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Introduction

The MacArthur-Bates Communicative Development Inventory (CDI) Advisory Board (listed below) is gratified by the research and clinical usefulness of the CDI instruments, and the interest of language researchers and clinicians around the world in developing adaptations for their language. In some languages, such as English, the CDI has added a tool with distinctive advantages for certain purposes; in a number of other languages, it has been the first standardized and normed measure of language development, providing a foundation for future work.

In February, 2010, the CDI Advisory Board initiated a project to survey all known, authorized CDI adaptations, to determine their status and make the information available broadly. This report provides a summary of that survey, as of July, 2011. It will also be made available on the CDI website, http://www.sci.sdsu.edu/cdi. The report also includes information for individuals and teams interested in initiating a new CDI adaptation (see pp. 129-133). Corrections and additions to this report should be sent to Philip Dale, at dalep@unm.edu.

We strongly recommend that anyone considering the development of an adaptation of the CDI acquire the CDI manual:

Fenson, L., Marchman, V. A., Thal, D. J., Dale, P. S., Reznick, J. S., & Bates, E. (2007). *MacArthur-Bates Communicative Development Inventories: User's Guide and Technical Manual, Second Edition*. Baltimore: Brookes Publishing (http://www.brookespublishing.com) for information about the development of the CDI.

CDI Advisory Board

Larry Fenson, San Diego State University, Chair
Dorthe Bleses, University of Southern Denmark
Philip S. Dale, University of New Mexico
Donna Jackson-Maldonado, Universidad Autonoma de Queretaro
Virginia Marchman, Stanford University
Judy Reilly, San Diego State University
J. Steven Reznick, University of North Carolina
Donna J. Thal, San Diego State University and University of California, San Diego

Albanian

Person Preparing Report: Dr. Enkeleida Kapia and Dr. Enila Cenko

Date: December 22, 2010

Forms	Status	Available for	Norms?	Validity Evidence	Manual?
Developed		Distribution			
CDI:WG	Preliminary	No, not yet,	Not, not yet	No, we do not. We are in the process	No, there is
CDI:WS	Preliminary	with the		of conducting this research. We will	not for the
		exception of		have a manuscript ready sometime this	time being
		the research		coming year	_
		group			

PLANS FOR FUTURE WORK

Both short form versions and CDI-III.

CONTACT INFO AND PUBLICATIONS

Dr. Enkeleida Kapia

Research Scientist

Albanian Institute of Developmental Studies

Tirana, Albania

University of Hamburg

Cluster of Excellence (Federal Level)

Linguistic Diversity Management in Urban Areas – LiMA

Center for Albanian Studies

National Research Institutes of History, Archeology, Ethnology, Linguistics and Literature

Sheshi "Nene Tereza", Tirana, Albania

Email: ekapia@bu.edu

Dr. Enila Cenko

Research Scientist

Albanian Institute of Developmental Studies

Tirana, Albania

Email: enila.cenko@gmail.com

American Sign Language

Person Preparing Report: Diane Anderson

Date: October 20, 2010

Forms Developed	Status	Available for Distribution	Norms?	Validity Evidence	Manual?
CDI:WS	Version is final, norms are preliminary	Yes online	Yes, preliminary norms; when family takes the test online, we score it up and return it to them	Yes, Anderson, D. & Reilly, J. (2002). The The MacArthur Communicative Development Inventory: Normative Data for American Sign Language, Journal of Deaf Studies and Deaf Education, 7, 83-106.	No manual available

PLANS FOR FUTURE WORK

We are currently developing the grammar section of the CDI for ASL. This is a visual test presenting parents with two signed sentences, one grammatical, one ungrammatical. Parents are asked to pick the sentence that most closely resembles their child's signing. We are currently piloting this test online.

CONTACT INFO AND PUBLICATIONS

Diane Anderson, Ph.D. Institute of Human Development University of California, Berkeley Berkeley, CA 94720-1950 Ph# 510-773-3810

Email: Jollysox@earthlink.net

Judy Reilly Dept. of Psychology San Diego State University San Diego, CA 92120 (619) 594-2840 (619) 594-2840

Email: reilly1@mail.sdsu.edu

Arabic

Person Preparing Report: Fatima Basaffar

Date: November 11, 2010

Forms	Status	Available for	Norms?	Validity Evidence	Manual?
Developed		Distribution			
CDI:WS CDI:WG	Versions are preliminary	Yes, under request	Not yet	In process	In process

PLANS FOR FUTURE WORK

We are planning to come up with different forms for the different dialects of Arabic.

CONTACT INFO AND PUBLICATIONS

Dr. Fatima Basafar

Email: basafar@hotmail.com

Nahla Dashash, Phd, CCC-SLP Head Speech and Language Clinic Jeddah Institute for Speech and Hearing P.O. Box 3080, Jeddah, 21471, Saudi Arabia

Tel: 966-2-6675311 Fax: 966-2-667-5233

Email: slpnahla@hotmail.com Email: nahla@jish.com.sa

Austronesian Languages in New Zealand: Maori, Samoan, and Tongan

Person Preparing Report: Elaine Reese

Date: December 9, 2010

We requested permission to adapt the NZ CDI: Words and Sentences into Maori, Samoan, Tongan, and Hindi for use at age 2 in the Growing Up in New Zealand study. We have now completed a preliminary version of the Maori, Samoan, and Tongan checklists to use with our pilot group of N = 200. All versions that we have created are based on the CDI II: Short Form A. The Maori version is more or less a direct translation, but to create the Samoan and Tongan versions, we worked from free-play language samples that we have collected with 21 and 26-month old children from another study. We were unable in the end to create a Hindi version that was satisfactory.

CONTACT INFO AND PUBLICATIONS

Dr. Peter Keegan, University of Auckland (Maori)

Dr. Elaine Ballard, University of Auckland (Samoan, Tongan, and a NZ Chinese version of Twila Tardif's adaptation)

Dr. Mele Taumoepeau, University of Otago (Samoan and Tongan)

I also adapted my NZ CDI:II long form into a short form with the help of Dr. Stephanie Stokes and Dr. Tom Klee at the University of Canterbury.

