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## Developing Signalong Indonesia: issues of happiness and pedagogy, training and stigmatisation

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#### How to cite:

Budiyanto; Sheehy, Kieron; Kaye, Helen and Rofiah, Khofidotur (2018). Developing Signalong Indonesia: issues of happiness and pedagogy, training and stigmatisation. *International Journal of Inclusive Education*, 22(5) pp. 543–559.

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Version: Accepted Manuscript

Link(s) to article on publisher's website:

<http://dx.doi.org/doi:10.1080/13603116.2017.1390000>

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This draft was accepted by the International Journal of Inclusive Education, and later published as

Budiyanto, Kieron Sheehy, Helen Kaye & Khofidotur Rofiah (2017): Developing Signalong Indonesia: issues of happiness and pedagogy, training and stigmatisation, International Journal of Inclusive Education,  
DOI: 10.1080/13603116.2017.1390000

### **Developing Signalong Indonesia: Issues of Happiness and Pedagogy, Training and Stigmatisation.**

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#### **Abstract**

Signalong Indonesia, a key word signing approach, was created to support the development of Indonesian inclusive schools. A mixed methods approach collected data about teacher's beliefs and experiences regarding Signalong Indonesia from the first two schools to pilot it. Thirty-two teachers completed questionnaires, followed by interviews with nine teachers. Three themes emerged: understanding the nature of Signalong Indonesia, the stigmatisation of signers and its reporting by teachers, and the nature of happiness in inclusive pedagogy. The latter reveals, for first time, the importance of *Suka* as a culturally mediated intrinsic part of Indonesian inclusive pedagogy. The findings suggest recommendations about Signalong Indonesia materials and training, and indicate a new research area regarding inclusive pedagogies within different cultures.

#### **Keywords**

Key word signing, inclusive pedagogy, happiness, stigmatisation, Indonesia, Signalong Indonesia.

#### **Introduction.**

As part of its commitment to the world-wide Education for All initiative, the Indonesian government aims to give all children a minimum of nine years of education (Ramos-Mattoussi and Milligan 2013). This includes children who previously might have been excluded or segregated (Suwaryani 2008), most notably pupils with severe learning disabilities (Komardjaja 2005). Consequently, there is a legal requirement for each school district to have at least one inclusive primary and one inclusive secondary school (Sunardi et al. 2011). A central issue for these schools concerns how to develop inclusive classroom pedagogy (Sunardi et al. 2011). Whilst the notion of inclusive education is operationalized differently at policy level in different countries (Ainscow 2012), a range of research indicates some characteristics of inclusive classroom pedagogy. At general level such a pedagogy aims to

...extend 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

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made available for everyone, so that all learners are able to participate in classroom life. (Florian and Black-Hawkins 2011, 826).

Outcome-based reviews suggest that a key characteristic of inclusive teaching, producing positive social and educational outcomes for learners, is the use of a pedagogy that is essentially social-constructivist in nature (Ferguson-Patrick 2012). There is evidence to suggest that this perspective concurs with the implicit epistemological beliefs of Indonesian teachers within inclusive schools (Sheehy and Budiyanto 2015). However, this way of teaching can only exist where children are able to access the social interactions that mediate the classroom's curricular activities and resources. Accessing these classroom interactions is a major issue for children with severe and profound learning difficulties (UNESCO 2009) and their peers and teachers. If the classroom's communicative resources are not accessible then these children will remain isolated socially and educationally, experiencing a form of locational integration (Avramidis and Norwich 2002). Enabling communication must therefore be positioned at the heart of inclusive classroom practice. One approach which has the potential to facilitate an inclusive communicative classroom environment is key word signing (KWS).

### *Keyword signing*

KWS uses manual signs to highlight the key words in a spoken sentence and, unlike the signed languages of Deaf communities, follows the word order of speech. KWS approaches have been used to support children with severe learning difficulties in several countries, often with manual signs adopted from those of the respective country's Deaf community. For example, using Irish (Lámh 2008), Flemish (Vandereet et al. 2011) and British (The Makaton Charity 2012) sign languages.

