### Childcare: Is it in a child's best interest?

### A literature review

In my work practice I have seen a dramatic rise in problematic preschool child behaviour and I see anecdotal evidence that the longer the hours a child is in childcare the more frequent and intense the child's symptoms. If childcare is so good, as Early Childhood Task Force (2011) suggests, then why would more hours not show better indicators? This, along with the early childhood education media reports of our child crime and social issues¹ bring me to question if childcare is in children's best interests.

While reading a report by the children's commissioner, Through Their Lens (Carroll-Lind and Angus, 2011) that documented positive outcomes for underprivileged children in early childcare, I became uncomfortable with the assumption that therefore Early Childhood Education would be beneficial to all preschool children regardless of background, i.e. assuming that an educational institution was more beneficial than good or even average parental care. I began to seek research in this area to find what research had been done.

#### There are two prevailing worldwide thoughts regarding early childcare (Scheiwe, 2009).

- a) One follows the idea of universal care for all preschool children. The rationale is that early childhood education gives students an academic, social and behavioural advantage over non early childhood educated children and that therefore it is in a child's best interests, and society's too, to provide early childhood education to all children.
- b) The second thought is that early childhood education is simply a means to allow women to be in the workforce ideologically this takes on three streams 1) productivity the idea that if we can 'double' the workforce our economy will be better off, thus a financial reason for early childhood education; 2) the emancipation of women women should not be tied to the 'apron strings' simply by virtue of being female in gender and they deserve the right of a career equal to the rights of their male counterparts and childcare assists this, and 3) the necessity of early childhood education because of the financial need for

<sup>&</sup>lt;sup>1</sup> New Zealand Herald articles from 2011: "Misbehaviour by kids rated No. 1 social issue", "Courage needed to dig us out of worsening mire", "Our child alcoholics: 190 treated in Auckland last year, and that's just the tip of the iceberg", "Crime shock: NZ's little thugs"

© Kaye McKean, Parents Partner. Please do not distribute without permission of author. dual income families in today's society, or the reality of single parent families, therefore this necessitates the provision of early childhood education.

The first view sees early childhood education as a merit good, universally beneficial to all, while the second view sees early childhood education as a means to an end, perhaps even a necessary 'evil', not necessarily in a child's best interests, but in the best interests of a select group (be it feminism, productivity, financial survival), or in the interests of the majority.

It would seem from the recent two early childhood education reports: Early Childhood Education Task

Force (2011) and Children's Commission report (2011) that NZ has adopted the universalist paradigm<sup>2</sup>.

The assumption is that if early childhood education can help underprivileged children, then it can therefore assist all children. This is backed up by reports such as the Competent Children's Project (Wylie, 2001) which showed that early childhood education continued to have important bearings on children's performance at age 10. It should be noted that in the USA where the most 'famous' research projects were carried out they are more prone to adopting the second stream of thought and that therefore we are using research founded on one assumption to support an ideology founded on quite a different assumption!

Feeding my interest in this topic was radio talk back discussions surrounding planned government cuts to early childhood education funding. It seems that our current government may be leaning away from the universalist approach to early childhood education in that they are wanting to target early childhood education funding more towards lower socio economic families. This may simply be dollar saving or it could signal a change in political thinking. This proposed change is naturally being greeted with opposition from those who have been schooled in the universalist approach, and who have never doubted that this is the path

<sup>&</sup>lt;sup>2</sup> The New Zealand Herald editorial commenting on these reports: "Counting the Cost of Kid's Care" fully supports the notion that childcare is a beneficial, merit good to all society and therefore should be paid for by the government and the tax payer.

New Zealand society should take. It is the approach which our Colleges of Education promote<sup>3</sup>, as they believe that early childhood education is advantageous to all children and should be a right of all children<sup>4</sup> (May, H and Mitchel, L (2009:4). Historically in New Zealand, early childhood "changed hands", so to speak, from the ministry of social welfare in 1985 to the ministry of education, thus demonstrating the adoption of an educationally focussed universalist style approach to childcare as opposed to a care taking, "help the Mum's work," mind set. This was followed by a rapid increase in government funding to the early childhood education sector and greater emphasis on the trained teacher as opposed to a nurturing "mother replacement" type figure. The radio debates I refer to showed a tension between these two ways of thinking with some groups saying that children would now be disadvantaged due to funding cuts, while other groups saying why should society pay for something parents should be doing themselves. Significantly, emotion was highly charged in the radio debate, with various groups incredulous that the government's commitment to a fully trained workforce had been scaled down, and that this would therefore lower the quality of the education preschool children would receive and quality is deemed so important.

On a third side of the debate, is recent research asserting early childhood education neuroscience findings, that a child's attachment to their primary caregiver (usually Mum) is pivotal to not only academic but also emotional, moral and social development<sup>6</sup>. This research therefore goes against the prevailing New Zealand belief in universalism and considers institutionalized care a necessary, but far less than ideal, outcome for children. Supporting this perspective is the increasing social, academic and behavioral problems of today's youth<sup>6</sup>, following approximately 25 years of government funded early childhood care under the ministry of education. Newspaper headlines are recurrent with the themes of crime, substance abuse and academic failure in todays youth. Could there be a link to their early childhood roots?