After we get the pilot data in 2011, we will review the psychometrics of the checklists and revise accordingly if necessary. (For the Maori, Samoan, and Tongan versions, we have asked parents an open-ended question about additional words that their children are using that might be incorporated into the final checklist.)

Basque

Person Preparing Report: Maria José Ezeizabarrena & Iñaki Garcia **Date**: October 6, 2010

FORMS DEVELOPED

Forms	Status	Available for	Norms?	Validity Evidence	Manual?
Developed		Distribution			
CDI:WG	Definitive	Yes, it was	Yes. The norms,	Convergent validity and	Barreña, A.,
CDI:WS	versions	published in	percentiles,	correlations were analyzed.	Garcia, I.,
	and short	basque	punctuations and	Correlation between KGNZ-1	Ezeizabarrena, M.
	versions	(Barreña ET	instructions for	& Batelle test revealed the	J., Almgren, M.,
		AL. 2008)	interpretation	following results:	Arratibel, N.,
		The	were included in	(Comprehension $r = 0.87$; $p <$	Olano, I., Barnes,
		publications	Barreña ET AL.	0,001) & Production ($r = 0,917$;	J., Petuya, A. &
		of the short	2008. The	p < 0.001).	Colina, A. (2008).
		versions are in	publication of the	Prediction validity was	MacArthur-Bates.
		progress	norm for the	calculated comparing results of	Komunikazio
		(submitted)	short version is	KGNZ-1 and KGNZ-2 date	Garapena
		ĺ	in progress	obtained from the same	Neurtzeko
			(submitted) but	children in a 6 month interval.	Zerrenda.
			seems to be more	These are the correlation values	Euskarara
			difficult.	obtained:	egokitua.
				(r = 0.61; p < 0.001) for	Erabiltzaileentzak
				vocabulary comprehension	o gida eta
				(KGNZ-1) and vocabulary	eskuliburu
				production (KGNZ-2);	teknikoa. Bilbao:
				(r = 0.45; p < 0.01) for	Udako Euskal
				vocabulary production in	Unibertsitatea.
				KGNZ-1 & vocabulary	ISBN: 978-84-
				production KGNZ-2.	8438-177-8.
				(r = 0.30; p < 0.01) vocabulary	It can be bought
				comprehension in KGNZ-1	in:
				AND morphosyntactic	http://www.ueu.or
				complexity in KGNZ-2.	g/denda/ikusi/Mac
				(r = 0.43; p < 0.001)	Arthur-
				vocabulary production in	Bates%2BKomuni
				KGNZ-1 and morphosyntactic	kazio%2BGarapen
				complexity in KGNZ-2.	a%2BNeurtzeko%
				Convergent validity of short	2BZerrenda
				versions was also calculated.	
				Correlation between KGNZ-1	The short version
				long and KGNZ-1 short were	has not been
				attested in vocabulary	published yet.
				comprehension ($r = 0.76$;	
				p<0,001) and vocabulary	
				production ($r = 0.77$; $p < 0.001$).	

PLANS FOR FUTURE WORK

We are involved in the adapted version, in the development of the KGNZ-3. Once could be the definitive one. Data collection for norming punctuations and validity studies in progress.

CONTACT INFO AND PUBLICATIONS

Margareta Almgren University of the Basque Country Email: xamaoik@terra.es

Nekane Arratibel and Inaki Garcia University of Mondragon Email: inaki garcia@huhezi.edu

Andoni Barrena University of Salamanca Email: oitz@euskalnet.net

Maria Jose Ezeizabarrena University of the Basque Country Email: barrena.andoni@gmail.com

Barreña, A., Ezeizabarrena, M. J. & Garcia, I. (2007). Influence of the linguistic environment on the development of the lexicon and grammar of Basque bilingual children. In C. Perz-Vidal, M Juan-Garau y A. Bel (Eds.) A Portrait of the Young in the New Multilingual Spain. Clevedon: Multilingual Matters. ISBN: 13 978-1-84769-023-4

Almgrem, M.; Ezeizabarrena; M.J. & Garcia, I. (2007). The Basque CDI: Applications in a bilingual society. In M. Eriksson (Ed.) Proceedings from the First European Network Meeting on the Communicative Development Inventories (pp. 83-92). Gävle: Gävle University Press. ISBN: 978-91-974948-8-5

Bengali

Person Preparing Report: Dr. Jena D. Hamadani

Date: October 5, 2010

Forms	Status	Available for	Norms?	Validity Evidence	Manual?
Developed		Distribution			
CDI:WG	Final	We have	No norms	Hamadani JD, Baker-Henningham H,	It is available
		shared it with		Tofail F, Mehrin F, Huda SN,	with us in
		those who are		Grantham-McGregor SM. The validity	Bengali
		interested.		and reliability of mothers' report of	language.
		We can also		language development in one year old	
		post it in web		children in a large scale survey in	
		page if		Bangladesh. Food Nutr Bull 2010	
		needed.		Jun:31(2 Suppl):S198-206.	

PLANS FOR FUTURE WORK

The current instrument is appropriate for children between 9-22 months of age. We have also developed a revised version extended for children up to 36 months of age, but it is not completed yet.

CONTACT INFO AND PUBLICATIONS

Professor Sally McGregor

Email: sallymcgregor@yahoo.com

Dr. Jena D. Hamadani, Head, Child Development Unit Scientist, Clinical Sciences Division ICDDR,B.

Tel +880-2-8113636 (Res), +880-2-8860523-32 Ext 2353 (Off), +880-2-1713093849 (Cell)

Email: jena@icddrb.org

Brazilian Sign Language

Person Preparing Report: Elizabeth Reis Teixeira

Date: May 12, 2011

Project in progress.

Contacts have been made with institutions in other Brazilian states in order to make possible the contact with deaf children in inclusive or specialized schools, only a couple of which have responded. As most schools are located in the south region of the country, research work trips have already been scheduled for this year's second semester (particularly, in São Paulo, Rio Grande do Sul and Minas Gerais).