KWS are learned relatively easily (Meuris, Maes, and Zink 2014) and several factors contribute to their accessibility. Signs can be physically modelled and shaped for children (Bryen, Goldman, and Quinlisk-Gill 1988) and their multimodality enhances their comprehension (Sigafos and Drasgow 2001). Their use requires no technologies (Mirenda 2003) and so KWS can easily be part of everyday interactions (Clibbens 2001). Within inclusive classrooms there will be children who do not themselves 'need' KWS, but use it to communicate with their peers. These children typically enjoy learning KWS and are motivated to use it (Mandel and Livingston 1993; Mistry and Barnes 2012). KWS can potentially be used by all pupils and so

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some teachers have seen it as a tool to support inclusive classrooms (Sheehy and Duffy 2009). There is extensive evidence that KWS improves the communication and language development of children with severe learning difficulties, including those without spoken language (Doherty-Sneddon 2008; Dunst and Hamby 2011; Snell et al. 2010; Tan et al. 2014). It can also enhance children's expressive language development (Rudd, Grove, and Pring 2007), stimulate speech development (Millar, Light, and Schlosser 2006; Schlosser and Wendt 2008) and make communication easier for others to understand (Meuris, Maes, and Zink 2014). There is evidence to suggest that the positive effects of KWS are greater than the outcomes from using either a 'signs only' or a purely oral approach (Schlosser and Sigafos 2006).

### *The development of Signalong Indonesia (SI)*

A joint project between the State University of Surabaya, Indonesia and The Open University, United Kingdom, explored the development of KWS for inclusive classrooms. As part of this, teacher workshops and seminars in East Java examined different KWS approaches and chose Signalong UK (Signalong Group, 2012) as a model. Signalong UK has several features which were felt to be beneficial in the Indonesian context. It uses a 'one sign: one concept' approach, where each concept has a discrete sign. (By contrast some KWS approaches use the same sign to indicate more than one concept e.g. for 'bed' and/or 'sleep'). This makes it more accessible for children with severe learning difficulties who experience problems with concept discrimination and generalization. Another distinctive feature is the use of specific describable handshapes for each sign. This ensures the fidelity of signs as they are passed between people, including via text message or telephone, an important issue in a geographically and culturally diverse nation. There were several options for choosing SI's 'donor' signs. Although research studies of sign languages in Indonesia are few (Isma 2012) and the number of sign languages is unknown (Palfreyman 2011), many sign languages and dialects of sign language exist alongside the nations' approximately 726 spoken languages (Lewis, Simons, and Fennig 2015). There are three well known sign languages. Kata Kolok is a unique sign language that is used across the Deaf and hearing community in North Bali. It bears little linguistic relation to spoken Balinese or Indonesian languages (Kortschak and Sitanggang 2010). More widespread is Bahasa Isyarat Indonesia (BISINDO), argued by some as being the natural language of the Indonesian Deaf community (Effendi 2014). In contrast is Sistem Isyarat Bahasa Indonesia (SIBI). This mirrors spoken Bahasa Indonesian language and incorporates concept signs and grammatical markers (e.g. suffixes) and a finger alphabet (Jan, Branson and Miller 2004).

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SIBI is promoted by the Department of Education as the language for teaching Deaf children within special schools. There is an ongoing issue for Kata Kolok and BISINDO users regarding the use of SIBI (Kortschak & Sitanggang, 2010) and the linguistic rights of the Deaf (Jan Branson and Miller 1998). As Signalong Indonesia would be for use in inclusive classrooms, the intention was that all members of the classroom should be able to access it, its use within classes should be as unproblematic as possible, and that it could be used across different provinces. Using an additional natural language such as BISINDO or Kata Kolok could make communication less accessible for teachers and pupils speaking Bahasa Indonesian. A further issue is that BISINDO is 'unstandardised' (Lewis, Simons, and Fennig 2015) and changing (Isma 2012), with different languages being used in different regions (Isma, 2012). Conversely, SIBI's standardised system of complex grammatical markers requires quick signing, manual dexterity and a high level of language comprehension. This would exclude many children with learning disabilities (Bonvillian, Dooley, Emmons, Jack, Kissane, & Loncke 2008) and potentially some Deaf pupils (Effendi 2014). Therefore, the initial (pilot) Signalong Indonesia (SI) vocabulary drew on standardized Signalong UK and (simple) SIBI signs to support key words used in spoken Bahasa Indonesian within classrooms. The SI materials were developed and introduced in initial teacher workshops.

