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A grounded theory investigation into the philosophical and pedagogical theories of play by blind and visually impaired children.

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Introduction

• This article presents a grounded theory investigation on cognitive and emotional development of blind and visually impaired children.

• It focuses on three themes in relation to play and creativity:
  – Academic
  – Social
  – Cultural

• Data is analysed through:
  – The epistemological model of disability
  – The notion of passive exclusion from cultural activities through institutional policy and practice

• The study is inspired by my early research on pedagogy for the blind, focusing on art education (Hayhoe, 2008a, 2008b, 2012)
Epistemological Model

• The epistemological model is based on three core ideas of the causes of exclusion:
  – exclusion is founded on the processes of knowledge creation
    • stereotype people’s impairments and behaviour
  – knowledge is influenced by the social and cultural biases of authors
  – social and cultural unevenness in the theories of impairments and disability
    • In terms of blindness, knowledge on touch was derived from pedagogies influenced by a philosophy of enlightenment from the 17th and 18th centuries (Hayhoe, 2008a, 2013b)
The Epistemological Model on the Back of Cigarette Packet

\[ \text{Int Ps} \rightarrow (\text{Kn} > \text{Im}) \rightarrow \text{Ds Pc & Ps Ex} \]

Int Ps = Intellectual Process
Kn = Knowledge about impairment
Im = Impairment, e.g. blindness or deafness
Ds Pc = Disabling Process
Ps Ex = Passive Exclusion
Exclusion: Active Exclusion

Three observable forms of active exclusion:

1. Violent and aggressive acts, such as eugenics (Pfeiffer, 1994; Reinders, 2008; Tilley, Walmsley, Earle & Atkinson, 2012, Barnes & Mercer, 2003)

2. Segregation, analogous to oppression based on race, class or gender (Smith, 2001; Valeo, 2009; Oliver, 2001, 2013).

3. Marginalisation, observed in the openly expressed belief in the inferiority people with impairments, as distasteful and deviant to social norms (Hehir, 2002)
Exclusion: Passive Exclusion

• Passive exclusion is opposed to active exclusion and is observable in academic attitudes to disability
• It homogenises an idea of impairments as disability, and has two forms:
  1. Authoritarian struggles that have an effect on our attitudes towards types of impairment (Hayhoe, 2008a, 2012, 2013b)
  2. Changing of knowledge of impairments changes in different environmental, cultural and historical contexts (Hayhoe, 2012, 2013b)
Grounded Methodology (Hayhoe, 2012)

- **Open coding:**
  - Choosing characters and creating initial plot lines

- **Axial coding:**
  - Developing plot lines and developing relationships between characters

- **Selective coding:**
  - Finishing the story and connecting plot lines
Data Collection Methods

- In common with the epistemological model, the focus was on the pedagogical theories and those that create them.
- **Primary literature:**
  - Academic articles
  - Text books
  - Research reports
- **Secondary literature:**
  - School reports and brochures
  - Magazine and newspaper articles
  - Witness accounts by blind people – where available
Observations on the anomalies in play, pedagogies and blindness

OPEN CODING FINDINGS
Epistemological Anomalies

• The majority of blind people, in modern Britain for example (Access Economics, 2009), still have visual experience
• Hayhoe (2008b, 2013a, 2013c, 2014) finds that blind people with visual experience like to exercise their vision and can show preference for visual artefacts over tactile objects
• Early pedagogies fell into national and religious categories, and were restricted to separate institutions
• The assumptions on blindness amongst early pedagogsists in particular related to philosophies from the C17th & C18th – particularly those of Locke, Berkeley and Diderot (Hayhoe, 2008a, 2013a,)
  – Discussed touch and audible sources as play media and environment – assuming this was the main perception
  – Speculation based on perception related to intelligence and morality
  – Philosophical speculation continued until the end of the C20th
Molyneux’s Question to Locke

A man being born blind and having a globe and a cube, nigh of the same bigness, committed into his hand, and being taught or told, which is called the globe and which the cube, so as easily to distinguish them by touch or feeling; then both things taken from him, and laid on a table. Let us suppose his sight restored to him; whether he could, by his sight, and before he touch them, know which is the globe and which the cube? So whether he could not reach them though they were removed 20 or 1000 feet from him?