For the time being, we are reviewing the literature and the materials available on CDI's adaptation to ASL and British Sign Language, attempting a comparison with the BP adaptation (for cultural reasons), and starting to construct a tentative form to start the validation study in the second semester. We still don't know whether we will be able to use both the Words and Gestures and the Words and Sentences forms, as we are having much difficulty in finding subjects to test. The problem with the deaf population is that around 96% of deaf subjects are born in hearing families and most of them only have access to a signed language much later in life – generally when they enter school (around six or seven year of age).

ELIZABETH REIS TEIXEIRA's Curriculum in the LATTES (Brazilian Government Research Agency) database: http://lattes.cnpq.br/6177760381095851

Nanci Araujo Bento's Curriculum in the LATTES database: http://lattes.cnpq.br/2210608216017820

CONTACT INFO AND PUBLICATIONS

Elizabeth Teixeira Rua Joao Mendes da Costa Filho 306/302-D Jardim de Alah 41750-190 Salvador, BA Brasil Tel: (0115571) 343-5246 ereist.teixeira@gmail.com

British Sign Language

Person Preparing Report: Dr. Bencie Woll

Date: February 9, 2011

Forms Developed	Status	Available for Distribution	Norms?	Validity Evidence	Manual
CDI:WG	Final	At present, available on request. We plan to make it more widely available, together with a user's manual, by the end of the year.	Norms for native signing deaf children have been published (see Woolfe T, Herman R, Roy P & Woll B (2010) Early Lexical Development in Native Signers: A BSL Adaptation of the MacArthur-Bates CDI. <i>Journal of Child Psychology and Psychiatry</i> 51(3) 322-331.	We are currently analysing data from hearing native signers (hearing children with deaf parents) and deaf children with hearing parents	(not yet available but planned for later this year)

PLANS FOR FUTURE WORK

Our current work is focused on developing norms for other groups of children using BSL

CONTACT INFO AND PUBLICATIONS

Bencie Woll, BA, MA, PhD Chair of Sign Language and Deaf Studies Director, DCAL Research Centre 49 Gordon Square, London WC1H 0PD Email: b.woll@ucl.ac.uk

+44 20 7679 8670 (voice) Internal 28670

+44 20 7679 8691 (fax)

+44 20 7679 8693 (textphone/minicom)

www.dcal.ucl.ac.uk

Woolfe T, Herman R, Roy P & Woll B (2010) Early Lexical Development in Native Signers: A BSL Adaptation of the MacArthur-Bates CDI. *Journal of Child Psychology and Psychiatry* 51(3) 322-331.

Catalan

Person Preparing Report: Dr. Elisabet Serrat Sellabona

Date: November 15, 2010

Forms	Status	Available for	Norms?	Validity Evidence	Manual?
Developed		Distribution			
CDI:WG	Final	It is available	There are	We do not have empirical	There is not a manual for
CDI:WS	Versions	to others	not norms	evidence on the validity	the instrument. We
		under request	for the	of the measure. At	intend to write the
			instrument	present, we are collecting	manual after finishing
			yet. We are	data about it	developing the norms for
			developing		the instrument and the
			them		validity of the measure

PLANS FOR FUTURE WORK

We do not have plans for further CDI work.

CONTACT INFO AND PUBLICATIONS

Dr. Elisabet Serrat University of Girona (Spain) Email: elisabet.serrat@udg.edu

Dr. Miquel Serra

University of Barcelona (Spain)

Email: mserra@udg.edu

At present we have one publication with data obtained from Catalan CDI-II adaptation.

Serrat, E., Sanz-Torrent, M., Badia, I., Aguilar, E., Olmo, R., Lara, M. F., Andreu, L. y Serra, M. (2010). La relación entre el aprendizaje léxico y el desarrollo gramatical. *Infancia y Aprendizaje*, *33*(4), 435-448.

Chichewa/Nyanja and Chiyao (Yao)

Person Preparing Report: Elizabeth Prado, PhD

Date: May 5, 2011

Forms	Status	Available for	Norms?	Validity	Manual?
Developed		Distribution		Evidence	
CDI:WG	We have developed a tool designed to assess language development in children age 18 months in Malawi. We developed the tool to evaluate the effect of nutritional supplementation on children's language development. The interview consists of 100 vocabulary items, 6 gesture items, and 5 grammatical items. Final Version.	Not yet	No, we do not have norms. Since we are only testing children at age 18 months, we do not expect to develop norms.	We plan to validate the tool against transcripts of child speech recordings. This should be completed in the next 6 months	Yes, there is a manual that is also still under development

PLANS FOR FUTURE WORK

Currently no plans

CONTACT INFO AND PUBLICATIONS

Elizabeth Prado, PhD
Post-doctoral scholar
Program in International and Community Nutrition
University of California at Davis
Email: elprado@ucdavis.edu
iLiNS project website: http://ilins.org/

Chinese: Cantonese (Hong Kong), Mandarin (Beijing)