Teachers' beliefs concerning the use of KWS within their schools enables or prevents its successful use (Sheehy and Budiyo 2014). This paper researches this area, using questionnaires and interviews within two inclusive schools in East Java, which volunteered to act as the first 'laboratory schools' for SI. Both had at least one teacher who had taken part in the teacher workshops, and used Signalong Indonesia in at least one classroom. School 1 has both Sekolah Dasar (Primary School) and Sekolah Menengah Pertama (Middle School) sections, with 40% of pupils being identified as having educational needs. School 2 is a Sekolah Menengah Pertama, where approximately 3% of pupils have special educational needs. This wide range fits within the variability identified within inclusive Indonesian schools, which indicates an average of 12% of pupils of pupils having special educational needs (Sunardi et al. 2011). The vast majority of such pupils (85%) have intellectual disabilities (Sunardi et al. 2011), and this is the case for the two pilot schools.

The aim was to gain insights into the beliefs and experiences concerning SI that were present or emerging in these schools, and to use these to inform the further development and implementation strategy of SI. This

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research therefore explored, for the first time, the beliefs and experiences of teachers within the first two schools where SI was being piloted.

### **Method**

A mixed methods approach was adopted because it offers unique insights into the challenges and facilitation of implementing of new educational initiatives (Klingner and Boardman 2011), giving a deeper understanding of educational activities in context than available through other approaches (Klingner and Boardman 2011; Onwuegbuzie 2012). The research used questionnaires, followed by semi-structured interviews grounded in a common context (Harris & Brown, 2010). Semi-structured interviews explored issues arising from the questionnaires in depth, rather than merely illustrating them, with data analysis occurring sequentially followed by an integrative interpretation (Lopez-Fernandez and Molina-Azorín 2011).

The research followed the ethical guidance of British Psychological Society (British Psychological Society, 2010), which included gaining signed informed consent from interviewees, and was approved by the relevant university ethics committees. Research Data was managed in accordance with the Data Protection Act (Alcser, Antoun, Bowers, Clemens, & Lien, 2011).

The questionnaire was exploratory in nature and contained a mixture of 18 closed and open questions (See Appendix 1). However, in keeping with ethical principles (British Psychological Society 2015) only questions which could be justified were asked. Therefore, in the context of understanding beliefs and experiences of KWS age, gender and years of teaching were not examined (see Sheehy and Budiyanto 2015 for a discussion of this issue). Initial questions asked the teachers their occupation (e.g. class teacher, special needs teacher) and if they had attended any Signalong Indonesia (SI) training workshops and/or seen the SI manual (a dictionary of signs). Indonesian teachers can hold differing beliefs about which children should sign (Sheehy and Budiyanto 2014), hence Questions 3 and 4 concerned beliefs about who might benefit from SI. If the participant used signing in their own class they were asked to describe if and how it had changed their classroom practice (Question 6). Conversely, if the teacher did not use signing they were asked about this (Question 9). The stigmatising of signing can be a barrier to its use (Ladd and Lane 2013) and so Questions 11 and 12 considered this. Each school had copies of the pilot SI vocabulary manual within their staffrooms, and Question 7 asked if teachers felt any additional signs were required. New technologies have been used

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to support sign use (Mcknight and Davies 2012), and Questions 14 and 15 related to teachers' ability and willingness to use this support. Research in inclusive Indonesian schools suggested that particular teaching approaches were associated with inclusive classrooms (Sheehy and Budiyanto 2015), informing Question 16. Finally, teachers were asked to share anything they felt relevant regarding the use of signing in their school or their feelings about the use of signing, and anything that should be covered in future any training workshops. The questionnaire was back translated between English and Bahasa Indonesian and revised for clarity. The final questionnaire was presented in Bahasa Indonesian.

Questionnaires, and information and consent forms, were left in the staff rooms of the two inclusive schools in different cities in East Java, along with a collection box, which was collected after one week. In total 32 questionnaires were returned from 57 teachers, giving a return rate of approximately 56 %. The interviews were conducted in Indonesian and English. A translator was present throughout and provided clarification when required and the interviews were recorded and later transcribed for analysis.

