return

questionnaires were distributed as inserts with the official newsletters of these professional organizations. Respondents from around Britain were aged from twenty to seventy-five, their years of teaching experience ranged from one to over thirty, and they taught in maintained schools, independent schools, private studios, specialist music schools, music colleges, and university music departments. Their pupils ranged from beginner to post grade eight, and from age five to adult. Eighty of these violin teachers distributed surveys to parents and pupils; of these eighty teachers sixty-eight (85%) were female and twelve (15%) were male.

Three hundred and fifty-two parents were surveyed. Two hundred and ninety-one were female while forty-seven were male (fourteen unknown). The majority (two hundred and seventeen) of parent respondents were aged forty to forty-nine, while sixty-eight were aged thirty to thirty-nine and just fifty-two were aged fifty or over. Ninety-three respondents claimed to have no musical background, while one hundred and forty-four parents had learnt an instrument as a child. Eleven parents had attended Music College and sixteen were professional musicians.

Three hundred and thirty-seven children (all of whom studied the violin) of the parent participants completed the survey; two hundred and fifty-one were female and seventy-six were male (ten unknown sex). The age range was six to eighteen, and the sample included those who had just begun learning ranging up to those who had been learning for in excess of six years. The average musical attainment level was Associated Board of the Royal Schools of Music grade four. The mean number of years studied was five, while the mean pupil age was twelve. Sixty percent of pupils

learnt by “no particular method”, nineteen percent learnt by the Suzuki method, and the remainder learnt by a number of other specified teaching methods.

Findings

Types of parental support

Behavioural support

Monitoring, supporting and assisting with lessons and practice, providing feedback during practice sessions and attending instrumental lessons were included on the scale for behavioural support (Table 1). The results indicated that generally parents did provide relatively high levels of behavioural support and that the greatest amount of ambivalence amongst participants was in relation to offering material rewards for achievement on the violin. The overall mean score for the scale was $\underline{M} = 3.6$, $SD = .81$.

TABLE 1 HERE

Cognitive/intellectual Support

Attending concerts, providing opportunities for extra-curricular musical activities, providing resources for musical studies and supporting learning in the home were included in the scale for cognitive/intellectual support (Table 2). The responses indicated that parents in this sample did prioritize providing resources for learning in the home, encouraged extra-curricular musical activities and supported their children by attending their concerts. The least amount of agreement was in relation to those statements that were concerned with widening their involvement to include arranging regular rehearsals with accompanists, attending professional concerts and sending the

children to summer music courses. Overall the mean score for this scale was approximately equal to that for behavioural support: $\underline{M} = 3.7$, $SD = .74$.

TABLE 2 HERE

Personal Support

The scale for personal support included variables that indicated parents were interested in their children's goals and views, rewarded their children with praise and were aware of dynamics between the child and the teacher (Table 3). The overall mean score for the scale for parental support was slightly higher than for the other types of support and there was less variability amongst the participants ($\underline{M} = 3.8$, $SD = .49$).

TABLE 3 HERE

Parent-pupil-teacher interaction: A typological approach

The question of whether the type or extent of parental involvement in the context of instrumental learning would differ according to 'interaction type' (based on measures of control and responsiveness) was investigated empirically in this study of violin pupils, their parents and teachers.

Cluster analysis

A cluster analysis, also known as taxonomy analysis was calculated, in order to ascertain whether the 337 parent-pupil-teacher trios in this sample would group into homogeneous subgroups of cases based on their scores for the measures of control and responsiveness (Romesburg, 2004). Cluster analysis refers to a number of mathematical techniques that can be used for determining how cases group together, maximizing between-group variation and minimizing within-group variation. Of the three main approaches to cluster analysis, k-means was the method deemed

appropriate for this analysis because the sample size was greater than 200 and less than 1000 (Everitt et al., 2001). K-means clustering involves the researcher specifying in advance the number of clusters. There is no statistical criterion for making this choice (Cramer, 2003), and in this analysis a six cluster solution was selected because it generated clusters that were all reasonable in size but were also all reasonably distinct from one another (Table 4). Furthermore, there were no significant differences in the mean pupil age, amongst the clusters, suggesting that the different interaction types were not age-dependent.

TABLE 4 HERE

Predictors of interaction types: control and responsiveness

Scores for underlying dimensions of the control and responsiveness scales (obtained with factor analyses) were entered as predictors of the clusters (for a detailed discussion of how the control and responsiveness factors were obtained and a description of each factor please see Creech, 2006).