Person Preparing Report: Twila Tardif

Date: February 28, 2011

Forms	Status	Available for	Norms?	Validity Evidence	Manual?
Developed		Distribution			
CDI:WG	Final	The forms and	YES,	Much of this is available in the	The complete manual
CDI:WS		complete manual	same	Manual and we have ongoing	is available for \$100
		are available for	manual	papers in press, as well as three	and can be ordered
		\$100 and can be		publications that have already	from our website,
		ordered from our		come out:	unlimited copies can
		website,			be printed from each
		unlimited copies		Tardif, T., Fletcher, P., Liang,	of the forms (SF, LF,
		can be printed		W.L, & Kaciroti, N. (2009). Early	Infant, Toddler in 2
		from each of the		vocabulary development in	languages: Cantonese
		forms (SF, LF,		Mandarin (Putonghua) and	and Mandarin:
		Infant, Toddler in		Cantonese. Journal of Child	http://www.umich.ed
		2 languages:		Language, 36, 1115-1144. PMID:	u/~chgd/programs/ca
		Cantonese and		19435545.	d/CCDI_GuideManu
		Mandarin:			al.html
		http://www.umich		Tardif, T., Fletcher, P., Liang,	
		.edu/~chgd/progra		W.L., Zhang, Z.X., Marchman, V.	Tardif, T., Fletcher,
		ms/cad/CCDI_Gu		, & Kaciroti, N. (2008). Babies'	P., Zhang, Z.X.,
		ideManual.html		First 10 Words. Developmental	Liang, W.L., & Zuo,
				Psychology, 44(4), 929-938.	Q.H. (2008). The
				N W G I I 20 D W W I	Chinese
				Ma, W., Golinkoff, R.M., Hirsh-	Communicative
				Pasek, K., McDonough, C., &	Development
				Tardif, T. (2009). Imageability	Inventory (Putonghua
				predicts verb learning in Chinese	and Cantonese
				children. Journal of Child	versions): Manual,
				Language, 36(2), 235-267. DOI:	Forms, and Norms.
				10.1017/S0305000908008933.	Peking University
					Medical Press.

PLANS FOR FUTURE WORK

Shortform versions (W&G plus W&S) have been developed for both Cantonese and Mandarin and are published in the Manual cited above.

CONTACT INFO AND PUBLICATIONS

Twila Tardif Department of Psychology University of Michigan 2014 East Hall 525 East University Ann Arbor, MI 48109-1109 Tel: (734) 76 4-2443

Fax: (734) 936-9288 Email: twila@umich.edu

Paul Fletcher

Email: P.Fletcher@ucc.ie

http://www.umich.edu/~chgd/programs/cad/CCDI_GuideManual.html

Tardif, T., Fletcher, P., Liang, W.L, & Kaciroti, N. (2009). Early vocabulary development in Mandarin (Putonghua) and Cantonese. *Journal of Child Language*, *36*, 1115-1144. PMID: 19435545.

Tardif, T., Fletcher, P., Liang, W.L., Zhang, Z.X., Marchman, V., & Kaciroti, N. (2008). Babies' First 10 Words. *Developmental Psychology*, 44(4), 929-938.

Ma, W., Golinkoff, R.M., Hirsh-Pasek, K., McDonough, C., & Tardif, T. (2009). Imageability predicts verb learning in Chinese children. *Journal of Child Language*, 36(2), 235-267. DOI: 10.1017/S0305000908008933.

Chinese: Mandarin (Taiwan)

Person Preparing Report: Huei-Mei Liu

Date: October 6, 2010

Forms	Status	Available for	Norms?	Validity Evidence	Manual?
Developed		Distribution			
CDI: WG	I consider	Published by	The month-to-	The information of the	There is a
CDI: WS	the present	The Profile of	month norm data	validity of the measures	manual with the
	forms as	Psychological	were collected	were described in a	inventories.
	final	Publishing	from a stratified	published journal article in	They were
	versions	Co., Ltd. In	random sample of	Formosa Journal of Mental	published by
		Taiwan	2,654 8-36	Health.	The Profile of
			month-old	<u>Liu, H. – M. & Tsao, F. –</u>	Psychological
			children in	M. (2010 inpress). The	Publishing Co.,
			Taiwan.	Standardization and	Ltd. In Taiwan.
				Application of Mandarin-	
				Chinese Communicative	
				Developmental Inventory	
				for Infants and Toddlers.	
				Formosa Journal of Mental	
				<i>Health, 23</i> (4), xx-xx.	

PLANS FOR FUTURE WORK

I am interested in developing the shortform versions, and would be glad to learn more from it.

CONTACT INFO AND PUBLICATIONS

Contact: Huei-Mei Liu, Associate Professor, Department of Special Education National Taiwan Normal University Email: liumei@ntnu.edu.tw

Publications:

Liu, H. – M. & Tsao, F. – M. (2010). The Standardization and Application of Mandarin-Chinese Communicative Developmental Inventory for Infants and Toddlers. *Formosa Journal of Mental Health*, 23(4), 503-534. (in Chinese)

Liu, H. – M. & Tsao, F. – M. (2010). The manual of Mandarin-Chinese Communicative Developmental Inventory for Infants and Toddlers. Taipei, Taiwan: The Profile of Psychological Publishing Co., Ltd.

Website of the Publisher: http://www.psy.com.tw/com.php

Croatian

[Information from a previous update; unable to obtain current information]

Melita Kovacevic University of Zagreb Dept. of Logopedics Kuslanova 59a 10000 Zagreb, Croatia Tel: (385) 1 2338 022 melita.kovacevic@public.srce.hr

Kovacevic, M., Babic, Z., & Brozovic, B. (1996). A Croatian language parent report study: Lexical and grammatical development. Paper presented at the VIIth International Congress for the Study of Child Language, July 1996, Istanbul, Turkey.

Cypriot Greek

Person Preparing Report: Dr. Kleanthes Grohmann and Dr. Maria Kambanaros

Date: October 29, 2011

Research and Development underway

CONTACT INFO AND PUBLICATIONS

Dr Kleanthes K. Grohmann Assoc. Prof. of Biolinguistics University of Cyprus Department of English Studies 75 Kallipoleos P.O. Box 20537 CY–1678 Nicosia Cyprus