### Interview participants

Nine teachers, 3 men and 6 women, from two inclusive schools (2:3 and 1:3 respectively) were interviewed. This included one headteacher (school 2) and one deputy headteacher (school 1). Their ages ranged from 25 to 55 years.

### Interview method

The interview methodology was qualitative in nature and the data were analysed using a thematic analysis (Braun & Clarke, 2006; McGillicuddy & O'Donnell, 2014). Themes were derived from interview transcripts through inferring interpretations of the data (inductive analysis), and also informed by the literature review underpinning the questionnaire (deductive analysis) (Fereday & Muir-Cochrane, 2008). Potential themes were reviewed with reference to both their distinctiveness and their representation of the data as a whole.

The interviews began with two general questions:

How is Signalong Indonesia used in your school?

What do you feel about the use of Signalong Indonesia within your school?

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The discussion was informal and issues by the teachers were explored in line with a non-directive interview technique (Burman, 2001). However, prompts were used, if necessary, to consider key issues which had emerged from the initial questionnaire (indicated below). Interviews lasted between 20-30 minutes.

## Findings

### *Teachers' experiences of Signalong Indonesia*

All questionnaire respondents had seen the SI materials, 29 described themselves as inclusive class teachers and three as 'therapist in inclusive class'. Two teachers from each school had attended SI training workshops. Three teachers indicated that they currently used SI in their class. This included two of the teachers who had attended a training workshop and used it, respectively, with their entire class or with children who could not speak. The teacher who had not attended a training workshop used SI for children in their class who were unable to speak. However, although all these participants had seen the SI materials, the nature of KWS was not being transmitted by them.

All respondents felt that there were children in their school, who could benefit from SI. The open question responses indicated that this was because it was seen as accessible and able to enhance classroom communication. The majority (20) saw it as easy to learn, either because it was 'fun' (10) or simple, being part of everyday class activities' (7). Seven respondents indicated that SI would make classroom communication easier and clearer for the children. All but one owned a smart phone and all of this group wished to use smart phones in class as part of sign-related activities. There were two types of reasons given for why participants did *not* use signing within their own classes. The first related to teachers who would wished to use it, but were prevented by a lack of training.

I don't have the knowledge..very difficult if I don't read more about how to use it.

The big problem is that I haven;t [attended] a training workshop. The training workshop is a very valuable activity that can support using signalong in the future.

we need to be trained in its use... [at a ] workshop

However, the majority of participants gave another reason, that it was not relevant for the children in their particular classes. Whilst all agreed that some children might benefit within their *school*, a clear picture



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emerged about why they themselves would not use SI and, by implication, the children for whom they believed SI would be suitable.

we use verbal communication in our class and no sign language is needed to communicate

[*Because*] our students can say what they think and what they want easily

because we can still use verbal communication

Twenty-six participants expressed this type of belief, including one who had attended a training workshop. The picture that emerged was that teachers felt that because their children had at least some spoken language skills then SI was not needed. This suggests that the purpose of SI is being misunderstood. It was being perceived by teachers, based on their observation and knowledge of the SI materials, as a remedial approach for non-verbal children or children with communication difficulties. The concept that this is a communication approach for an inclusive school, through which for example, *all* pupils and teachers might communicate with each other was not evident.

There was also evidence that keyword signing was seen by some as a signed *language*. Twenty-four questionnaire responses sought advice about signing full sentences and/or the use of conjunctions and adjectives.

yes, we are confused how to make a sentence and use conjunctions

How to make a sentence and use conjunction, adjectives etc?

How do we make sentences, combining all the Signalong signs?

This question was asked by two of four teachers who had attended initial training workshops (but not the teachers using SI in their classes). This suggested that the nature of keyword signing was not being picked up by all workshop participants or from the SI materials within the school. Similarly, in the interviews, several teachers felt SI was a 'language', and that all spoken elements should be signed i.e. as a direct translation of Bahasa Indonesia in fashion synonymous with SIBI. Another belief, expressed in several interviews was that Signalong Indonesia was a 'universal language'. This arose in discussions of its simplicity and ease of understanding and implied beliefs that SI was transparent to all because it used 'obvious' iconic gestures. This belief has been noted in teachers unfamiliar with KWS (Sheehy and Budiyanto 2014), but in this research this belief existed in two schools where KWS (SI) is being used, albeit in relatively few classrooms, where all teachers have seen the SI vocabulary materials.