Analysis of variance F statistics provided some information about the relative importance of each control and responsiveness factor in determining the separation of the groups. These statistics are descriptive only, because the clusters were chosen to maximize the differences among cases in different clusters and consequently the observed significance cannot be interpreted as tests of the hypothesis that the cluster means are equal. Table 5 shows the final cluster centres' mean values for each control and responsiveness factor, given in the order of importance suggested by the F statistics. The shaded variables in Table 5 are those that produced F values greater than 20 and therefore possibly contributed the most to the separation of the clusters.

Interpersonal dimensions within the parent-teacher relationship that contributed most to the separation of the clusters were parents' perception of teacher leadership and the degree to which parents felt they could approach teachers and contribute to the learning partnership. Within the parent-pupil relationship it was pupil receptiveness to parental support or conversely pupil autonomy that contributed to differentiation between clusters, while within the pupil-teacher relationship pupil-teacher accord and pupil influence were important differentiating variables.

TABLE 5 HERE

The table of Euclidean distances (Table 6) between the final cluster centres demonstrates that the biggest differences lay between clusters one and two and between clusters five and six, while the greatest similarity was found between clusters three and five.

TABLE 6 HERE

A model (see Figure 1) representing these six types of learning partnerships demonstrates that clusters one, two and three may be conceptualized as primary dyad plus a third party, while cluster four is represented as two primary dyads connected by one common member. Cluster five is characterized by very little communication between any two of the three individuals, while cluster six is characterized by reciprocity amongst all three participants.

FIGURE 1 HERE

Comparison of the clusters

Parental support amongst the clusters

Analyses of variance were calculated in order to compare the 'interaction clusters' on the basis of parent behavioural, cognitive/intellectual and personal support, as well as

pupil learning outcomes. Significant differences were found between the parents of each cluster, with respect to the extent to which they engaged in behavioural support ($F = 5.85_{(5)}$, $p < .0001$), cognitive/intellectual support ($F = 6.15_{(5)}$, $p < .0001$) and personal support ($F = 9.44_{(5)}$, $p < .0001$) they were most likely to engage in. Parents in cluster three and five, characterized by a distant and powerless parent-teacher relation, offered the least amount of support, overall. Those occupying cluster one, where the parent takes responsibility for ensuring that parent and pupil together follow the directive teacher, were found to offer the most behavioural and personal support. The highest levels of cognitive/intellectual support were offered by parents occupying cluster two, characterized by a parent who adopts a predominant and controlling role in relation to both pupil and teacher. Cluster six parents engaged in higher levels of personal support than either behavioural or cognitive/intellectual support (Table 7).

TABLE 7 HERE

Pupil outcomes amongst the clusters

Analysis of variance revealed statistically significant differences ($p < .01$) between clusters with respect to all of the pupil outcomes (for a detailed discussion of each pupil outcome please see Creech, 2006), including enjoyment of music ($F = 8.33_{(5)}$, $p < .0001$), personal satisfaction ($F = 5.77_{(5)}$, $p < .0001$), motivation ($F = 5.42_{(5)}$, $p < .0001$), self-efficacy ($F = 6.13_{(5)}$, $p < .0001$) and self-esteem ($F = 8.02_{(5)}$, $p < .0001$). Overall cluster five produced the least positive outcomes while cluster six produced the most consistently positive outcomes for pupils (Table 8).

TABLE 8 HERE

Differences in parental support amongst age groups, within clusters

Few differences in parental support amongst pupil age groups were found. Analysis of variance revealed that in the solo leader cluster there was a significantly higher level of behavioural support amongst the nine to eleven years age group than amongst the group aged eight and under ($F = 4.13_{(4)}$, $p = .007$). In the discordant trio cluster significantly higher personal support was found amongst the sixteen to eighteen years age group than amongst those aged twelve to fifteen ($F = 4.05_{(3)}$, $p = .01$).

Persistence with learning and musical attainment

In order to investigate whether or not parental support and interaction type might be associated with persistence with learning the clusters were compared according to years of learning and musical grade level attained.

The highest mean grade level was found in clusters two (*dominant duo*) and six (*harmonious trio*), while the lowest was found in cluster five, the *discordant trio* (Figure 2). Pupils in the dominant duo and harmonious trio clusters, as well as the dynamic duo cluster, were found to have the highest mean number of years studied. Parents occupying these former two clusters were similar in that they offered relatively high levels of support in all three areas of parental support (see Table 7 above). However, the findings in respect of the dynamic duo (cluster three) challenge the view that parental support is a prerequisite of musical attainment; the evidence suggests that a substantial minority of pupils persevered with learning and attained a relatively high level of musical expertise without the benefit of particularly intense levels of parental support.