Email: kleanthi@ucy.ac.cy

Dr. Maria Kambanaros Cyprus Acquisition Team

Email: kambanaros@gmail.com

Danish

Person Preparing Report: Christina Andersen **Date:** November 12, 2010

Forms	Status	Available for	Norms?	Validity Evidence	Manual?
				~	
Forms Developed CDI:WG CDI:WS	Status Final Versions	Available for Distribution Yes, it is available to others on the internet in the CDI CLEX database (= Cross Linguistic Lexical Norms): http://www.cdi-clex.org and through publications).	Yes, there are norms for the Danish instrument on the internet in the CDI CLEX database (= Cross Linguistic Lexical Norms): http://www.cdi-clex.org. All results for the Danish CDI:WG study are based on a total of 2398 Danish children in the age of 8 to 20 months. The Danish CDI:WS study are based on a total of 3714 Danish children in the age of 16 to 36 months. Also see the norms in the Danish manual: Bleses, D., Vach, W., Wehberg, S., Faber, K. & Madsen. T. O. (2007). Tidlig kommunikativ udvikling. Et værktøj til beskrivelse af sprogtilegnelse baseret på CDI-forældrerapportundersø gelser af danske normalthørende og hørehæmmede børn. [= Instrument to assess the	See the article by: Bleses, D., Vach, W., Slott, M., Wehberg, S., Thomsen, P., Madsen, T. & Basbøll, H. (2008). The Danish Communicative Development Inventories: validity and main developmental trends. Journal of Child Language, 35, 651-669. A citation pp. 660-661: "Based on comparisons between spontaneous speech data and CDI data we were able to conclude that: "the investigations of the validity and reliability of the Danish CDI instrument suggest that: (a) most common words and a substantial part of the less common words used spontaneously by Danish children are included in the vocabulary lists; (b) the vocabulary development of Danish children as measured by the CDI	Yes, see: Bleses, D., Vach, W., Wehberg, S., Faber, K. & Madsen. T. O. (2007). Tidlig kommunikativ udvikling. Et værktøj til beskrivelse af sprogtilegnelse baseret på CDI- forældrerapportu ndersøgelser af danske normalthørende og hørehæmmede børn. [= Instrument to assess the language development based on CDI parental reports in Danish normal hearing and hearing impaired children] Syddansk Universitetsforlag [= University Press of Southern Denmark].
			forældrerapportundersø gelser af danske normalthørende og hørehæmmede børn. [= Instrument to assess the	included in the vocabulary lists; (b) the vocabulary development of Danish children as measured by the CDI	Syddansk Universitetsforlag [= University Press of Southern
			language development based on CDI parental reports in Danish normal hearing and hearing impaired children] Syddansk Universitetsforlag [= University Press of Southern Denmark].	seems to correlate adequately with the growth of word types in spontaneous speech as measured in four Danish children's spontaneous speech productions; and (c) values of internal consistency of different scales of the Danish CDI	More detailed information on the conduct of the Danish CDI instrument and study can be found in: Andersen, C., Vach, W., Wehberg, S. &
			Also see some of the norms in the article by: Bleses, D., Vach, W.,	were found to be satisfactory. We	Bleses, D. (2006): Conduct of the Danish CDI

	Slott, M., Wehberg, S.,	therefore conclude that	Studies. Working
	Thomsen, P., Madsen,	the Danish adaptation of	papers. Center for
	T. & Basbøll, H.	the American CDI has	Child Language e-
	(2008). The Danish	been adjusted	prints No. 1.
	Communicative	linguistically and	
	Development	culturally in appropriate	
	Inventories: validity	ways which makes it	
	and main	suitable for tapping into	
	developmental trends.	Danish children's	
	Journal of Child	language acquisition".	
	Language, 35, 651-669.		

PLANS FOR FUTURE WORK

We are working on a CDI III version for Danish, Swedish and American English children in the age of 3 to 4 years of age. We have also made a CDI short form that is part of the Danish screening tool SI3. See the papers below:

Vach, W., Bleses, D. & Jørgensen, R. (2010). Construction of a Danish CDI short form for language screening at the age of 36 months: Methodological considerations and results. Clinical Linguistics & Phonetics, August 2010, Vol. 24, No. 8, pp. 602-621.

Early Online, 1-20. Informa Healthcare.

http://informahealthcare.com/doi/pdf/10.3109/02699201003710606

Bleses, D., Vach, W., Jørgensen, R. N., & Worm, T. (2010). The internal validity and acceptability of the Danish SI-3: a language screening instrument for 3-year-olds. *Journal of Speech, Language and Hearing Research*, *53*, 490-507.

CONTACT INFO AND PUBLICATIONS

Dorthe Bleses, Center Director Center for Child Language (Center for Børnesprog) University of Southern Denmark Campusvej 55 DK-5230 Odense M Denmark

Email: bleses@language.sdu.dk

TEL.: +45 6550 3346 FAX: +45 6550 3180

Bleses, D., Vach, W., Slott, M., Wehberg, S., Thomsen, P., Madsen, T. & Basbøll, H. (2008). The Danish Communicative Development Inventories: validity and main developmental trends. *Journal of Child Language*, *35*, 619-650.

Bleses, D., Vach, W., Slott, M., Wehberg, S., Thomsen, P., Madsen, T. & Basbøll, H. (2008). Early vocabulary development in Danish and other languages: a CDI-based comparison. *Journal of Child Language*, *35*, 651-669.

Wehberg, S., Vach, W., Bleses, D., Thomsen, P., Madsen, T. O. & Basbøll, H. (2008). Girls talk about dolls and boys about cars? Analyses of group and individual variation in Danish children's first words. *First Language*, 28, (1), 71-85.

URL to Center for Child Language, University of Southern Denmark: http://www.sdu.dk/cfb

Dutch

Person Preparing Report: Inge Zink

Date: November 15, 2010

Forms	Status	Available for	Norms?	Validity Evidence	Manual?
Developed		Distribution		, and the second	
	Final versions		Norms are published in the manuals for all CDI's.	In the manual for CDI:WS AND WG we mention validity studies (concurrent validity and predictive validity) CDI III- We calculated correlations between the N- CDI 3 and de the Dutch version of the Peabody Picture Vocabulary Test (PPVT-III-NL) and between de N-CDI 3 and subtest productive vocabulary from the Schlichting Test voor Taalproductie (Dutch Language Test). The correlations are high and significant. So we can conclude that there is a correlation between the different parts of the CDI 3 and vocabulary tests (receptive and expressive).	Yes there is a manual for the instrument: Zink I. & Lejaegere M. (2002) N-CDIs: Lijsten voor Communicatiev e Ontwikkeling. Acco, Leuven/Leusde n. We have sent the manual to Larry Fenson in 2002. CDI III- Yes there is a manual for the instrument. I think we have sent it to Larry Fenson in 2007. I'm not sure. If you didn't get it, we can
		(Belgium)/Leusden (Netherlands).			always send you a copy.