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These findings have implications for the development of Signalong Indonesia. It is positive that the materials were seen by all the teachers. However, their current format consisting of an introductory text and then a dictionary of isolated signs, appears to miss the opportunity to sufficiently convey the nature and purpose of SI. A straightforward way to address this might be to give more illustrated examples within the dictionary of SI supporting spoken communication in particular contexts, and a short series of FAQs derived from issues revealed in this research. This would benefit the ‘casual’ reader whose background knowledge of KWS is shaped by media debates concerning BISINDO and SIBI.

The development of Signalong Indonesia involved teachers from different schools across Indonesia. This was beneficial in terms of gaining feedback and expertise from a diverse audience on vocabulary and contexts. These individual teachers then returned to their schools, along with SI vocabulary materials, after attending workshops. Unintentionally this approach could be seen as constructing a specialist ‘remedial’ approach (Clough and Barton 1995) for the subsequent implementation of Signalong Indonesia within schools. This research suggests that there is a risk of the ‘signing teacher’ being assigned to distinct ‘inclusive classes’, with SI not being transferred to other classes or across school activities. Furthermore, the ‘signing teachers’ may hold different views about which children within their classes should sign (e.g. all the class or only a particular ‘type’ of child), consequently limiting children’s access to SI. If the potential of SI to support inclusive education is to be realized then training and support should be focused towards this end. The model of training needs to be different to the ‘withdraw and return’ model used in the development of the approach itself. This highlights a priority for the project in considering alternative models of initial and in-service training (Florian and Rouse 2009; Bradshaw, Twining, and Walsh 2012) and issues of attitude change within diverse cultures and classrooms (UNESCO 2014).

### *Stigmatisation: Perhaps Here, Definitely Elsewhere.*

Although only one questionnaire participant felt that society stigmatised signers, 31% indicated that they had colleagues in their school who saw signing as stigmatising children. This belief was expressed approximately equally in each of the two schools. In the interviews teachers produced contrasting opinions regarding the issue of stigmatisation in their locality.

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there is a lot of prejudice against children with special needs who sign..people are always telling them off rather than giving them support. [School 2, Teacher 2]

To my knowledge, students with special needs are warmly welcomed in this area.  
[School 2, Teacher 1]

In public, people generally accept their condition. [School 1, Teacher 1]

One teacher described how colleagues had tried to dissuade him from working with children with special educational needs because it would damage his status as a professional. Signing by association was, he felt, stigmatised by association with this group of children. In both schools nearly all the pupils with special educational needs would be identified as having intellectual disabilities. The group has been identified as being 'the most stigmatized' (Komardjaja, 2005, p117) in Indonesia society. This is likely to be a significant factor in the 'stigmatisation by association' that this teacher suggests.

There was a broader agreement amongst interviewees that stigmatisation existed 'elsewhere' in the country.

..in certain areas, maybe in remote areas, some people are still ashamed of having children with special needs. Parents keep their children at home. They feel ashamed. They don't want to get the children to know their neighbors. But, it does not happen here. It depends on the culture or family background [School 2, Teacher 3]

Interviewees consistently suggested that children's 'difference' (through signing) was not an issue within classes and that therefore relationships between peers was supportive.

They never hurt each other, they're never bullying, they never judge their friends and most of them are helping. For example there is a student who can read something and want to buy something in the canteen and the other student will help them to write what they want.  
[School 2, Teacher 1]

able-bodied peers willingly help students with disabilities. Students with special needs make friends with regular students. [School 1, Teacher 3]

Able-bodied peers never insult students with special needs. They don't bully such students.  
[School 1, Teacher 5]

There is not necessarily a simple link between social stigmatisation and bullying of disabled children within schools. Nevertheless, the interviewees accounts of a 'absence' of bullying was surprising, given the high

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frequency of school bullying reported in Indonesian media (No Bullying.com. 2015) and national research (Fataruba 2015; United Nations Children's Fund 2012).