Discussion

The parents in this sample of 337 parent-pupil-teacher trios engaged in the business of learning the violin were generally found to offer high levels of behavioural, cognitive/intellectual and personal support. Pupils in all age groups benefited from parental support, although there was some evidence that for some behavioural support was at its height when children were approaching adolescence at age nine-eleven, while for others cognitive/intellectual support was the greatest for the oldest group of pupils.

There was only moderate agreement overall related to whether or not parental support was broadened to include facilitating activities such as attending summer courses, attending professional concerts and organising regular rehearsals with accompanists. Thus parents in this sample may not have placed a high priority on allocating resources to musical activities that were not directly related to violin lessons and practice. Furthermore, while there was evidence of some ambivalence about offering material rewards in return for musical achievement the responses indicated that most parents agreed wholeheartedly that they would reward musical success with praise. Six types of parent-pupil-teacher interaction were identified, determined by the participants' scores for facets of the interpersonal dimensions of control and responsiveness. These interaction types were found to differ significantly according to the extent to which parents engaged in the three types of parental support.

Where parents were remote from the teacher and relatively impotent in terms of having any influence over the teacher (the dynamic duos and discordant trio clusters), relatively low levels of parental support were in evidence. In contrast, the clusters

where the highest levels of behavioural and cognitive/intellectual support were those (solo leader and dominant duo) where parents had high perceived teacher leadership, took an active role in the learning partnership and occupied a predominant role in relation to either pupil or teacher. Parents within the cluster characterized by parental ambition together with sensitivity and responsiveness in relation to both teacher and pupil (the harmonious trio cluster) were more likely to offer personal support than either behavioural or cognitive/intellectual support.

Relatively high mean scores for all three types of parental support were found amongst parents in both the solo leader and the harmonious trio clusters, yet the pupils amongst the latter cluster evidently experienced greatly enhanced outcomes. The evidence here suggests that the interpersonal context in which parental support is manifested may constitute a key factor in understanding the contrasting outcomes between the two clusters. While parental support may facilitate positive outcomes for pupils this is not deterministic; it appears that relatively poor outcomes for pupils are possible within a context where intense parental support is offered.

Pupil outcomes, defined as enjoyment of music, satisfaction with lessons, motivation, self-efficacy and self-esteem were found to be diminished amongst those pupils occupying the discordant trio cluster, where the least amount of parental support was in evidence. This finding adds to earlier research that suggests where parents place a low value on the subject matter, have low expectations of success, do not have the wherewithal to help their children at home and/or are intimidated by teachers the result can be a downward spiral of mutual distrust, lack of communication and absence of shared purpose amongst parents, teachers and pupils alike (Bandura, 1997,

Hurley, 1995). In contrast, the findings in respect of clusters four and six, where the most consistently positive outcomes for pupils were found, elucidate earlier research that has proposed a model of parent-professional-child partnership whereby parents lie at the heart of a system which advances the child's development while professionals take primary responsibility for advancement of knowledge and skills (Henry, 1996). Furthermore, these findings support the view that pupils function best when they perceive the adults as both caring and supportive of autonomy and when they are able to engage in on-going mutual interaction with adults who continue to have a stake in their development and to act as their advocate (Noack, 1998, Manturzevska, 1990).

Some evidence was found that children who occupied interaction types characterized by relatively high levels of parental support across the three areas were more likely to persevere with learning and attain higher levels of expertise on their instruments than those amongst other clusters. However, the findings in respect of the dynamic duo (cluster three) suggest that a substantial minority of pupils amongst this cluster persevered with learning and attained more than a modicum of musical expertise without the benefit of a great deal of parental support. This could reflect the importance of the development of autonomous learning or alternatively may suggest that a dynamic teacher-pupil relationship may compensate for parental support; either interpretation warrants further investigation. Furthermore, there could have been migration amongst the interaction types; pupils who had started off their studies in one type of relationship with parents and teachers may have migrated to the 'dynamic duo' (cluster three), with the benefit of a history of behavioural and cognitive/intellectual support that has been found to be so important in the formative

years of young musicians. Again, the model merits further investigation, in this case within a developmental framework.

