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Fun and the benefits of Sign Supported Big Books in mainstream Indonesian kindergartens

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ABSTRACT
Inclusive kindergarten provision remains relatively rare in Indonesia. This article indicates factors that contribute to this situation (stigmatisation, lack of resources and training) and reports on an approach to begin to address it. Sign Supported Big Books were evaluated in mainstream kindergartens (i.e. classes without children with special educational needs) as a way of enhancing their inclusive affordances. These books used Signalong Indonesia, a keyword signing approach, to support whole class stories with 76 children in five kindergarten classes.

Four classes used books with signs and one used a book without signs as part of their everyday activities. Five teacher interviews suggested that the approach enhanced pupils’ engagement and was enjoyable and fun for pupils and teachers alike. There were also positive effects for children’s story comprehension and sign learning. The findings of this study support the novel position that having a disabled child in a class is not necessary in order to justify using an inclusive keyword signing approach. The implications of these findings are discussed for developing a proactive approach to facilitate inclusive practices in Indonesian kindergartens.

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Introduction

Inclusive education in Indonesia
The development of an inclusive education system across Indonesia is a particularly challenging social project. With a national motto of Bhinneka Tunggal Ika (‘unity in diversity’), Indonesia is the world’s largest archipelagic country with more than 17,524 islands, and a population of over 270 million people who form the world’s most diverse multi-ethnic state. The Indonesian government has made a commitment that all children across the nation will have at least nine years of education (Ramos-Mattoussi and Milligan 2013) and, as part of this commitment, has mandated the creation of inclusive primary schools within each school district (Sunardi et al. 2011). Indonesian schools have been described in terms of three categories mainstream, special

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Mainstream (also called regular) schools typically do not admit children with special educational needs. Traditionally, these children could attend special schools (Sekolah Luar Biasa) that cater for specific disability categories such as physical impairment or deafness. In the last two decades, inclusive schools have developed that aim to accommodate all learners (Aprilia 2017; Sheehy and Budiyanto 2015). The development of these inclusive schools has opened up access to education for children who would previously been excluded from education, most notably those with severe intellectual or communication difficulties (Suwaryani 2008; Budiyanto, Kaye, and Rofiah 2020).

The importance of kindergartens, for children aged between 4 and 6 years of age, in facilitating, and underpinning, a national system of inclusive education has been identified by Indonesian policy makers and educationalists (Ediyanto et al. 2017). However whilst there has been a steady growth of inclusive primary and secondary schools (Budiyanto, Sheehy, and Rofiah 2017), this growth has not been mirrored by kindergarten provision, which remains rare (Poernomo 2016). This apparent deficit in provision is significant given the positive impact that kindergarten and preschool settings can have on children’s development (Jenkins et al. 2018). Kindergartens can also act as sites for initiating an inclusive cultural shift (Raičević 2020).

**Inclusive Indonesian Classrooms project**

The Inclusive Indonesian Classrooms project is an ongoing collaboration between Universitas Negeri Surabaya (UNESA, the State University of Surabaya, Indonesia) and the Open University, United Kingdom. It aims to develop teaching approaches and pedagogical strategies that facilitate inclusive teaching and enable positive social and educational outcomes for all learners (Budiyanto, Sheehy, and Rofiah 2017). The project developed a keyword signing (KWS) approach, *Signalong Indonesia (SI)*, to support this aim. It uses manual signs to highlight the keywords in a spoken sentence and, unlike the signed languages of Deaf communities, follows the word order of speech. In this way, it offers a free and accessible way to support full class communication through Bahasa Indonesia (Indonesian Language) (see Budiyanto, Sheehy, and Rofiah 2017, for details). It has become widely used (Budiyanto, Kaye, and Rofiah 2020) and grown through iterative developments in response to teacher feedback and research. These changes have included moving towards an emphasis on a lesson study training approach and embedding *Signalong Indonesia* within UNESA’s teacher training and outreach programmes.