<sup>&</sup>lt;sup>3</sup> "Working in Early Childhood education and care will offer you a challenging and rewarding career, enhancing the lives of infants, toddlers and young children" from University of Canterbury website

<sup>&</sup>quot;Early childhood teachers are among the most influential and important members of the community. The teaching and care that they offer lay the foundation for success in education, and in life. Our Early Childhood programmes prepare graduates to take on this responsibility with confidence, and enjoy the excitement, creativity, and challenge of working with young children". from Victoria University Website

<sup>&</sup>lt;sup>4</sup> "Every child has a right as a citizen to participate in free early childhood education." (May, H and Mitchel, L (2009:4).

<sup>&</sup>lt;sup>5</sup> See literature review summaries below for more detail

<sup>&</sup>lt;sup>6</sup> See NZ Herald article review summaries below

### Literature Review:

Carroll-Lind and Angus, in their Children's Commissioner report (2011) state "I think it's time we revisited the mix of parental leave entitlements and subsidized child care to see how they can be structured to best meet the needs of very young children." They have recognised the demographic changes to New Zealand childcare enrollments and are linking the dots between this and *a child's best interests*.

New Zealand early childcare experience is descriptively and statistically different from the major studies showing benefit from attendance. The vast bulk of early childhood suppliers in New Zealand are private, for profit groups (Farquar, 2010) that offer a full day, curriculum centered, educational approach to early childhood. In most cases the children attending these centers have full time working parents - suggesting the childcare fits under the work- care model, but they promote themselves as educational centers for a child's intellectual and social betterment? The government funding given for every child would further suggest an educational model, as would the educational emphasis of the centers themselves in their marketing, promotional material, websites and information for parents. The full time hours offered by the centers better reflect a work-care model and the long hours of this model of childcare are not supported by the research as being beneficial for children, and indeed have not been subject to specific research per see. The limited research that does exist suggests that long hours in daycare are detrimental to a child's wellbeing (Carroll-Lind and Anges, 2011). There is seldom an acknowledgement or even a hint that full time childcare may not be in a child's best interests or in any way detrimental to a child's wellbeing and development, but instead early childhood centres promote themselves as giving children an advantage, a head start.

<sup>&</sup>lt;sup>7</sup> A brief survey of ABC, Kindercare, Lollipops websites etc. share this philosophy

<sup>&</sup>lt;sup>8</sup> ibid

<sup>&</sup>lt;sup>9</sup> A selection of quotes from the Auckland Yellow Pages Childcare and Education section all firmly suggesting that childcare is an undisputed positive advantage for preschool children: "Kindercare advantage", "outstanding care and education", "cherishing children", "premium educational adventure", "Because children matter", "full potential", "making a difference in the lives of children", "Stimulating and educational", "quality educational program", "qualified staff", "good beginnings that last a life time", "extensive learning program", "an inquisitive mind and a lifetime love of learning", "from the day your baby is born, until the day they go to school . . . "

# Journals

Journal Title	Summary
Shpancer, Noam (2006), The effects	This article explores the difficulties and challenges associated with
of daycare: Persistent questions,	researching early childhood. A good article to take advice from
elusive answers Early Childhood	when evaluating the weaknesses in research.
Research Quarterly, Vol 21, Issue 2,	
2nd Quarter, 2006: 227-237	
Brandtjen, H (2001), Short and	This research document summarises the effect of full time day care
Long Term Effects on Infants and	on the normal maturation functions of the human brain. Significant
Toddlers in Full Time Daycare	delays and enduring problems are postulated as a result of what is
Centres, Birth Psychology, Vol 14,	known of attachment and it's impact on brain development. This
Issue 4	needs to be considered along side the positive educational aspects
	of childcare.
Lowenstein, A.E. (2011), Early Care	An examination of the legitimacy of early childhood claims to
and Education as Educational	promote children's long term success. Lowenstein argues well that
Panacea:What do we really know	the research that makes such claims is flawed and easily refuted,
about it's effectiveness? Journal of	however her summation, that elementary school, therefore, is the
Education Policy, January	answer to children's long term success may be short sighted or too
2011:25:92	narrow.

Belfield, C.R. et al (2006), The High/
Scope Perry Preschool Program:
Cost-Benefit Analysis Using Data
form the age 40 Followup

The most successful of all researched childcare pilot programs the Perry Preschool Project showed a return of \$12.90 for every \$1 spent on childcare over a 40 year period. The gains, however, are subject to much criticism (identified in other cited articles) and came mostly from reduced crime by males and the other, hoped for benefits, did not eventuate. The dollar figure is enticing, but it needs to be considered along side America's high incarceration rate, and other factors involved. When these are considered the dollar value reduces significantly (see other articles critiquing this project).

Nickman, L.N. (2006) Who Should Care for Our Children? The Effects of Home vs. Centre Care on Child Cognition and Social Adjustment.