Conclusions: the versatile parent

The message that parents may take from this paper is that effective and supportive parental involvement in instrumental learning requires parents to be versatile, adept at moving between the close and distant positions on the responsiveness axis and between directive and acquiescent positions on the control axis on the model for interpersonal dimensions. This may involve providing much practical assistance and personal support during the early years of learning yet seeking and following the teacher's advice in musical matters and allowing the child and teacher the space to develop an autonomous relationship. It also may involve remaining resilient in the face of reluctant practising while remaining as the child's interested and supportive advocate long after practical help has ceased to be appropriate or welcomed by the teacher and pupil. Most importantly, parents should not become uninvolved in their children's learning in the name of agency, nor disempower their children in the name of communion. Specifically, positive outcomes may be achieved when parents a) elicit their children's views regarding appropriate parental involvement, b) negotiate with their children over practising issues, within parameters set by the teacher, c) provide a structured home environment for practice, d) take an interest in promoting good teacher-pupil rapport, e) communicate with the teacher in relation to the child's progress, and f) remain as a supremely interested audience.

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References

- Addison, R. (1990) 'Parents' Views on their Children's Musical Education in the Primary School: A Survey'. *British Journal of Music Education*, 7 (2), 133-141.**
- Baker, A. (1997) Parent Involvement in Children's Education: A Critical Assessment of the Knowledge Base. *Annual Meeting of the American Education Research Association*. New York, Eric Document Reproduction Service.**
- Bamberger, J. (1987) The mind behind the musical ear. *Biology of Music Making Conference*. Denver, CO.**
- Bandura, A. (1997) *Self-Efficacy: The Exercise of Control* (New York, W.H. Freeman and Company).**
- Baumrind, D. (1989) 'Rearing Competent Children'. in Damon, W. (Ed.) *Child Development Today and Tomorrow*. (London, Jossey-Bass).**
- Baumrind, D. (2005) 'Patterns of Parental Authority and Adolescent Autonomy'. *New Directions for Child and Adolescent Development*, 108 61-69.**
- Birtchnell, J. (1993) *How Humans Relate: A new interpersonal theory* (UK, Psychology Press).**
- Birtchnell, J. (2001) 'Relating therapy with individuals, couples and families'. *Journal of Family Therapy*, 23 63-84.**
- Bloom, B. & Sosniak, L. (1981) 'Talent Development'. *Educational Leadership*, November 86-94.**
- Brokaw, J.P. (1982) The Extent To Which Parental Supervision And Other Selected Factors Are Related To Achievement Of Musical And Technical-Physical Characteristics By Beginning Instrumental Music Students. *Music, University of Michigan* Michigan, USA**
- Brown, B.B., Mounts, N., Lamborn, S.D. & Steinberg, L. (1993) 'Parenting Practices and Peer Group Affiliation in Adolescence'. *Child Development*, 64 (2), 467-482.**
- Collier, J.L. (1983) *Louis Armstrong: An American Genius* (Oxford, Oxford University Press).**
- Cramer, D. (2003) *Advanced Quantitative Data Analysis* (Maidenhead, Open University Press).**
- Creech, A. (2001) Play for me: An exploration into motivations, issues and outcomes related to parental involvement in their children's violin study. MA, *Music, University of Sheffield* Sheffield**
- Creech, A. (2006) Dynamics, Harmony and Discord: A systems analysis of teacher-pupil-parent interaction in instrumental learning. PhD, *Institute of Education, University of London* London**