Although in Bahasa Indonesia there is no direct translation for the term 'stigmatisation' (Lusli et al. 2015), the general meaning of a negative label was commonly understood. The anonymous questionnaire suggested a picture in which society (which here referred to formal government policies and practices) did not stigmatise but where stigmatisation was relatively common amongst teachers' own colleagues. By contrast in the interviews stigmatisation was largely reported as not existing within the schools, possibly in the locality (one interviewee) but more often existing 'further away'.

It is common for questionnaires and interviews to produce different outcomes when researching inclusive education (Komardjaja 2005; Kurniawati et al. 2012). However, the questionnaire results seem to support other Indonesian research regarding teachers' attitudes (Tucker 2013; Kurniawati 2014) and beliefs that signing stigmatises children (Sheehy and Budiyanto 2014). There is evidence that Indonesian pupils have a widespread fear of reporting harassment or bullying (United Nations Children's Fund 2012), which may reflect a culture of downplaying these matters. This might imply that the interview participants may also have felt constrained in their responses and how they represented their schools during the recorded face to face interviews. This is a particularly sensitive issue in schools striving to be, and be seen as, inclusive. This suggests that if we are to develop our understanding of stigmatisation and its effects on schools and KWS, then the advantages of different research methods need to be considered. Whilst less flexible than interviews the anonymity of questionnaires, or vignettes approaches (Scior 2011), may facilitate teachers in commenting on sensitive issues regarding their own schools. Alternatively, future research might utilize ethnographic and participant observations to gain deeper insights into sensitive issues within pilot schools (Grimes 2013). Children's experiences, and beliefs about SI are currently absent from the research literature. They would be valuable in their own right in developing the approach (Kristien Meuris et al., 2014) and also provide an alternative insider perspective on the issue of stigmatisation.

### *The nature of happiness in inclusive pedagogy.*

The relationship between happiness and learning arose in many interviews as an essential feature of (inclusive) classroom pedagogy. However, this issue required considerable discussion for the English language researchers to comprehend the concepts that teachers were describing and their intended meanings. The

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teachers used two terms in referring to happiness *Senang* and *Suka*, the former being a general term for individualised happiness and the latter focusing on an ‘networked’ emotion which is part of social interaction.

[The key thing is that] they learned together [*our emphasis*] using Signalong. ..has made the learning moment, learning process be more enjoyable. .. [SI makes] it is easy for disabled and non-disabled students to learn together...This is the point  
[School 1, Teacher, 3]

.. if I use Signalong to teach in every child it's more fun and joyful for the children [School 2, Teacher 2]

If they give happiness to the students they will receive the lesson more easily, they will remember easily what the teacher gives to them [School 1, Teacher 4]

The students felt happier...So, it is very good even when it is used by able-bodied students...[School 2, Teacher 4]

In the above points the teachers used *Suka* to describe the happiness experienced by children. SI potentially could ‘allow’ teachers to teach an inclusive class, and this created a happy socially engaged atmosphere. This happiness was not seen a peripheral effect but as a central feature of an effective inclusive classroom. For others the ‘joy’ occurred because SI made the learning demands of the classroom more accessible and this was referred to using the term *Senang*, a more general term used in the interviews to indicate an ‘individual happiness’.

Signalong maybe is more joyful because sometimes we learn science, they think it's difficult to learn science but if I make the science with Signalong they are very joyful in any science study with me [School 1, Teacher 1]

My motivation is first to help the students to understand and secondly to make them happy to learn. ..When we use signs the students learn quickly... We don't need to use lot of words..[a single sign ] and they will understand [the key concept] [School 2, Teacher 4]

and enjoy,... just do the symbol and they understand what the teacher's saying. [School 2, Teacher 3]

This effect was seen as having consequences for the teachers themselves.

So Signalong is really interesting for them and teaching Signalong makes them happy, .. so it makes the teacher more motivated to teach more, make them happy [School 1, Teacher 3]

If teachers are motivated, this will motivate the students... Togetherness arises in learning...All are happy [School 2, Teacher 1]

and supported a notion of all children learning together.

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All should sign..-Yes it's really helpful because of the mixing in the class [*between children with special educational needs and their peers*],. So they will more respect each other, empathy, .. more respectful. [School 1, Teacher 2].