Journal of Family Issues 27, May 2006: 652-684

This research article points out the way research can get two different results. Using both cross-sectional and longitudinal analysis of data, Hickman came up with differing results. She concludes that the benefits of children in childcare are significantly less than previously thought and that while the issue of childcare is still widely debated the research is now outdated and overruled by more significant and reliable findings.

Locurto, Charles, (1991), Beyond
IQ in Preschool Programs,
Intelligence 15:303-304

A look at the key research into the advantages of preschool programs: Perry, Chicago, Head Start etc. and considers the significance of the results in terms of the financial and other costs.

Gains / advantages have been modest and given the limits of these projects to lower socio economic groupings and the depth of these models compared to standard early childhood settings, Locurto questions their effectiveness and the defenders of this as a model. In conclusion Locurto asks a significant question: "In the light of such modest (to nil) gains from early child care and education, the efficacy of preschool programs should be challenged so that the search for more successful forms of intervention is not obscured, by the one eyed approach to daycare."

Puma, M et al. (2010), Head Start
Impact Study: Final Report. US
Department of Heath and Human
Services, Administration for Children
and Families, Office of Planning,
Research and Evaluation.

Head Start is a widely lauded, longitudinal US program for disadvantaged children aimed at better preparing them for school. It focused only on 3 and 4 year olds, and therefore the data, while widely used to support universal childcare for any age, is wrongly used in this way. While there is small scale improvement of initial outcomes, most of these were not present one year after starting school. The most significant improvement seems to be in the dental hygiene and health insurance coverage and in a little less spanking of children by parents in the home (perhaps due to them being in parental care less hours?). Natural questions that arise from these findings include: a) is this a good enough result for the time, effort, resources and money that have been used? and b) is there a different kind of intervention that would make a more quantum improvement in the futures of disadvantaged children? Is childcare the best intervention?

Jeynes, W.H. (1999) The Effects of Religious Commitment on the Academic Achievement of Black and Hispanic Children, *Urban* Education 34:458 A study of 20,000 High School students showing that Black and Hispanic students from intact families and who were religious, had no achievement gap when compared to white students. This is, reportedly, the only research showing a complete erasure of the achievement gap based on family characteristics and individual religious commitment without any discussion of government early childhood intervention. In other words, this study shows that intact families within a religious context overcame the academic gap between racial groupings without the costly need for early childhood education. However, it naturally raises other issues, but is interesting and should be included in the study for it's originality and also for the sample size.

Barnett, W.S (1995), Long Term A report considering the dichotomy of research surrounding the Effects of Early Childhood effects of childcare. It makes recommendations about the Programs on Cognitive and School sustainability of 'quality' care and how this can be maintained, having Outcomes, The Future of Children, concluded that if the childcare is 'quality' then it will benefit rather than harm."Quality" however, is ill defined and not evidence based. Vol 5:3 pgs I - 24. Weilin, Li et al (2011) Which The authors argue that a combination of quality infant and Combination of high Quality Infant preschool care gives the best school readiness result. Outcomes Toddler and Preschool Care Best measure only cognitive and academic achievement as tested by the **Promotes School Readiness?** Woodcock-Johnson Applied Problems. The review admits that the Society for Research on Educational children experienced different forms and hours and duration of this Effectiveness, pp 13. 'quality care' and therefore there is a weakness in comparability. Since the research is so inconsistent and lacking obvious controls it cannot be used as evidence in any way. However, it is pseudoresearch like this that is so often quoted. Vandell, D et al, (2010), Do Effects This well written and comparatively unbiased article acknowledges of Early Child Care Extend to Age that the effects of childcare are minimal by the age of 15, be they 15 Years? Results from the NICHD positive or negative. study of Early Child Care and Youth Development, Child Development, May/June, 2010, Vol 81, No. 3:737-756

## Research Articles / Literature Reviews / Reports

Article title / reference	Summary
http://	Focusing on the aspects of childcare that are able to be regulated,
www.community.nsw.gov.au/	group size, ratios, qualifications of teachers, staff turnover and wages,
docswr/_assets/main/	the physical environment, this group reviewed pertinent literature as to
documents/	the importance of these to quality outcomes for children.
research_qualitychildcare.pdf	
www.taskforce.ece.govt.nz,	Widely regarded as a political white wash, and narrow in scope and
(2011), An Agenda for Amazing	outlook and significantly biased, this report still alludes to the now
Children for the Ministry of	widely recognised problems surrounding institutionalised care for
Education.	under 2 year olds. It's recommendations are weak, scattered and
	minimal, and fail to reach the depth or the heights suggested by the
	ambitious title of their report.
Belsky, Jay (2006), Effects of	Using statistics from a large survey of the National Institute of Child
Childcare on Child	Health and Human Development, the author analyzed the effects of
Development in the USA,	daycare on different aspects of child behaviour, cognition, socialisation
Institute for the Study of Children,	and emotion. The survey found that greater risk to child healthy
Families and Social Issues, London	development coincided with greater hours in care and earlier
	attendance at daycare, while there were some academic benefits. It
	was pointed out that both the risks and advantages of daycare were
	small in their effect, but that due to the increasing numbers of children
	involved, that even a small change would have larger societal effects.
	The article concludes with a recommendation for longer paid parental
	leave and / or other options to allow parents to be at home with their
	children during the preschool years.