MS, Locke c16 ff. 92-93 Letter from Molyneux (William) to the authors of the Bibliotheque Universelle, 7 July 1688. Reproduced from the correspondence of John Locke, the John Locke Collection, Bodleian Library, Oxford University
The development of a philosophy of *Perceptualism*

**AXIAL CODING**
Initial Pedagogical Movement: Blindness and Deficit

• In the middle of the C18th Diderot (2001) proposed that blind people had abilities with their hands and through music in particular, a point later developed by Demodocus (1774) and Hauy (1889)

_The most important view, therefore, which we can entertain in the education of the person deprived of sight, is to redress, as effectually as possible, the natural disadvantages with which he (sic.) is encumbered; or, in other words, to enlarge as far as possible his sphere of knowledge and activity. This can only be done by the improvement of his intellectual imagination and mechanical powers, and which of these ought to be most assiduously cultivated, the genius of every individual alone can determine..._

_That if one sense should be suppressed, it but retires into the rest._ (Diderot, 2001: P. 676)
## Classification of Pedagogies in the Original European Institutions (Hayhoe, 2008a)

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<th>French</th>
<th>British</th>
<th>Austrian</th>
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<tr>
<td><strong>Product</strong></td>
<td>Knowledge</td>
<td>Capital/Handcrafts</td>
<td>Emotional Development</td>
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<td><strong>Process</strong></td>
<td>Route Literature</td>
<td>Mechanical Production</td>
<td>“Aesthetic” hand usage</td>
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<td><strong>Motivation</strong></td>
<td>Morality</td>
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<td><strong>Inspiration</strong></td>
<td>Catholicism</td>
<td>Protestantism</td>
<td>Catholicism</td>
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<td><strong>Outcome</strong></td>
<td>Financial weakness</td>
<td>Financial survival</td>
<td>Financial expedience</td>
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<td><strong>Funding</strong></td>
<td>State/Royal Patronage/Charity</td>
<td>Charity</td>
<td>State/Royal Patronage</td>
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Perceptualism: A Pedagogy of Play & Morality

• Early studies referred to the Christian moral aspects of play and creativity
  – There was a often an assumption that blind people
    • Had no visual experience
    • Were less capable of play and creativity
• Touch was revered as the main influence
• Earliest asylums (Britain & France) dissuaded children from creative play, although in Britain there was hand work
  – All early education prized morality developed either through vocational handwork, the bible, literature or religious music
• Assumed that blind people were a homogenous group
English & Scottish Approaches to Handwork – Vocational Handwork

"Then view you pensive, interesting group,
Hard is their lot,- with poverty they stoop,
The shades of darkness on their eyelids dwell,
They know not how to chase the mystic spell.

View nature's soul! doth not that god of day!
Pour in delight upon the visual ray?- View Flora's beauties in their gay attire,
Say, do not these a secret joy inspire?

The charms of nature, and the works of art,
To different minds their various joys impart;
Save where the darken'd optics ne'er could learn,
Objects of arts, or nature to discern.

This night of nature striving to illume
By their honest toil, to cheer this visual gloom,
Fair Charity with kind, unwearied hand,
Supports the cause of virtue's chosen band.

Their aim is blessings on the blind to pour,
Make useful that, which useless was before;
Yes, charity will flow the useful grain;
And cheerful, industry each good obtain."

The New Austrian Movement of Creative Handwork & Morality

• In Austria during the early C19th, Klein, a devote Catholic, was influenced by Hauy, but felt a different form of handwork was needed for moral reasons

• In 1836, for example, Klein stated:

“[The] blind person who cannot be stimulated by vision and who is thus used to gaining pleasure from feeling objects is more liable than others to involve himself in the vice of masturbation that weakens the body and soul. Exercise and occupation can prevent this most effectively” (Klein, 1971)
Klein’s Proposal for Symbolic Play and Interaction With the Environment

“Wooden animals and similar play things he will enjoy no less than any other children and at the same time he will exercise his hands while playing with them...