However, it must be borne in mind that these positive effects were being suggested largely by teachers who had not necessarily used Signalong Indonesia but only observed its use within their schools. Teachers could indicate these positive effects for inclusive classes within their school but see this as relevant only for those specific classes (and not their own) or individual children.

Happiness is an established topic in researching experiences of inclusion and segregation in western education (Cook, Swain, and French 2001) and children's wellbeing research encompasses the relationship between subjective happiness and academic performance (Uusitalo-Malmivaara 2011; Cuñado and de Gracia 2012). However, "Although there have been many studies investigating happiness [*as a*] dimension in Western societies, relatively is known about it in the Eastern societies" (Jaafar et al. 2012). There are cultural differences in the conceptualisations and definitions of happiness, with a Western notion emphasizing individualism in contrast to collectivist cultures that foreground "harmonious relationships with other members of society" (Jaafar et al. 2012, p550). The teachers we interviewed were not always referring to an 'individualized' happiness, which characterizes Western research. This resulted in considerable, unexpected, discussion with the teachers and within our international research team to understand each other's perspectives. Whilst at a general level categories of emotions are similar across cultures, fine-grained distinctions are made for subcategories of emotions. The Indonesian language has a greater (than English) degree of referring to emotions in social rather than individualistic terms (Shaver, Murdaya, and Fraley 2001). Consequently, the Indonesian language's emotional lexicon regarding happiness has nuances that are different from, and more social in nature than, European English (Shaver et al., 2001). Our interviewees described a relationship between happiness and pedagogy that was markedly different to that encountered in Western educational literature. Western educators have suggested that happiness can be a 'a tool for facilitating effective education'(Fox Eades, Proctor, and Ashley 2013), seeing happiness promoted '*alongside*' educational excellence (Fox Eades et al., 2013). In contrast, the teachers' discussions of pedagogy described social emotional networks within which learning arose and existed. Learning was not seen as separate from this emotional enmeshment, but part of it. It did not happen '*alongside*' happiness.

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No research to date has identified or explored the Indonesian conceptualisation of the relationship between happiness and inclusive pedagogy. More broadly, research specifically looking at the nature of happiness within inclusive pedagogy is absent, possibly because of a Western conceptualisation of the relationship between emotions and learning. This area could be explored further if framed by a Vygotskian perspective, which argues against a dualistic view of emotion and learning (Mesquita 2012), to create a common conceptual framework to help researchers from Indonesia and Europe work together.

The research gained insights into teachers' beliefs and experience in the pilot schools. These suggested several, interacting, factors that need to be considered in developing and implementing Signalong Indonesia further. There is a need to review the 'withdraw and return' model of training. The new approach should explicitly address the issue of stigmatisation and develop an overall approach to address this issue within schools. The purpose and nature of SI needs to be foregrounded and made more explicit within the materials provided for schools. The interplay between beliefs about SI, stigmatisation and the type of training activities should be researched to support ongoing development. This would help understand, and address, the situation where teachers hold positive attitudes towards Signalong Indonesia, yet do not use it themselves. Neither of these schools used alternative augmentative communication programmes, such as PECS (Bondy 2012) or TEACCH (Panerai, Ferrante, and Zingale 2002). A future area for research will be to explore how SI might interact, and be used with, any existing communication and language programmes used within other schools.

## Conclusion

There is evidence that keyword signing is being used in some Asian countries (The Makaton Charity 2012; Signalong Group 2012). However research into the use of keyword signing in schools is lacking. This research gathered data for the first time from schools where Signalong Indonesia was being piloted. The findings suggest that a new model of teacher training is needed, along with revised classroom materials, if the approach is to support inclusive practices within schools rather than developing isolated 'signing teachers'. The current research suggests that the issue of stigmatisation may be significant even within inclusive schools, and that the selection of research methods is particularly important in accessing teachers' beliefs about, and experiences of, this issue.

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This research highlights, for the first time, that the pedagogy within inclusive Indonesian schools may have a different underpinning conceptualization to that noted in Western research. This has implications for future research within the field of inclusive education, in understanding and developing pedagogies that are Indonesian in nature. It also delineates a new research area that seeks to understand the relationship between happiness and inclusive pedagogy in Indonesian and other cultures.

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