One emerging issue has been the importance of, and challenges in, supporting inclusive practice in kindergartens. Our project has identified three factors that impact upon access to inclusive kindergarten provision:

One factor is the extensive stigmatisation of children with disabilities or special educational needs in Indonesia (Handoyo et al. 2018; Sheehy and Budiyanto 2014), a stigma which can also be applied to those who teach these children (Budiyanto, Kaye, and Rofiah 2020). Part of this stigmatisation is a belief that disabled children in kindergartens, in particular those with learning disabilities, will ‘hinder the development of other normal children’ (Anggia and Harun 2019, 181). This contributes to a situation in which kindergartens will not necessarily admit disabled children and where even designated
inclusive kindergartens will severely limit their acceptance of children with special educational needs or disabilities (Sabila and Kurniawati 2019).

A second factor concerns a lack of research evidence that evaluates the efficacy of ‘practical’ inclusive educational approaches within Indonesian kindergartens, and which might inform the practice of Indonesia educators and teacher trainers (Kristiana and Hendriani 2018).

Thirdly, teachers can feel ill-prepared, and unwilling, to teach children with special educational needs because they have not been specifically trained to teach this group of children (Rix et al. 2013; Sheehy et al. 2017), or feel that they lack the necessary classroom resources to do so (Diana, Gunarhadi, and Yusuf 2020).

These factors combine to create a situation that we have termed the ‘Kindergarten Catch 22’. In the novel Catch 22 (Heller 1961) Heller describes paradoxical situations in which the apparent solution to a problem actually prevents the solution from occurring. Kindergartens might not have any children with special educational needs. Therefore, they do not need to train in inclusive teaching approaches or buy associated resources. When a child with special educational needs applies to the kindergarten, they can be refused because the kindergarten indicates that they do not have the skills or resources to teach them. The paradox is that kindergartens do not train or buy resources because they have no pupils with special educational needs. They have no pupils with special educational needs because they do not have the resources or training. Furthermore, this act of refusal is negatively reinforced. This happens when a particular response removes an unpleasant event or situation. This makes it more likely this response will be repeated in future (Mitchell 2020). In the kindergarten context, the feared ‘damage’ to other children’s education has been prevented, making refusal of entry more likely to occur subsequently. If a child with special educational needs is admitted, the existing classroom practices might not support them, making the child’s ‘inclusion’ more likely to be unsuccessful. Whilst each of these beliefs might be robustly critiqued (Rix 2015), there remains a need for a pragmatic, practical response that can support both children and their teachers. The focus of this paper is the evaluation of a pilot of such an approach. It aimed to pilot a potential proactive approach as the first step in addressing Indonesia’s ‘Kindergarten Catch 22’ situation.

Following discussions with teachers and teacher educators attending the 3rd International Conference on Special Education the notion of getting inclusive teaching approaches established as everyday kindergarten activities was debated i.e. having the resources and practices in place before children with special educational needs applied to enrol. One proposed ‘everyday activity’ was that of storytelling and so we sought to find ways of making this an activity with more inclusive potential.

The project’s working definition of inclusive teaching is something that extends

… what is ordinarily available in the community of the classroom as a way of reducing the need to mark some learners as different. [an approach ] providing rich learning opportunities that are sufficiently made available for everyone, so that all learners are able to participate in classroom life.

(Florian and Black-Hawkins 2011, 826)

The use of ‘Big Books’ appeared to have merit for supporting an inclusive pedagogy. A Big Book is large story book, with large attractive illustrations. Commonly used in early
years settings, they are typically around 34×42 cm. These books can be used to support an
interactive dialogic form of storytelling (Yaacob and Pinter 2008; Lever and Sénéchal
2011), and can be an effective way of gaining the engagement of young learners and
developing their language and comprehension skills (Colville-Hall and O’Connor
2006; Jayendra, Nitiasih, and Mahayanti 2018). The benefits of Signalong Indonesia in
supporting inclusive teaching have been identified in previous research (Budiyanto,
Sheehy, and Rofiah 2017; Jauhari 2017), primarily through allowing all members of
the class to engage with a pedagogy that is social in nature (Sheehy et al. 2009). There
seemed to be a complementarity between the Big Book and Keyword Signing approaches
which we sought to exploit.