Carroll-Lind, J. and Anges, J, A thorough report into the effect of childcare on under two year olds (2011), Through their Lens: An considering a broad spectrum of literature and research with some brave conclusions. The writers consider the prevalence of infant care inquiry into non-parental education and care of infants and rates in New Zealand and their rapid rise, the suitability of childcare toddlers, Office of the Children's centres to cater to these children's developmental needs, recent Commissioner neuroscience (although I believe this could have been done deeper and wider), and issues of quality. The authors conclude saying that parents need to be better supported to care for their children at home during these years, and where this is not practical significant changes need to be made to the way childcare is offered to these families. Fagan, P and Garrett, J (2002) This article argues that since daycare is being shown to have negative Dollars for Daycare, Pennies for or neutral affects on child's health, aggression and other factors, and Marriage? www.heritage.org since an intact family is a strong indicator of childhood success that governments should focus their subsidies on supporting traditional families. A very one eyed agenda, but nevertheless, their research is thought provoking - are there better, alternative intervention models? Is the daycare approach necessarily best? Various contributors (2005), A review of academic research showing that family structure is a Family Structure and Children's significant contributor to children's academic performance, suggesting Educational Outcomes, Centre that this, above other factors such as government funded childcare (for for Marriage and Families, example) is a better focus for societal change. Research Brief No. I, November 2005

Effrem, K (2011), Preschool is Not the Panacea Portrayed in Study, http://edlibertywatch.org/
2011/06/preschool-is-not-the-panacea-portrayed-in-study/
#more-434

A critique of the outcomes of childcare research and the way in which it is reported. The article points to the deceiving headlines media has used when suggesting that the research shows good results from early childhood education when in fact, while the results showed some improvement, the children were still 'failing' in the school system, just not failing so bad. "The overall results for these kids are still dismal". Also called into question is the causal factors of these small advancements. While their attendance at childcare was considered the cause, data suggests that the parental involvement in these programs may be the catalyst, not the program nor the childcare itself. This may explain why results cannot be replicated in typical early childhood settings. With the US federal government spending over \$2 Trillion on preschool education and \$85 Billion on Head Start over the last 30 -40 years with no real narrowing of the achievement gap it may be worth considering and researching the suggested alternatives of this report even if they are not politically expedient or the current social norm.

Effrem,K (2011), Studies on
Effectiveness of Early Childhood
Programs, Edlibertywatch.org

Effrem considers the 'fade out' effect of early childhood programs citing growing evidence that the beneficial effects disappear the longer a child is at school. Further she notes the brain research literature and asks whether this is being given due consideration in educational policy.

Effrem then goes on to highlight evidence from the very research which is used to support early childhood education that shows academic and emotional harm and suggests governments consider other research that indicates that parental involvement may be better at closing inequality gaps in children's outcomes than early childhood education.

http://tvnz.co.nz/national-news/	A leading news article referring to the Children's Commissioner's
children-under-one-should-	report "Through their Lens", a look into the care of under 2 year old's
home-report-4074200	in New Zealand. While a little sensational in it's headline, it is,
	nevertheless an accurate summation of the report.
http://www.timesonline.co.uk/	TIME magazine article quoting a UNICEF report which supports the
tol/life_and_style/health/	notion that children under 12 months should be at home with a
child_health/article5321524.ece	parent. The article goes on to comment that Children born today into
	the "rich world" are part of the first generation in which a majority will
	spend a large part of their early childhood in childcare. In Britain about
	80 per cent of those aged 3 to 6 are now in some form of formal
	childcare or education. For those under 3, the proportion is now 25
	per cent. This article is important as it seems to me that if we are
	experimenting with our children it should be based on good, solid
	research.
http://	An article by a Pro-childcare group in Australia critiquing the research
www.earlychildhoodaustralia.or	regarding higher cortisol levels in children in daycare. The article
g.au/early_childhood_news/	points towards the "insignificantly small" differences in the cortisol
april_2008_stress_levels_of_chi	levels and questions whether such a small difference should be given
ldren_in_child_care.html	such loud attention. However, the cotisol increase is in the realm of 80
	- 90% in some studies, so is this article based on good research or bias?
http://www.smh.com.au/news/	A Sydney Morning Herald book review and interview of a leading
national/day-care-is-bad-for-	psycho-educational thought person in Australia who has published a
babies-biddulph/	book stating that children under 3 years old should not be in daycare.
2006/03/17/1142582520873.ht	
ml	