- Creech, A. (in press) 'The Role of the Family in Supporting Learning'. in Hallam, S. (Ed.) *The Oxford Handbook of Music Psychology*. (Oxford, OUP).
- Crozier, G. (1999) 'Parent Involvement: who wants it?' *International Studies in Sociology of Education*, 9 (2), 111-130.
- Csikszentmihalyi, M., Rathunde, K. & Whalen, S. (1993) *Talented Teenagers: The Roots of Success and Failure* (Cambridge, Cambridge University Press).
- Davidson, J. & Borthwick, S.J. (2002) 'Family Dynamics and Family Scripts: A Case Study of Musical Development'. *Psychology of Music*, 30 121-136.
- Davidson, J., Howe, M., Moore, D. & Sloboda, J. (1996) 'The role of parental influences in the development of musical performance'. *British Journal of Developmental Psychology*, 14 399-412.
- Davidson, J., Howe, M. & Sloboda, J. (1995) 'The Role of Parents and Teachers in the Success and Failure of Instrumental Learners'. *Bulletin of the Council for Research in Music Education*, 127 40-44.
- Davidson, J. & Scott, S. (1999) 'Instrumental learning with exams in mind: a case study investigating teacher, student and parent interactions before, during and after a music examination'. *British Journal of Music Education*, 16 (1), 79-95.
- Doan, G. (1973) *An Investigation of the Relationships Between Parental Involvement and the Performance Ability of Violin Students*. Music, Ohio State University Ohio, USA
- Easton, C. (1989) *Jacqueline du Pré: A biography* (USA, Da Capo Press).
- Everitt, B., Landau, S. & Leese, M. (2001) *Cluster Analysis, 4th Edition* (London, Edward Arnold Publishers Ltd.).
- Galloway, J. (2002) *Clara* (London, Jonathan Cape).
- Grolnick, W. (1994) 'Parents' Involvement in Children's Schooling: A Multidimensional Conceptualization and Motivational Model'. *Child Development*, 65 237-252.
- Grolnick, W. (1997) 'Predictors of Parent Involvement in Children's Schooling'. *Journal of Educational Psychology*, 89 (3), 538-548.
- Grolnick, W., Gurland, S., DeCoursey, W. & Jacob, K. (2002) 'Antecedents and Consequences of Mothers' Autonomy Support: An Experimental Investigation'. *Developmental Psychology*, 38 (1), 143-155.
- Hallam, S. (1998) 'The Predictors of Achievement and Dropout in Instrumental Tuition'. *Psychology of Music*, 26 116-132.
- Henry, M. (1996) *Young Children, Parents, and Professionals: enhancing the links in early childhood* (London, Routledge).
- Hurley, C.G. (1995) 'Student Motivations for Beginning and Continuing/Discontinuing String Music Instruction'. *The Quarterly Journal of Music Teaching and Learning*, VI (1), 44-55.

- Kirkpatrick, W.C. (1962) Relationships between the singing ability of pre-kindergarten children and their home environment. PhD, *University of Southern California*
- Klinedinst, R. (1991) 'Predicting Performance Achievement and Retention of Fifth-Grade Instrumental Students'. *Journal of Research in Music Education*, 39 (3), 225-238.
- Kulieke, M.J. & Olszewski-Kubilius, P. (1989) 'The Influence of Family Values and Climate on the Development of Talent'. in VanTassel-Baska, J. L. & Olszewski-Kubilius, P. (Eds.) *Patterns of Influence on Gifted Learners*. (New York, Teachers College Press).
- Leary, T. (1957) *Interpersonal Diagnosis of Personality: A functional theory and methodology for personality evaluation* (New York, Ronald Press Company).
- Lewis, T. & Staryk, S. (2000) *Fiddling With Life: the Unusual Journey of Steven Staryk* (Canada, Mosaic Press).
- Lochner, L.P. (1950) *Fritz Kreisler* (New Jersey, Paganiniana Publications Inc).
- Manturzevska, M. (1990) 'A biographical study of the life-span development of professional musicians'. *Psychology of Music*, 18 (2), 112-139.
- Menuhin, Y. (1977) *Unfinished Journey.:* (Great Britain, Macdonald and Jane's Publishers Ltd.).
- Milstein, N. & Volkov, S. (1990) *From Russia to the West* (New York, Henry Holt & Co.).
- Noack, P. (1998) 'School Achievement and adolescents' interactions with their fathers, mothers, and friends'. *European Journal of Psychology of education*, XIII (4), 503-513.
- Noller, P., Feeney, J.A. & Peterson, C. (2001) *Personal Relationships Across the Lifespan* (Hove, East Sussex, Psychology Press).
- Pruett, K. (2003) *First patrons: Parenting the Musician. 21st Annual Symposium on the Medical Problems of Musicians and Dancers*. Aspen, Colorado.
- Rife, N.A., Shenk, Z.M., Lauby, J.L. & Lapidus, L.B. (2001) 'Children's Satisfaction with Private Music Lessons'. *Journal of Research in Music Education*, 49 (1), 21-32.
- Robson, B. (1987) 'Post-performance depression in arts students'. *Medical Problems of Performing Artists*, 2 137-141.
- Romesburg, C.H. (2004) *Cluster Analysis For Researchers* (North Carolina, Lulu Press).
- Shelton, J. (1965) The influence of home musical environment upon musical response of first grade children. *George Peabody College for Teachers*
- Sloboda, J. & Howe, M. (1991) 'Biographical Precursors of Musical Excellence: An Interview Study'. *Psychology of Music*, 19 3-21.
- Sloboda, J. & Howe, M. (1992) 'Transitions in the early musical careers of able young musicians: choosing instruments and teachers'. *Journal of Research in Music Education*, 40 (4), 283-294.