PLANS FOR FUTURE WORK

We developed short forms (N-CDI 1 and N-CDI 2: Zink & Lejaegere, 2003).

We developed a version for children with Intellectual Disabilities who use manual signs. This version is not published but we published about this research in Journal of Speech, Language and Hearing Research: Joke Vandereet, Bea Maes, Dirk Lembrechts, and Inge Zink. Predicting Expressive Vocabulary Acquisition in Children with Intellectual Disabilities: A 2-year Longitudinal Study

(J Speech Lang Hear Res Vol 53, 1-14, December 2010).

CONTACT INFO AND PUBLICATIONS

Inge Zink
Exp ORL, Dept. Neurosciences, K.U.Leuven
O&N2, Herestraat 49 bus 721
B-3000 Leuven, Belgium
Email: inge.zink@med.kuleuven.be

JARID (Journal of Applied Research in Intellectual Disabilities): Vandereet, J., Maes, B., Lembrechts, D. & I. Zink (2010, 23, 154–166)

Journal of Speech, Language and Hearing Research: Joke Vandereet, Bea Maes, Dirk Lembrechts, and Inge Zink. Predicting Expressive Vocabulary Acquisition in Children with Intellectual Disabilities: A 2-year Longitudinal Study (J Speech Lang Hear Res Vol 53, 1-14, December 2010)

English (Australian)

[Information from a previous update; unable to obtain current information]

Denis Burnham Denis.Burnham@uws.edu.au

English (British)

Person Preparing Report: Katie Alcock

Date: December 13, 2011

Forms	Status	Available for Distribution	Norms?	Validity Evidence	Manual?
Developed					
CDI:WG CDI:WS	Several Preliminary versions are available (Lincoln and Oxford)	The Oxford and Lincoln versions are available via the internet (links below). Neither of these include gestures but a pilot gesture questionnaire is available from Katie Alcock via email. http://www.lincoln.ac.uk/psychology/babylab.htm http://babylab.psy.ox.ac.uk/research/oxford-cdi	No, but there is an online data base available into which we entered the anonymised parental questionnaire data.	A pilot study. We tested children at 9, 12, 18 an 24 months and found – in general – that Intermodal Preferential Looking results coincide with CDIs estimates from parents.	No Manual

PLANS FOR FUTURE WORK

Yes, we are creating a UK short form with 100 items together with the CDI:Words & Gestures, and are looking towards standardising the CDI:Words & Sentences as well as the CDI III for the UK.

CONTACT INFO AND PUBLICATIONS

The links are not really ready for people to download CDIs or data from since the finalized versions are not yet completed.

Team consists of Caroline Rowland, Kerstin Meints and Katie Alcock

Katie Alcock

Email: k.j.alcock@lancaster.ac.uk

English (New Zealand)

Person Preparing Report: Elaine Reese

Date: April 11, 2011

Forms Developed	Status	Available for Distribution	Norms?	Validity Evidence	Manual?
CDI:WS	Final	Yes, I email it upon request	No, but Stephanie Stokes and Tom Klee at the University of Canterbury would like to collaborate with me in developing norms for the NZ CDI: II.	Reese, E., & Read, S. (2000). Predictive validity of the New Zealand MacArthur Communicative Development Inventory: Words and Sentences. <i>Journal of Child Language</i> , 27, 255-266.	No

PLANS FOR FUTURE WORK

We have developed a short form of the NZ CDI:II based on our latest adaptation. We have received permission to use this adapted short form with 6700 families in the Growing Up in NZ study at age 2. As mentioned above, Stephanie Stokes and Tom Klee at the University of Canterbury have discussed a possible norming study of the CDI: II long form, for which they have invited me to collaborate.

CONTACT INFO AND PUBLICATIONS

Elaine Reese, Ph.D. University of Otago Department of Psychology P.O. Box 56 Dunedin, New Zealand

Tel: 64-3-479-9016 Fax: 64-3-479-8335

Email: ereese@psy.otago.ac.nz

Reese, E. & Read, S. (2000). Predictive validity of the New Zealand MacArthur Communicative Development Inventory: Words and sentences. Journal of Child Language, 27(2), 255-266.

http://psy.otago.ac.nz/staff/reese.html

Estonian

Persons Preparing Report: Tiia Tulviste & Astra Schults

Date: March 10, 2011

Forms	Status	Available for	Norms?	Validity Evidence	Manual?
Developed		Distribution			
CDI:WG	Final	Yes, if they	We have the	No, but there were	No
CDI:WS	Preliminary.	ask it from us	norms	statistically	
	Changes are			significant	
	needed in the			correlations between	
	grammar part (E.			the results of CDI and	
	Complexity) as			the size of children's	
	Estonian grammar			vocabulary in real-life	
	differs much from			mother-child	
	English grammar.			interactions (we used	
				CHILDES).	

PLANS FOR FUTURE WORK

Yes.

CONTACT INFO AND PUBLICATIONS

Tiia Tulviste

Email: tiia.tulviste@ut.ee

Tulviste, T. (2007). Variation in vocabulary development among Estonian children as a function of child's gender, birth order, child-care, and parental education. In M Eriksson (Ed.), *Proceedings from the First European Network Meeting on the Communicative Development Inventories* (pp. 16-21). Gävle, Sweden: University of Gävle.

Eriksson, M., Marschik, P. B., Tulviste, T., Almgren, M. et al., (2011). Differences Between Girls and Boys in Emerging Language Skills: Evidence from 10 Language Communities. Submitted.

Schults, A., Tulviste, T., & Konstabel, K. (2011). Early vocabulary and gestures in Estonian children. Submitted.