http://	An insightful article by Psychology Today summarizing the childcare
www.psychologytoday.com/	debate. In short it says that research is so wide and varied in what it
blog/insight-therapy/201010/is-	shows that it cannot really be trusted. As a leading example they cite
non-parental-daycare-bad-	that research has shown both cognitive benefits and deficits from
children	attending daycare, shows better and worse social competencies,
	hinders or does not hinder parent-child relationships etc. Pointing out
	these inconsistencies the article speaks to me saying there is a need for
	robust research that truly compares 'apples with apples' as much of the
	research quoted about 'daycare' per se does not define the type of
	daycare being studied nor does it necessarily research full time
	institutionalized, non-parental care daycare, which is the most prevalent
	daycare in New Zealand. Thereby, research, for example, showing no
	effect of daycare on parent-child relationships, for example could be
	researching home-based or parent led childcare, and this significant
	detail is omitted in the headlines. An insightful article for pointing to
	the inadequacies and deficits of research and it's subsequent reporting.
http://www.slate.com/id/	A fascinating, frustrated mother's blog article about her views of
2162876/	childcare as a full time working Mum and what she thinks of this so
	called "negative" cortisol, behaviour and academic research on daycare
	children. A good article to get a range of literature types as the
	mother writes eloquently and passionately, with research and reason to
	back her position.
http://www.canada.com/topics/	This article does it's best to balance both sides of the research
lifestyle/parenting/story.html?	equation and argues that childcare is okay, so long as it is quality
id=67637476-488d-420a-ae04-	childcare, but it fails to give a robust definition of this.
cf53525fadeb	

http://aspe.hhs.gov/hsp/
ccquality-ind02/

This article by the US Department of Health and Human Services describes what the authors believe to be the 13 determining factors of quality early childhood education. To me this document is the epitome of a bureaucracy gone mad. The emphasis on 'equipment', 'buildings', 'cleanliness', 'emergency evacuation plans', 'immunizations', 'handwashing' . . . in my opinion puts the preciousness of children and basic developmental psychology way down the list. If you really followed this list you would have to believe that no child who was brought up in Central Africa, South America etc, had any chance of achieving happiness and success in life (whatever that really means)! If this document is used to assess quality care then our children are in dangerous hands (albeit, I do think that washing hands etc. is important, it is not "THE" test of quality, and certainly not up there in my top 13 tests!). The concept and definition of "quality" needs much deeper examination.

http://psychcentral.com/news/ 2010/05/17/benefits-of-highquality-child-care/13866.html This is an example of quasi-academic research. What the article says, is then corrected saying there can be no proven relationship, and there are qualifications about it's findings littered throughout the article. Having said this, it is refreshing that they openly admit these deficiencies, where other reports and articles don't mention them and require digging with a fine tooth comb to find them.

http://

www.washingtonpost.com/wp-dyn/content/article/2010/05/14/AR2010051400043.html

The effects of low quality care are spelled out in this article illustrating that there are potentially life long disadvantages for children who endure this poor quality childcare. However, the research also included poor quality parental care, so a deeper reading of the research details is needed to determine what specifically is being measured here. Another example of poor journalism muddling their reporting and thereby giving a false impression to readers.

http://	The full interview regarding the above Washington Post article which
www.washingtonpost.com/wp-	demonstrates how newspapers sensationalize their articles. Rather
dyn/content/discussion/	demoralizing to realize how we are likely being hoodwinked daily on
2010/05/14/	various issues, if this is standard journalism practice.
DI2010051401873.html?	
sid=ST2010051401954	
http://	New South Wales document regarding what determines quality in
www.community.nsw.gov.au/	childcare: a research review. Will be commented on in the Research
docswr/_assets/main/	articles section.
documents/	
research_qualitychildcare.pdf	
http://pn.psychiatryonline.org/	Research with Romanian Orphans show that children with
content/46/13/1.1.full	institutionalized and deprived origins have shorter "telomeres" which
	are linked to a host of negative health outcomes including
	cardiovascular disease, diabetes, and cognitive decline, amounting to an
	acceleration of the aging process. It would be interesting to research
	the same "telomeres" in children who were in full time,
	institutionalized early childhood education centres from infancy.
	Having worked in Romanian orphanages I have a personal interest in
	this.
http://www.bukisa.com/articles/	Reactive attachment disorder is commonly recognised in orphaned
227814_reactive-attachment-	and / or foster children. However, like the writer of this article, in my
disorder-from-an-educators-	practice I am increasingly witnessing children (on a sliding scale of
perspective	severity) with symptoms very much like Reactive Attachment
	Disorder, but without the expected maternal depravation. They are
	typically children who spend long hours in daycare and who have been
	there from a young age. This needs researching.