There is little research on the use of keyword signing in mainstream classes. One rare
evaluation examined the attitudes of 6-year-old pupils (without special educational
needs) to using Lámh, an Irish keyword signing approach. This study by Bowles and Frizelle
(2016) found that all children had a positive attitude towards using this type of signing
(Bowles and Frizelle 2016). Mistry and Barnes (2012) evaluated the use of Makaton, a UK
keyword sign approach, to support reception class children (approximately 5 years of age),
many of whom had English as an Additional Language (EAL). They found a positive cor-
relation between the use of keyword signing and use of spoken English (Mistry and Barnes
2012). To date, only one study has explored keyword signing together with storytelling,
albeit outside a mainstream setting. This was a small-scale study with three carers, using
Makaton to support multi-sensory stories at an after-school club. It recorded how the
carers used signs with stories over a six-week period. Although this study involved the
Teaching of children with learning disabilities (age 5–10 years) exclusively, it concluded
that storytelling and keyword signing were ‘mutually supportive’ (Bednarski 2016, 23).
Therefore, there seemed to be some indirect evidence to suggest that Signalong Indonesia
could be beneficial to learners in a mainstream class, that it might work well with Big Book
storytelling, and that young children would enjoy using it.

The current study was the first to examine the use of keyword signing to support Big
Book storytelling with mainstream kindergarten children. It sought to gather teachers’
experience of using Sign Supported Big Books (SSBB) in their kindergartens and
examine the effects of this approach on children’s learning.

Method

Participants

Ten schools within the Greater Surabaya area, East Java, were sent details of the project,
which resulted in five female kindergarten teachers (from five schools) volunteering to
take part in the study. The average class size was 15 children, with 76 children in total
taking part.

Ethics

Informed consent was obtained from all teachers and parents of children in each class,
and all data was securely stored. Children are not legally able to give informed consent
until they are 18 years of age and international guidelines concur that children should
therefore give their assent, in addition to the consent of their parents or guardians (Baines 2011). Assent allows young children to take part in research activities from which they might otherwise be excluded (Brady and Shaw 2012). Consequently, although the research was an everyday activity and the type of questions would be familiar to the children, the researchers took care to monitor the children’s ongoing assent. If a child indicated an unwillingness or discomfort the research would stop.

The research was reviewed and given a favourable opinion by the Educational Research Ethics Committee, Fakultas Pendidikan, Universities Negeri Surabaya.

**Materials**

A Big Book storybook was created by the research team. This featured the tale of a boy called Roni, who visits a market to buy eggs and chickens (See Figure 1).

The Big Book format is used in some Indonesian kindergartens where teachers typically adapt books from overseas that are in a non-Indonesian language. In this study, the Big Book’s story and language were created to explicitly reflect situations with which the children would be familiar, namely visiting a local market. Each page of the book consisted of a large illustrative picture on one side, with the story text across the bottom in a large font. The other side of the page contained the story text plus a keyword illustration. In keeping with Signalong Indonesia’s keyword signing method, a single sign was selected for each page of the story. The sentences are very short and each keyword related to the focus of each sentence. This was illustrated on the back of the picture page, so that the teacher could be reminded of it when reading the story (see Figure 2).

**Design**

Four teachers used the Sign Supported book (SSBB) and one teacher used the book alone without sign support (BA), to allow a comparison to be made between the two experiences.
Researchers interviewed the teachers and the children in each class. After the data were collected the teachers attended a ‘debriefing’ workshop to share their experiences and observations with the team.

**Teacher interviews**

The interview approach was semi-structured in nature (Adams and Cox 2008) and conducted in Bahasa Indonesia. The interviews began with four general questions:

- What was your experience of teaching young children using Signalong Indonesia?
- Do you feel this approach changed or influenced the way you teach?
- Do you like using Signalong Indonesia in your teaching?
- Did you find any difficulties in using Signalong Indonesia?

The discussions that arose from these questions were informal and issues raised by the teachers were explored in keeping with a non-directive interview technique. However, a series of prompts were also used (derived from Budiyanto, Sheehy, and Rofiah 2017), if these topics were not raised by teachers. These prompts were:

- What are your suggestions for developing Signalong Indonesia in the future?
- Does Signalong Indonesia make learning [more] fun?

**Figure 2.** A keyword sign on the back of a Big Book story page. The text ‘ini ayah dan roni’ (this is Father and Roni) is supported with the Signalong Indonesia sign ‘Ayah’ (Father).
• Does *Signalong Indonesia* make it easier for students to understand stories?
• Does *Signalong Indonesia* make students remember the contents of the story faster?
• Anything else you would like to say about this experience?