Finnish (Short)

Person Preparing Report: Dr. Suvi Stolt

Date: January 28, 2011

I have received an authorization from the CDI Advisory Board to translate and adapt the short form versions of the CDI in Finnish, and to accomplish the norming study. At the moment (December 2010), the translation / adaptation process of the short form inventories is nearly finished. The ethical committee of the University of Turku has given its' approval for the research plan in December 2010. The data collection will begin in spring 2011

CONTACT INFO AND PUBLICATIONS

Dr. Suvi Stolt University of Turku Dept. of Social Sciences and Philosophy, Logopedics Assistentinkatu 7, Publicum 20014 University of Turku Finland

Email: suvsto@utu.fi

Finnish (Long Form)

Person Preparing Report: Paula Lyytinen

Date: October 30, 2010

Forms	Status	Available for Distribution	Norms?	Validity	Manual?
Developed				Evidence	
CDI:WG CDI:WS	The present versions are final	Inventories are available freely via net from Niilo Mäki Institute (www.nmi.fi/en/) ie. a nonprofit organization mediating services for professionals supporting children with neurodevelopmental problems; access from: www.nmi.fi/julkaisutilaus.htm the Finnish title of the assessment tool is: Varhaisen kommunikaation ja kielen kehityksen arviointimenetelmä	Yes, there are norms which are available from the given address	Yes, please, have a look of the appended updated list of relevant publications	Yes, available from the given address

PLANS FOR FUTURE WORK

No plans now.

CONTACT INFO AND PUBLICATIONS

Paula Lyytinen
Dept. of Psychology
University of Jyväskylä
P.O. Box 35
SF-40351, Jyväskylä Finland
Tel: +358-41-601 211
paula.lyytinen@psyka.jyu.fi

Lyytinen, P., Poikkeus, A-M., Laakso, M-L., Eklund, K., & Lyytinen, H. (2001). Language development and symbolic play in children with and without familial risk for dyslexia. Journal of Speech, Language and Hearing Research, 44, 873-885.

Lyytinen, P., & Lyytinen, H. (2004). Growth and predictive relations of vocabulary and inflectional morphology in children with and without familial risk for dyslexia. Applied Psycholinguistics, 25, 397-411.

Lyytinen, P., Eklund, K., & Lyytinen, H. (2005) Language development and literacy skills in late-talking toddlers with and without familial risk for dyslexia. Annals of Dyslexia, 55, 166-192.

Torppa, M., Lyytinen, P., Erskine, J, Eklund, K., & Lyytinen, H. (2010). Language development, literacy skills, and predictive connections to reading in Finnish children with and without familial risk for dyslexia. Journal of Learning Disabilities, 43, 308-321.

French (Canadian)

Person Preparing Report: Natacha Trudeau

Date: November 4, 2011

Forms	Status	Available for	Norms?	Validity Evidence	Manual?
Developed		Distribution		-	
CDI:WG	Final	It is available on	Yes. Norms	Yes.	Yes. At the
CDI:WS	versions	the Université de	were gathered	Concurrent validity: We	same
		Montréal website,	on a sample	correlated the main scores on the	address as
		at the following	of 1300+	Inventories to related measures	the
		address:	children. They	derived from freeplay samples in	questionnair
		http://coder-	are available	a group of children from four	es and
		eoa.eoa.umontreal.c	through the	age groups (8-10, 13-15, 19-21,	norms. The
		a/fmi/xsl/trudeau_N	same website.	26-28 months). The correlations	manual also
		_outil_eval/addreco		were moderate to very strong for	contains the
		rd.xsl?-view		all verbal measures. They were	detailed
		People are asked to		lower (but still significant) for	reliability
		provide some		gestures.	results.
		contact information			
		and can then access			
		the questionnaire.			

PLANS FOR FUTURE WORK

The provincial government would like to use short forms (about 25 words) to follow language development as a health marker between 18 and 30 months of age. Discussions are in the early stages for this initiative.

There are short forms for the two inventories (also available on the website), but no norms or validity data. These are different from the (even shorter) form that the provincial government was hoping to develop, which is mentioned above.

CONTACT INFO AND PUBLICATIONS

Natacha Trudeau

Faculté de médecine - École d'orthophonie et audiologie

Université de Montréal

CP6128, Succursale Centre-Ville, Montreal, QC, Canada H3C 3J7

Télécopieur : 514-723-7116 Téléphone : 514-374-1710 8608;

514-343-6111 1643

Email: natacha.trudeau@umontreal.ca

Diane Poulin-Dubois Professor of Psychology Centre for Research in Human Development Concordia University 7141 Sherbrooke Street West Montréal, Québec, Canada H4B 1R6 Office: 514-848-2424 ext. 2219 Lab: 514-848-2424 ext. 2279

Fax: 514- 848-2815

Email: Diane.PoulinDubois@concordia.ca

Recent publications about the adaptation and its norms/validity:

Boudreault, M.-C., Cabirol, É.-A., Trudeau, N., Poulin-Dubois, D., & Sutton, A. (2007). Les Inventaires Macarthur du développement de la communication : validité et données normatives préliminaires. *Journal of Speech-Language Pathology and Audiology*, *31*(1), 27-37.

Trudeau, N. & et coll. (2008). Inventaires MacArthur-Bates du développement de la communication: Manuel de l'utilisateur.

http://132.204.140.194/fmi/xsl/trudeau N outil eval/addrecord.xsl?-view.

Recent publications using the adaptation:

Kay-Raining Bird, E., Cleave, P. L., Trudeau, N., Thordardottir, E., Sutton, A., & Thorpe, A. (2005). The language abilities of bilingual children with Down syndrome. *American Journal of Speech-language Pathology*, *14*(*3*), 187-199.

Elin Thordardottir (2005). Early lexical and syntactic development in Québec French and English: implications for cross-linguistic and bilingual assessment. *International Journal of Language and Communication*, 40 (3): 243-278.

Bouchard, C., Trudeau, N., Bigras, N., & Sutton, A. (2008). Vocabulaire des enfants âgés entre 8 et 30 mois qui fréquentent un service de garde structuré. In N. Bigras & G. Cantin (Eds.), *Les services de garde éducatifs à la petite enfance du Québec: Recherches, réflexions et pratiques* (pp. 167-178). Québec (Québec): Presses de l'Université du Québec.