http://www.radkid.org/	Dr. Faye Snyder states in this article that she (a self confessed feminist)
fsnyder.html	believes that Reactive Attachment Disorder and ADHD (Attention
	Deficit Hyperactivity Disorder) are strongly linked to children
	attending daycare as toddlers or younger." Some are wealthy children
	with a string of fired nannies," some are the result of split parents and
	too early shared custody interrupting child-parent attachment, some
	are day care children.
http://thecausaltheory.com/	Cortisol 70 - 90% higher in children in daycare regardless of daycare
articles/	quality. Infants who experience non-maternal care for more than 20
EFFECTS_OF_EARLY_CHILDC	hours per week are 1.6 times more likely to be insecurely attached to
ARE_EXPERIENCE_ON_QUA	their parent.
LITY_OF_ATTACHMENT_AN	
D_LATER_BEHAVIOR.pdf	
http://www.nichd.nih.gov/	The National Institute of Health and Human Development (USA) has
research/supported/seccyd/	conducted a raft of research into the costs, benefits and effects of early
biblio.cfm	childhood education. This page summarises a large body of literature
	which I have not had time to review. In a true literature review I would
	need to read and consider these articles.
Mitchell, L et al (2008)	A large overview of recent literature pertaining to outcomes for
Outcomes of Early Childhood	children from early childhood education. Many will be familiar with this
Education: Literature Review.	recent report and should consider it together with other research
Report to the Ministry of	such as those referred to in this paper.
Education, New Zealand	

## Books

Book Title	Summary
Alison Clarke-Stewart and	This book acknowledges that childcare outside the home is an
Virginia D.Allhusen (2005),	unavoidable part of Western civilization and supports the feminist
What we know about childcare	movement and a county's productivity. Childcare is promoted as
	acceptable and preferred in high quality situations. The book is focused
	primarily on parent needs rather than children's needs and does not
	give attention to a child's emotional needs nor to the effect of long
	hours in care. Focus is given to the intellectual and educational aspects
	of childcare. But this ignores the research that shows that the bulk of
	the time during this preschool age group is given to developing the
	right hand side (emotional) of the brain. Given this understanding it
	makes claims about developing the intellect of preschoolers rather
	ludicrous.
Chambliss, Catherine (Ed),	Taking the opinions of teens, young adults and their parents this book
(2009), Maternal Employment:	concludes that Maternal work works, but "no one size fits all". Of most
Marvel or Menace: the views of	interesting note is the results of the attachment survey given to
Children, Young Adults and Parents.	participants. Counter to many other studies quoted in this essay, this
Nova Science Publishers, New	research shows that children of working mothers had a healthier adult
York	attachment state (less anxiety, dependence and more closeness) than
	those of non-working mothers. The author acknowledges that this is
	an unexpected result and suggests further study, along with suggesting
	that a reason for this may be that the participants were first year at
	University and had just left home, maybe raising the insecurity of those
	who were (possibly) more attached to Mum and less 'street smart'.
	The results though are interesting.

Hertz, R and Marshall, N.L (ed)
(2001), Working Families:The
Transformation of the American
Home, University of California
Press, Berkeley

A collection of fascinating essays on the changing life of American

Homes documenting irony regarding our focus on children 
consumerism, care, clothing, toys, education and our neglect of their

emotions, relationships and time with parents. Not passing comment 
there is an obvious lack of a concluding chapter - this book gives a

broad perspective of the situation American children now find

themselves in.

Clarke-Stewart, K. Alison,
Gruber, C.P and Fitzgerald, L.M
(1994), Children at Home and in
Day Care, Lawrence Erlbaum
Associates, Hillsdale, New Jersey

Written in the era when the focus of child development was cognitive, behavioural and socialisation this book considers childcare beneficial to children on these three scales, while acknowledging that there are variances and questions within each of these categories. For example, in the socialisation section children were shown to be generally more socially competent if they had attended daycare, but specifically less competent in certain situations. This fits with more recent research which suggests that day care children exude a 'pseudo social confidence' which is likely a mask for dominance issues and peer attachment (Neufeld and Mate, 2006), rather than genuine social maturity.

Sunderland, Margot (2006), The Science of Parenting, Penguin Group, New York.

Focussing on brain research this book looks at the crucial role of parents and their relationship to their child for healthy brain development. This book alludes to what some psychologists are calling the 'sleeper effect' of childcare. That being that while the negative effects of daycare may not show up immediately in children, they will likely show up latter. The importance of an emotionally aware and attuned alternative caregiver is emphasized.

Cabrera, N.J., Hutchens, R. A book typifying the traditional research into childcare as a support for Peters, H.E. (2006), From Welfare working parents from lower socio economic groups, considering it's costs and benefits to society and families and how much governments to Child Care: What happens to Young Children when mothers should subsidse this. exchange welfare for work, Lawrence Erlbaum Associates, Inc. New Jersey Panksepp, Jaak (1998), Affective Panksepp is a neuroscientist and Professor of Psychology at Washington State Neuroscience: The Foundations University. of Human and Animal Emotions, His work is a study of the brain's emotional operating systems and the Oxford University Press: neuroanatomy of play. Panksepp's research has found that rough and Oxford tumble play, like young mammals engage in, has profound beneficial neural circuitry development. All play activities are not equal when it comes to developing functional emotional states. His research findings are highly relevant for the type of play children need in an early childcare setting and therefore are strongly indicative of 'quality'. Dr. Greenspan, a professor of psychiatry and pediatrics at George Brazelton, T.B and Greenspan, S. Washington University Medical School states, "A warm, loving human (2000). The Irreducible Needs of relationship is very important for intellectual development. Children form their Children. Perseus Publishing, USA capacity to think and self-image based on these back-and-forth interactions. Fewer of these are happening, because families are so busy and more care is being done outside the home. Studies [show] that for all ages, 85 percent of day care is not high quality."