- Smith, T.E. (1991) 'Agreement of adolescent educational expectations with perceived maternal and paternal educational goals'. *Youth and Society*, 23 (2), 155-174.
- Solomon, M. (1994) *Mozart: a life* (London, Hutchinson).
- Sosniak, L.A. (1985) 'Learning to be a concert pianist'. in Bloom, B. S. (Ed.) *Developing talent in young people*. (New York, Ballantine).
- Stern, I. & Potok, C. (1999) *My First 79 Years* (New York, Alfred A. Knopf).
- Tubbs, S.L. (1984) *A Systems Approach To Small Group Interaction* (New York, Random House).
- Van Tartwijk, J., Brekelmans, M. & Wubbels, T. (1998) 'Students' Perceptions of Teacher Interpersonal Style: The front of the classroom as the teacher's stage'. *Teaching and Teacher Education*, 14 (6), 607-617.
- Welch, G., Duffy, C., Potter, J. & Whyton, T. (2006) *Investigating Musical Performance (IMP): Comparative Studies in Advanced Musical Learning*. Institute of Education, University of London, Funded by the ESRC/TLRP, grant reference RES-139-25-0258.
- Wermuth, R. (1971) Relationship of Musical Aptitude to family and student activity in music, student interest in music, socioeconomic status, and intelligence among caucasian and negro middle school students. *Ohio State University Ohio, USA*
- Weschler-Vered, A. (1986) *Jascha Heifetz* (New York, Schirmer Books).
- Wubbels, T., Creton, H. & Levy, J. (1993) 'The Model for Interpersonal Teacher Behaviour'. in Wubbels, T. & Levy, J. (Eds.) *Do you know what you look like? Interpersonal relationships in education*. (London, Falmer Press).
- Zdzinski, S. (1992) 'Relationships Among Parental Involvement, Music Aptitude, and Musical Achievement of Instrumental Music Students'. *Journal of Research in Music Education*, 40 (2), 114-125.

Table 1: Behavioural support
Behavioural Support

	Mean*	Std. Deviation
I arrange for my child to have individual violin lessons.	4.28	1.51
I attend my child's violin lessons	3.27	1.80
I assist with my child's practising.	3.46	1.32
I make sure that my child does daily practise.	3.49	1.29
I listen to my child's violin practise.	3.71	1.09
I provide transport to music lessons and rehearsals.	4.14	1.51
I offer constructive criticism when my child practises the violin.	3.69	1.20
I offer material rewards for achievement on the violin.	2.41	1.31

*Minimum score = 1, maximum score = 5

Table 2: Cognitive/intellectual Support

Cognitive/Intellectual Support	Mean*	Std. Deviation
I attend my child's concerts.	4.45	1.21

The case for parental support

I make sure my child has regular rehearsals with a piano accompanist.	2.85	1.45
I send my child to summer music courses.	2.53	1.69
I take my child to professional concerts.	2.71	1.05
I encourage my child to participate in extra curricular musical activities.	3.89	1.16
I maintain a space in our home which is conducive for practising.	4.26	1.35
I provide a quality instrument for my child.	4.42	1.32
I ensure that my child's instrument is maintained properly.	4.37	1.24
My child has access to listening equipment in our home.	4.52	1.24
I arrange for lessons on a second instrument for my child.	3.78	1.87

*Minimum score = 1, maximum score = 5

Table 3: Personal support

Personal support	Mean	SD
My life has changed because my child learns the violin.	3.21	1.12
I am prepared to revise my personal expectations, when my child has different goals from my own.	3.91	.71
I am interested in knowing what my child hopes to achieve, through violin study.	3.96	.69
I am aware when my child does not understand the teacher's directions.	3.67	.93
I reward my child's success with praise.	4.40	1.2

Table 4: Number of cases in each cluster

Cluster	Number of cases (Total = 337)	Mean pupil age (years)
1	40	10.7
2	54	11.3
3	89	11.6
4	67	10.7
5	38	10.4
6	49	12.2