Once a blind child can walk, he will soon point out by himself what needs to be done to cultivate his mind. He will observe by touch all objects in his environment and like seeing children will ask many questions about them.” (Klein, 1971)
The Normal School, founded by Armitage, a British surgeon who became blind, studied in Austria, and later founded the RNIB, the normal college tried to “normalise” blind children.

Although children engaged in vocational handwork and music to develop a career after their education, they were given opportunity to play:

“I have known a blind child who constructed mountain ranges, mud forts, cottages - in fact, a whole village, with a church, shops, and ordinary houses; even modelled men and women, invited them to a party, and then to mud pie and cakes.”

Klein’s Pedagogy at the Normal School

world, and how, when they were having their feed at the inn, this rapt admirer rang the bell of the machine, to the delight of a crowd of enthusiastic onlookers.

Other forms of outdoor amusement and recreation to be seen at the College are swinging, running, skittles, and the rocking-boat. Ingenuity is the characteristic of everything we examine. How, for instance, can the blind play skittles, you may well ask? Thus: The men are placed at the end of a long platform, and are prevented from rolling away by a cord which passes through a hole in the board and holds them where they fall. The ball having rolled to the end of the platform, drops over on to a slope, and returns to the players.

So much for what Dr. Campbell properly regards as the generation of the motive themselves, is one of the delights of their lives.

Play Through Symbols & Environments

• In the early 20th Century British and American museum courses developed object based exploration through touch (Charlton-Deas, 1914)
• This theme continued later into the C20th, through schools for the blind

“[Handcrafts] should take the form of the expression of the child's own ideas. If handwork is the outcome of a project such as "the home," "the garden," "Christmas," the child's work will be a purposive fulfilment of his felt needs."

(Joint Committee of the College of Teachers For the Blind & the National Institute For the Blind, 1936)
Modern Assumptions in Toy Design

• Contemporary toy design and play pedagogy has also been based on an assumption of complete lack of sight, and the need for touch – and in the case of deaf-blind children, lack of all sight and hearing (Capozzi, De Prisco, Nasti & Zaccaginino, 2012; O’Bryan, Parvez, Pawluk, 2012)

• That digital games for blind children should be auditory, and have no visual reference (Carvalho, Guerreiro, Duarte, & Carriço, 2012)
SELECTIVE CODING

Testing hypotheses through empirical studies
Selective Coding: Testing Hypotheses

• Hypotheses: Because blind students had a separate pedagogy based on an assumption of their perceptual and cognitive inferiority, their development was found lacking in comparison to sighted children.

• Findings on the structure of research showed that a number of researchers, most prior to C21st, made similar assumptions to those of the early pedagogists, and focused on totally blind students alone (Wills, 1968; Sandler & Wills, 1974; Tröster & Brambring, 1994; Adelson & Fraiberg, 1974; Finn & Fewell, 1994; Skellenger, Rosenblum & Jager, 1997).

• Other studies showed that blind children were only behind in their play development only before intervention or when they had limited language development, speculatively related to a lack of intervention or stimulation from outside sources (Rogow, 1983; Pérez-Pereira & Conti-Ramsden, 2013; Lieberman & MacVicar, 2003; Recchia, 1997; Celeste, 2006, 2007; Zanandrea, 1998; Skellenger & Hill, 1994; Warren, 1994).
Conclusion

• Tactile and auditory play was developed from a tradition based on miss-assumptions and reductions in philosophy and psychology
• Access to multi-modal forms of play that encompass and utilize all of the senses in concert should be favoured for blind and visually impaired children – as indeed it should be for all children
• Individual needs of the blind and visually impaired child should be considered when designing the environment and toys they use for play
• Research on creativity and play for children who are blind and visually impaired needs to emphasise the individual physical, social and cultural needs of the blind and visually impaired child
REFERENCES