Greenblatt, Bernard, (1977),
Responsibility for Child Care,
Jossey-Bass Publishers, San
Francisco

Presents research findings that identify that neural benefits of secure attachment. When children are securely attached they exhibit nine prefrontal cortex functions (prefrontal cortex is the executive centre of the brain). The nine proven functions are: 1) body regulation, 2) attuned communication, 3) emotional balance, 4) response flexibility, 5) fear modulation, 6) empathy, 7) insight, 8) moral awareness, 9) intuition. They are really a summary of the outcomes we want for our New Zealand children and Siegel's research has found they come through creating secure attachments with children.

Neufeld, G and Mate, G. (2006), Hold On To Your Kids: why parents need to matter more than Peers. Random House, Canada A book that "joins the dots" between neuroscience, attachment and developmental research giving a thorough picture of the 'why' behind our increasing teen and childhood challenges as a society. Laying the cause of these ills firmly in 'attachment' roots, Drs Neufeld and Mate state their case for increased parental involvement in terms of both time and attunement, calling attention to the fact that todays children spend less time with their parents and more time with peers than ever before.

Porges, S (2011). The Polyvagal
Theory. W.W. Norton &
Company. New York

Porges is Professor of Psychiatry and Bioengineering and Director of the Brain Body Center, University of Illinois.

The Polyvagal Theory provides some profound understandings for early childcare settings. Porges research has found there are three neural hierarchical systems that are activated by a process he terms neuroception. The child's brain is constantly scanning its environment for threats and danger. Neuroception, usually outside of conscious awareness, is the process how the brain assess potential risks. If it perceives there is no threat it activates the child's social engagement system so the child feels safe and will engage socially and emotionally with others. But if the brain perceives a risk the child's sympathetic nervous system takes control and activates a fight/flight response. If that doesn't help the child to feel safe, the brain recruits the third hierarchical stage he terms immobilisation. - the child emotionally and often physically shuts down. Porges' research has also identified bodily interventions that calm an aroused amygdala (fear centre of brain). From my clinical experience working within early childcare settings, many children presenting with misbehaviours are alarmed children exhibiting a fight/flight reaction to too much attachment separation. It's these experiences that have provided the catalyst for my research study.

Stern, D (1985). The
Interpersonal World of the Infant.

Stern's significant contribution to research is his findings on how early maternal affective interactions create a sense of bonding for her child. A mother's emotional attunement with her baby, like synchrony, is what builds emotional bonds for her child. Stern found that mothers who can emotionally attune with their child's emotional state create a bonding state with her child. The child experiences diverse emotional states, but the bonded mother keeps in synchrony with her child, reflecting and leading her child through a process of engagement, disengagement, followed by reengagement. This sequential process builds strong emotional bonds. With video technology more recent researchers have been able to identify how these engagement, disengagement states work. Schore has a good summary of this research that has built on Stern's original work. If children are away from their mother for the bulk of their waking time, the question needs to be asked, "how and when are these emotional bonds being built?"

Siegel, D.J. (2010), Mindsight: The

New Science of Personal

Transformation, Bantam Books,

New York

Siegel is clinical professor of psychiatry at UCLA.

Presents research findings that identify that neural benefits of secure attachment. When children are securely attached they exhibit nine prefrontal cortex functions (prefrontal cortex is the executive centre of the brain). The nine proven functions are: 1) body regulation, 2) attuned communication, 3) emotional balance, 4) response flexibility, 5) fear modulation, 6) empathy, 7) insight, 8) moral awareness, 9) intuition. They are really a summary of the outcomes we want for our New Zealand children and Siegel's research has found they come through creating secure attachments with children.

### Websites

A collection of useful websites that influenced my thinking are:

Website	Summary of Significance
www.neufeldinstitute.com	A world leader in early childhood developmental and neuroscientific
	insights. I am a member of the Neufeld Campus and their material is
	current and up-to-date regarding issues such as separation anxiety,
	alarm, aggression, frustration, pursuit, dry eyed syndromes in children
	to name a few. Grounded in Attachment theory, the Neufeld Institute
	works on the premise that the foundation of much of societies ills
	today are from early parent-child separation. Full time, institutionalised
	childcare is probably the number one venue in which this separation
	occurs. While Dr Neufeld and his team do not blame Early Childhood
	Education centres for these problems, they point instead to the
	overuse of these settings by parents and that this, therefore results in
	separation anxieties in children. So the Early Childhood Centres are
	not 'causal' of the problem, but their availability and their self and
	government promotion as 'excellent' places for children to be has
	created an unawareness in parents about their personal importance to
	their child's emotional wellbeing, in effect it has led to parents
	physically and emotionally giving away part of their job that is very
	important.
www.edlibertywatch.org	A lobby group in the USA aimed at keeping minimal government
	interference in the lives of American citizens they dedicate themselves
	to critiquing literature that supports increased government
	intervention. As such they have researched and criticized the key early
	childhood projects upon which New Zealand Early Childhood
	ideologies are founded. Their thorough investigation into the Perry
	Preschool Project, Head Start, Reading First, Chino, Alhambra, High
	Scope, Carolina Abecedarian Project, draws some interesting and
	thought provoking criticisms of the research findings and
	methodologies that are well worth considering. Thoroughly useful site
	as it sums up the key concerns succinctly.