The interviews were analysed using a thematic analysis (McGillicuddy and O’Donnell 2014). Following familiarisation with the interview transcripts, themes were identified through inductive inference and also informed by the existing research and the prompts (deductive analysis) (Fereday and Muir-Cochrane 2006).

**Children’s interviews**

When asking young children questions it is important to have the question structure prepared in advance and to be friendly and attentive to their responses (Cameron 2005). This was the case for this study. A class reading activity and being asked questions about this activity is an established part of the children’s typical classroom experience. This meant that being asked questions about the book activity was a familiar experience for them. One week after their last story session, individual children were asked a series of simple questions related to story comprehension, signing knowledge and enjoyment of the story. The questions were:

**Story comprehension**

• Who buys a chicken?
• What did Ron buy?
• What does Ron do every day?
• What happens at the end of the story?
• How many chicken eggs did Ron buy?

**Sign knowledge**

• What is the sign for chicken?
• What is this? (pointing to Dad)?
• What is the sign for egg?
• What is he doing? (while pointing to ‘eat’)?

**Story experience.**

• Are you happy when your teacher tells this story?
• Does the teacher use a special/funny (story) voice?
• Does the teacher use gestures when telling stories?
• Is the teacher happy when telling stories?

They were asked these questions by two of the research team, who have early years teaching experience and are used to working with kindergarten-age children. No personal identifying information (e.g. name) was collected but their age was noted. The children’s responses to these primarily closed questions were analysed quantitatively.
**Procedure**

Five kindergarten teachers from different schools volunteered to take part in the project. Four teachers attended a half day training session about the use of Big Book stories and *Signalong Indonesia*. Subsequently, one teacher received a training session in using Big Book stories without the *Signalong Indonesia* information. Each teacher used the book in their class for five consecutive days as part of their classes’ typical morning activities. During this week each teacher was observed once to check the fidelity of their implementation of the approach. In the following week, each teacher was interviewed about their experience of using the sign-supported big book. Individual children in each class were asked a series of questions about the story. Five questions related to story comprehension, four questions asked about the signs for specific parts of the story (related to the terms: egg, father, chicken and eat) and other questions asked about their experience of the story and if the teacher made the story fun or used gestures.

**Findings**

**Teacher interviews**

**An enjoyable experience for both teacher and children**

Without exception teachers found using a *Signalong Indonesia* supported storybook a very positive experience. They found it easy to use, enjoyed using it and reported that children enjoyed it also.

- In my experience as a teacher and school principal movements [in] *Signalong Indonesia* is simple so the children can catch easily what I have taught to them
- Pleased with the introduction of *Signalong* [Indonesia] at [my] school
- A new experience for us and our children and very pleasant
- Very interesting, because this is the first time I am familiar with this method
- The teachers felt there were no difficulties implementing the approach.

**It improves children’s engagement**

Teachers reported that the main effects of using SI in this way were that children became more interested in the story, and that their interest was maintained for longer.

- The difference is that children become more enthusiastic and happier with the story because there is movement, cue the story [and it] becomes more interesting
- Children become more interested when we tell stories using the *Signalong* [Indonesia] method

**It makes the story fun, active and improves learning**

All the teachers felt that *Signalong Indonesia* made the story activity more fun.

- For the book itself, it felt like dancing, as well as the pictures
yes with the gesture, learning more fun and children become more active in learning
Of course, with learning to use child body movements so it seems more active
For the kindergarten children I teach, they feel happier with the story
They also emphasised how the activity of SI made learning easier for children, through improved understanding.

yes it easier to understand the story, even if only to see the image, they can read maybe they know the meaning, but for children who cannot read and understand through motion pictures [the signs]
Yes, the presence of Signalong [Indonesia] will facilitate students’ understanding of the vocabulary received

There was a belief that this method helped the children to remember the story and new concepts.

Yes, children can [mimes clicking fingers] remember the story, such as it says “Chicken” then direct the child to remember how to cue “chicken”

It takes time but still makes it [remembering ] easy
Children can capture the contents of the story. Although only partial, they catch it well, [because] children are happy and very excited by the story.
The teacher who did not use Signalong Indonesia enjoyed using the using new resource but saw it as no different from their everyday practice.