Table 5: Final cluster centres

	Relative importance for separation of the clusters (ANOVA)	1	2	3	4	5	6
		Solo Leader	Dominant Duo	Dynamic Duo	Double Duo	Discordant Trio	Harmonious Trio
Perceived teacher leadership (parent control factor 1)	F = 52.45 ₍₃₂₃₎ , p < .0001	.418	.474	-.282	.355	-1.570	.510
Pupil-teacher accord (pupil responsiveness factor 1)	F = 38.42 ₍₃₀₃₎ , p < .0001	-1.105	.018	.144	.494	-1.048	.726
Pupil-parent autonomy (pupil control factor 3)	F = 36.52 ₍₃₁₃₎ , p < .0001	-.260	-.380	.962	-.690	-.144	.002

The case for parental support

Receptive to parental support (pupil responsiveness factor 2)	F = 30.89 ₍₃₀₃₎ , p < .0001	.682	-.055	-.862	.586	.305	.114
Intimidation (parent responsiveness factor 2)	F = 28.37 ₍₃₁₄₎ , p < .0001	.705	-.433	.013	-.109	1.051	-.772
Parent isolation (parent control factor 3)	F = 28.29 ₍₃₂₃₎ , p < .0001	1.382	-.517	-.087	.005	.142	-.488
Pupil-teacher influence (pupil control factor 2)	F = 25 ₍₃₁₃₎ , p < .0001	-.407	.383	-.081	.312	-1.235	.568
Approachability (parent responsiveness factor 1)	F = 21.4 ₍₃₁₄₎ , p < .0001	-.308	.481	-.342	.828	-.561	-.230
Parent preponderance (parent control factor 5)	F = 17.28 ₍₃₂₃₎ , p < .0001	.320	.675	.059	-.804	.022	-.064
Pupil-teacher reticence (pupil responsiveness factor 3)	F = 14.75 ₍₃₀₃₎ , p < .0001	.346	-.781	.410	-.044	.366	-.363
Communication (parent control factor 2)	F = 14.11 ₍₃₂₃₎ , p < .0001	-.284	.257	-.425	.735	-.034	-.237
Parental ambition (parent control factor 4)	F = 13.91 ₍₃₂₃₎ , p < .0001	.322	-.059	-.442	-.210	.011	.841
Pupil-teacher deference (pupil control factor 1)	F = 13.55 ₍₃₁₃₎ , p < .0001	1.067	-.317	-.314	.011	.034	-.005
Impatience (teacher control factor 3)	F = 13.07 ₍₁₁₀₎ , p < .0001	1.209	-1.309	.137	.219	.332	-.328
Commitment (teacher control factor 2)	F = 11.17 ₍₁₁₀₎ , p < .0001	.842	.365	-.230	-.411	.015	1.238
Acquiescence (parent responsiveness factor 3)	F = 10.72 ₍₃₁₄₎ , p < .0001	.769	.265	-.332	-.153	-.422	.315
Receptiveness to new ideas (teacher responsiveness factor 2)	F = 10 ₍₁₁₁₎ , p < .0001	-.499	.714	.273	.287	.038	-1.015
Confidence (teacher control factor 4)	F = 9.77 ₍₁₁₀₎ , p < .0001	-.637	.952	.060	-.110	-.097	-.931
Reciprocity (parent Responsiveness factor 3)	F = 8.69 ₍₃₁₄₎ , p < .0001	.401	-.161	-.390	.283	-.285	.467
Sensitivity to pupils (teacher responsiveness factor 1)	F = 5 ₍₁₁₁₎ , p < .0001	-.373	.887	.102	-.121	-.326	-.270
Communication skills (teacher responsiveness factor 4)	F = 4.84 ₍₁₁₁₎ , p < .0001	-1.343	.002	-.288	-.558	-.105	.010
Leadership (teacher control factor 1)	F = 4.69 ₍₁₁₁₎ , p = .001	.620	.393	-.027	.490	-.448	-.394
Interest in views of others (teacher responsiveness factor 3)	F = 1.34 ₍₁₁₁₎ , p = .232	-.057	-.002	.221	.020	.216	-.488

Table 6: Euclidean distances between final cluster centres

Cluster	1	2	3	4	5	6
1		5.128	4.297	3.998	3.808	4.312
2	5.128		3.403	3.209	4.571	3.749
3	4.297	3.403		3.213	3.048	3.698
4	3.998	3.209	3.213		3.931	3.517
5	3.808	4.571	3.048	3.931		4.608
6	4.312	3.749	3.698	3.517	4.608	