www.goldwaterinstitute.org  Another USA lobby group which has, in a 43 page report, summarised and critiqued the research showing benefits of early childhood education and points out the flaws, weaknesses and leaps of assumption in some of the most often cited studies.  www.educationcounts.govt.nz  A government website providing statistical information on early childhood services, usage, government expenditure and training. Useful for data needed for the research.  www.nzcer.org.nz  A thoroughly interesting New Zealand based educational research organisation that has undertaken a number of early childhood research projects, mostly published in "Early Childhood Folio" (which is difficult to access as it's not 'online'. A very useful site for helping to find New Zealand based research.  www.minedu.govt.nz/  A useful Ministry of Education page which points users in the direction of current research in the area of Education. Good for links to otherwise unknown sources.  www.taskforce.ece.govt.nz  The online access to the 2011 government taskforce on early childhood education in New Zealand. I have commented on this report, "Amazing Children" elsewhere in this paper. To summarise, it has received a lot of criticism from a wide field.  www.occ.org.nz  The Children's Commission website which documents a number of research articles pertinent to early childhood and the needs and welfare of children. With specific regard to the 2011 report, "Through their Lens" by John Angus. Comments on this report can be found elsewhere in this paper. It is a well documented and thoroughly detailed report, just falling short of stating what is needed strongly		
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#### www.childforum.com

A New Zealand website led by Early Childhood Professionals and Academics dedicated to providing up-to-date research commentary on all issues relating to preschool children. Of particular interest to me was their scathing review of the ECE Taskforce (2011). Further this site was extremely useful in listing specific masters and doctoral thesis and other research related to early childhood education in New Zealand while providing interesting commentary on current early childhood situations.

### Conclusion:

The available literature is wide, varied and complex. There is a significant lack of robust, quality research and research articles commonly conflict with one another, one researcher saying, for example, that childcare children are more aggressive and less social, but others saying they have better social skills and have no more aggression than others. Meta-analysis of similar data have concluded with conflicting results. It appears that the conclusions researchers come to are strongly linked to the initial bias and prejudice of the author or to the financier of the research. I have struggled with these apparent biases in the reviews, articles and research documents. It has been challenging to find research that is not conducted with an agenda in mind, be it the religious right of North America or the Feminist left or somewhere in between. Finding articles that are written objectively with a 'blank slate' approach, or even just with the child's best interests in mind (as opposed to considering taxation gains from women in work for example), has been very difficult for me. My initial approach to this research question was not from a religious or moralistic framework, but rather as a response to the increasing problems I see presenting themselves in children in early childhood settings. I had no intention of getting into an ideological debate on the role of mothers or the nature of family. I simply wanted to find out if what we are promoting through early childhood education is in the best interests of children.

This research bias is disappointing and problematic with few objective reports available for review. Further complicating the review, terminology for early childhood education is used without consistent definitions (e.g. preschool, day care, childcare, early childhood education, kindergarten) which significantly reduces the ability of the reader to compare, contrast and critique the studies, articles and books. Childcare can be full time, part time, for 3 - 5 years only or from birth. It can be in the home of a caregiver, in a large scale institutionalized centre, parent led or teacher led. It can involve the whole world of the child (heath & dental care, parent education, social welfare services, home visitation) or it can simply be institutionally based. Even the word "quality" has varying definitions and is therefore useless as a descriptor. It is these types of variables that have made the research so conflicting in it's results and so unscientific and open to cynicism.

However, the genesis of neuroscience as an explanation and engine of maturation and developmental growth in early childhood is robust, scientific and lacks the problematic pseudo-research characteristics that are so typical in early childhood research. This research has given a whole new set of eyes to those who wish to consider what is in the best interests of children in these early years. Only limited research conducted in the last seven years or so contain suitable reference to or acknowledgement of neuroscience and attachment findings. Neuroscience is a relatively new participant in the early childhood debate and given its scientific basis and it's MRI imaging evidence it is growing in the importance that it lends to the topic. Generally speaking, research and articles that take note of what neuroscience is telling us are recommending that Early Childhood Education is not suitable for children under three years of age. With this in mind, Western civilisation needs to rethink how we will care for our under three's and at what cost - financially, socially, and ethically.

There is a significant confusion in New Zealand society about what form childcare is good for children and what childcare is bad for children.

My own experience as a Parent and Teacher Consultant in Early Childhood Centres tells me that something must be done to alert parents, government agencies and centres themselves to the recognition that childcare is not an undisputed merit good to New Zealand society and that there are some real harms that may be happening that we must grapple with, measure, consider and do our best to overcome.

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### Research restrictions and definitions:

### Definition "Childcare"

Full time care is defined as 30+ hours per week in non-parental, professional, institutionalized preschool environment.