**Developing the approach**
Teachers made several suggestions about how the approach could be improved and developed. These suggestions included creating additional and more varied stories, and a story vocabulary guidebook for teachers so they could create their own stories and enhance existing storybook activities. They were also keen that the approach was introduced to other classes and schools and the ‘wider community’.

**Children’s Data**
The four Sign Supported book classes (SSBB) and also the book alone (BA) class group of children reported that their teacher used gestures and funny voices and appeared ‘happy’ [senang/gembira] when telling the story. This was taken as an indication that the Big Books training has been implemented by both groups of teachers, where each of these aspects had been focused upon. This supported the researchers’ observations of teachers using the books as intended.

In terms of the children’s reported happiness, in four SSBB and the one BA classes the majority of children reported they felt happy in the story book activity (100%, 94%, 90%, 100% and 81% respectively). These small differences suggest that significantly more of the SSBB group were likely to report being happy in relation to the story (Chi Square, $p = 0.32$).

In terms of learning Signalong Indonesia signs, as expected, these were only learned by the SSBB group and were correctly demonstrated in responses to the four ‘sign questions’
answers: Chicken, egg, eat and father] by 62%, 62%, 62% and 83% of the children respectively. In relation to the five comprehension questions, these were answered correctly in four SSBB schools by 82%, 92%, 75%, 77% and 79% of the children respectively. In the BA school, these questions were answered correctly by only 5% of children.

Discussion

The findings of this project support previous research which found that children enjoy using keyword signs (Bowles and Frizelle 2016) and that Big Books (without signs) are a successful way of engaging young children with stories (Jayendra, Nitiasih, and Mahayanti 2018). The study goes beyond this existing research to show that Sign Supported Big Books are highly valued and enjoyed by teachers. Teachers’ accounts indicated that the Sign Supported approach made the stories more enjoyable and fun, both for themselves and the children they taught. The enjoyment that teachers and children had with the approach was evident from the interviews and workshop. They expressed a belief that happiness and fun were important and valued the SSBB approach because it was fun. Previous research has identified the significance given to fun and happiness by Indonesian teachers as an intrinsic part of teaching and learning (Budiyanto, Sheehy, and Rofiah 2017; Sheehy and Budiyanto 2015). In contrast, Western educators tend to position happiness as ‘a tool for facilitating effective education’ (Fox Eades, Proctor, & Ashley, 2013, p.1). Fun is not an intrinsic part of good pedagogy but is located at best alongside and separate to achieving educational outcomes (Budiyanto, Sheehy, and Rofiah 2017), and ‘at worst’ it can be positioned as having a detrimental effect. For example, the Centre for Education Economics (CEE) is reported as stating ‘Making lessons fun does not help children to learn… The widely held belief that pupils must be happy in order to do well at school is nothing more than a myth’ (Turner 2018). This view is not universally supported by Western researchers and there is some evidence that “Learning which is enjoyable (fun)..” (Elton-Chalcraft and Mills 2015, 482) is effective. These differences are likely to reflect epistemological beliefs about learning, which vary between countries (Organisation for Economic Co-operation and Development (OCED) 2013), cultures and areas of study (Sheehy 2017). In line with this diversity, the current study adds to evidence that Indonesian teachers may hold views of the relationship between fun, happiness and learning that are different in nature to that typically found Western classrooms. It complements research indicating that many Indonesian teachers see fun and happiness as an integral part of effective pedagogy both for themselves and their learners (Budiyanto, Sheehy, and Rofiah 2017; Sheehy et al. 2017).