Figure 1: Parent-pupil-teacher interaction types

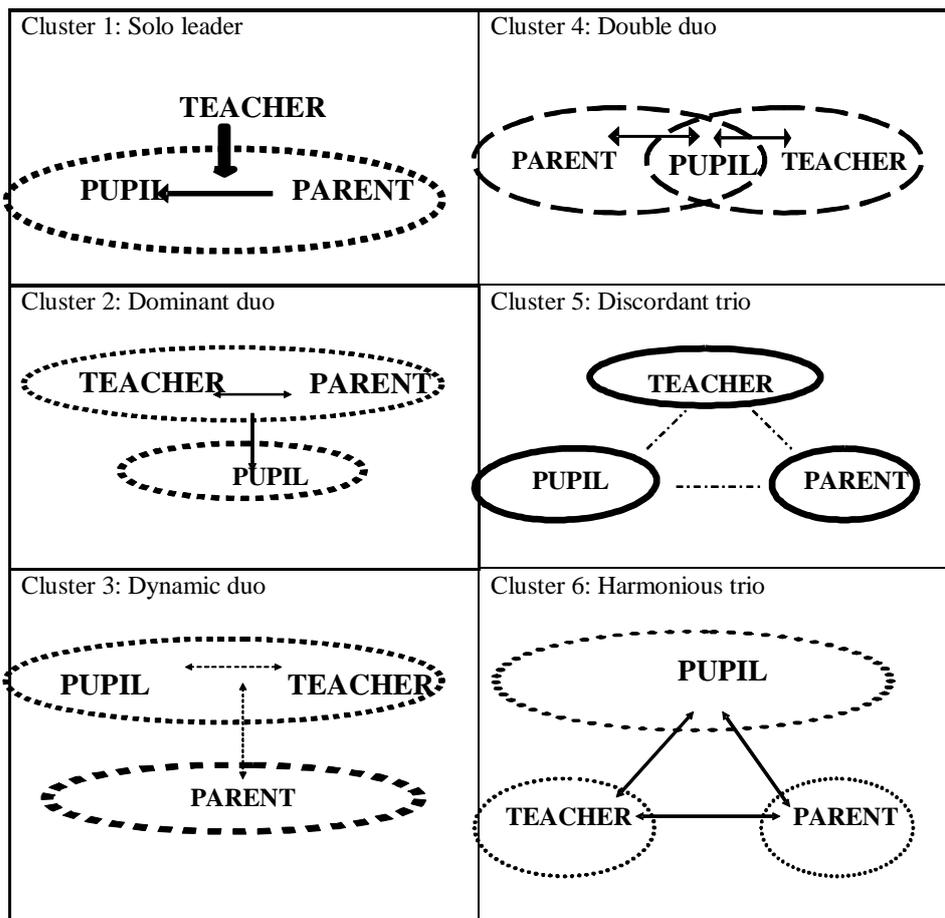


Table 7: Mean scores* and standard deviations for parent support, amongst the six clusters (SD in brackets)

Cluster	Behavioural support	Cognitive/intellectual support	Personal support
Solo leader	3.91 (.75)	3.91 (.75)	4.03 (.34)
Dominant duo	3.87 (.62)	4.00 (.47)	3.90 (.49)
Dynamic duo	3.30 (.84)	3.45 (.69)	3.62 (.44)
Double duo	3.50 (.87)	3.61 (.79)	3.90 (.51)
Discordant trio	3.35 (.70)	3.38 (.78)	3.63 (.49)
Harmonious trio	3.62 (.71)	3.74 (.72)	4.02 (.41)

*Minimum = 1, maximum = 5

Table 8: Standardized mean scores and standard deviations for learning outcomes, according to cluster (SD in brackets)

Outcome for pupils	Interaction cluster					
	1	2	3	4	5	6
	Solo Leader	Dominant Duo	Dynamic Duo	Double Duo	Discordant Trio	Harmonious Trio
Enjoyment of music	-.26 (1.08)	.21 (.87)	-.26 (.93)	.27 (.96)	-.55 (1.20)	.47 (.69)
Personal satisfaction	-.23 (1.05)	.10 (.93)	-.19 (.93)	.27 (1.06)	-.50 (.97)	.43 (.82)
Motivation	-.17 (.85)	.03 (1.08)	-.28 (.93)	.31 (1.01)	-.31 (.98)	.43 (.90)
Self-efficacy	-.30 (.96)	.26 (.83)	-.27 (.96)	.23 (.98)	-.38 (.91)	.41 (1.09)
Self-esteem	.02 (.86)	-.001 (1.00)	-.48 (.91)	.39 (1.06)	-.18 (.95)	.44 (.80)

Figure 2: Pupil violin grades and years studied, according to clusters