Evaluation of keyword signing within kindergartens remains absent, and this study is a first step in exploring this issue. It offers evidence that an approach that increases children’s fun and happiness can enhance children’s learning, at least within the mainstream kindergarten context. The potential of manual signing to have benefits for those who have no additional needs has been acknowledged within popular ‘Baby Signing’ programmes. This approach teaches babies to communicate with keyword signing before they can talk. The benefits claimed for this include improved language and social development, although these claims have been contested (Seal and De Paolis 2014; Doherty-Snoddon 2008). There is some evidence from the children’s data that the SSBB approach
significantly enhanced their learning. However, future research designs should allow for stronger conclusions to be drawn. The kindergarten classes were matched for age, and teachers were trained and monitored to support implementation fidelity. However, the individual developmental and social profiles of the children were not matched or able to be reviewed. It could be that the BA children’s relative (and surprising) lack of learning was influenced by confounding developmental, social or teacher variables, rather than the lack of Sign Support. Therefore, in developing and evaluating the approach further the project will seek to address this issue, for example through a counterbalanced design to control for any individual differences.

With this caveat acknowledged, the study remains significant. It is the first to create and implement Sign Supported Big Books in kindergartens in Indonesia. Teachers positive responses to, and appraisals of, the approach were supported in the children’s data. Teachers were keen to take up this new approach and their suggestion of providing Signalong Indonesia materials to allow them to support storybooks of their own choice will be followed up. This request is important in the context of the project as this suggests that mainstream teachers see pedagogic value in using Signalong Indonesia within their ‘non-special’ mainstream classes. This confirms an assumption of the project was that teachers might welcome the project-created books as useful teaching resources, and this would be the means of getting an inclusive KWS approach into kindergartens. However, whilst teachers did welcome the books, their feedback foregrounded increased access to Signalong Indonesia vocabulary and training, so that they could use it to support their personal choice of books and stories. They saw Signalong Indonesia as a welcome way of enhancing books and stories as opposed being to a ‘special education technique’. This is an important finding given the widespread stigmatisation of children with learning disabilities and signing (Budiyanto, Kaye, and Rofiah 2020). It suggests that a SSBB approach in which teachers select KWS to enhance their own stories is worth pursuing further as a proactive strategy.

The study developed following discussion with teachers about how the Inclusive Indonesian Classrooms project might address three factors that contributed to the ‘Kindergarten Catch 22’. The findings offer some original and useful insights for future work in relation to these factors. The stigmatisation of children with special educational needs has led to the widespread stigmatisation of signing in Indonesia (Budiyanto, Kaye, and Rofiah 2020). The enthusiasm of these mainstream teachers (albeit in a very small sample) to use, and develop, Sign Supported Big Books was a very positive outcome in that it suggests that this way of introducing Signalong Indonesia into kindergartens might be welcomed. However, the current study is based on a small sample of volunteers and their attitudes may not be representative of the wider population. Therefore, a next step for the project will be to offer the approach to a much larger sample of schools and see if this welcome holds more widely. Our findings suggest that Sign Supported Big Books are a practical easily implemented teaching approach, and we found no evidence that this approach was detrimental for children who used it. A next step regarding this issue will be to evaluate the approach in classrooms that also include children with special educational needs and to design the evaluation in a way that more tightly controls for individual differences. This will allow us to assess the degree to which the approach might support all learners within diverse inclusive classes. Lastly, teachers enjoyed and valued using the approach with their mainstream kindergarten classes. The Inclusive
Indonesian classrooms project will need to consider the extent to which this positive experience might influence the willingness of teachers to accept children with special educational needs into their classes.

The project was original in its intention. It attempted to evaluate an inclusive teaching approach as part of the everyday classroom practice and in classes without any children with special educational needs. This was proposed as a proactive way of beginning to address the Indonesian Kindergarten Catch 22 situation. The underpinning stance was that one doesn’t need a disabled child in a class to justify using inclusive classroom practices. The findings of this study support this novel stance.

**Conclusion**

Sign Supported Big Books were evaluated in mainstream kindergarten classes as a possible way of enhancing the inclusive affordances of Indonesian kindergartens. This was the first time this approach had been used in Indonesian kindergartens. The findings suggested that teachers valued the approach and felt that, because it was fun, it enhanced children’s learning. This study suggests that SSBB has the potential for getting around the stigmatisation of signing, offers research evidence about pedagogy where none currently exists and indicates that SSBB has merit as a new teaching resource for kindergartens. The project identifies the potential of creating teaching approaches and resources that are likely to work well for a diverse group of children as a proactive means of addressing the 'Kindergarten Catch 22' which currently exists in Indonesia.

**Disclosure statement**

No potential conflict of interest was reported by the author(s).

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