Bouchard, C., Trudeau, N., Sutton, A., Boudreault, M.-C., & Deneault, J. (2009). Gender differences in language development in French Canadian children between 8 and 30 months of age. *Applied Psycholinguistics*, 30(4), 685-707.

Duchesne, L., Sutton, A., Bergeron, F., & Trudeau, N. (2010). Le développement lexical précoce des enfants porteurs d'un implant cochléaire. *Revue Canadienne d'orthophonie et d'audiologie*, 43, 132-145.

Poulin-Dubois, D., Blaye, A., Coutyal, J, & Bialystok, E. (in press). The effects of bilingualism on toddlers' executive functioning. *Journal of Experimental Psychology*.

Trudeau, N. & Sutton, A. (accepted, March 2011). Expressive vocabulary and early grammar of 16- to 30-month-old children acquiring Quebec French. *First Language*, 33 pages.

French (European)

Person Preparing Report: Sophie Kern

Date: October 14, 2010

Forms	Status	Available for	Norms?	Validity	Manual?
Developed		Distribution		Evidence	
CDI:WG	Final	In the Manual	In the Manual	Kern, S &	Yes Kern, S.
CDI:WS	Final	Kern, S. & F.	Kern, S. & F.	Gayraud, F.,	& F. Gayraud
CDI-III	Developing	Gayraud	Gayraud	2010, IFDC.	(2010). IFDC.
		(2010). IFDC.	(2010). IFDC.	Les Editions	Les Editions
		Les Editions la	Les Editions	la cigale,	la cigale,
		cigale,	la cigale,	Grenoble, pp	Grenoble
		Grenoble	Grenoble	30-32	

PLANS FOR FUTURE WORK

We have developed three short forms (12, 18 and 24 months of age).

There are available at http://www.editions-cigale.com/ressource/IFDC-8-30-mois-version-courte Norms are given in Kern, S., Langue, J., Zesiger, P., Bovet, F., 2010. Adaptations françaises des versions courtes des inventaires du développement communicatif de MacArthur-Bates, ANAE, vol 22, numéro 107-108.

CDI-III in development.

CONTACT INFO AND PUBLICATIONS

Sophie Kern Chargée de recherches Laboratoire Dynamique du Langage (UMR5590) Institut des Sciences de l'Homme 14, avenue Berthelot 69363 Lyon cedex 07 France

tel: (+33) 04-72-72-64-60 fax: (+33) 04-72-72-65-90

e-mail: sophie.kern@univ-lyon2.fr

Kern, S. & F. Gayraud (2010). IFDC. Les éditions la cigale, Grenoble Kern, S., 2007, "Lexicon development in French-speaking infants", First Language, 27:3, pp. 227-250

Kern, S. & Gayraud, F., 2007, "Influence of preterm birth on early lexical and grammatical acquisitions in French", First Language, 27:2, pp. 159-173

Galician

Person Preparing Report: Miguel Pérez-Pereira

Date: October 11, 2010

Forms	Status	Available for	Norms?	Validity Evidence	Manual?
Developed		Distribution			
	Final versions		Request to the authors. We are preparing the technical manual and a web page where parents will be able to fill in the forms on line.	Not for the CDI Words & Gestures, but yes for Words & Sentences. Pérez-Pereira, M., & Resches, M. (2011). Concurrent and predictive validity of the Galician CDI. Journal of Child Language, 38(1), 121-140. Pérez Pereira, M. & Resches, M. (2007) Elaboración de las formas breves del Inventario do Desenvolvemento de Habilidades Comunicativas. Datos normativos y propiedades psicométricas. Infancia	The manual is in progress, and we would like to finish it by the end of 2011.
				y Aprendizaje, 30 (4), 565-588. Miguel Pérez Pereira & X.R. García Soto (2003). El diagnóstico del desarrollo comunicativo en la primera infancia: adaptación de las escalas MacArthur al gallego. Psicothema, 15 (3), 352-361	

PLANS FOR FUTURE WORK

We have already completed the short form, and it will appear in the technical manual as well. We are collaborating with Judy Reilly in the development of a part to include in the CDI-III to assess narrative capacity of children.

CONTACT INFO AND PUBLICATIONS

Miguel Pérez-Pereira Email: miguel.perez.pereira@usc.es Department of Developmental Psychology. Faculty of Psychology. University of Santiago de Compostela 15782 Santiago de Compostela. Spain

Most recent publications:

Pérez Pereira, M. & Resches, M. (2007) Elaboración de las formas breves del *Inventario do Desenvolvemento de Habilidades Comunicativas*. Datos normativos y propiedades psicométricas. *Infancia y Aprendizaje*, 30 (4), 565-588.

Pérez-Pereira, M., Almgren, M., Resches, M., Ezeizabarrena, Mª J., Díaz, C., García, I. (2007) Cross-linguistic comparisons between Basque and Galician. In M. Eriksson (ed.),

- Proceedings from The First European Network Meeting on Communicative Development inventories. Pgs. 22-31. Gävle: Sweden, Gävle University Press. ISBN 978-91-974948-8-5.
- Pérez-Pereira, M., Resches, M. & Fernández, P. (2007). Differences in language development between monolingual (Galician) and bilingual (Galician-Spanish) children. In M. Eriksson (ed.), *Proceedings from The First European Network Meeting on Communicative Development inventories*. *Pgs. 93-102*. Gävle: Sweden, Gävle University Press. ISBN 978-91-974948-8-5
- Pérez-Pereira, M. (2008). Early Galician/Spanish bilingualism: contrasts with monolingualism. In C. Pérez-Vidal; M. J. Garau & A. Bel (Eds.) *A portrait of the young in the new multilingual Spain*. Clevedon: Multilingual Matters. Pgs. 39-62. ISBN-13: 978-1-84769-023-4 (hbk), ISBN-13: 978-1-84769-022-7 (pbk).
- Pérez Pereira, M., & Resches, M. (2008). Validez concurrente y predictiva del IDHC. Implicaciones para el posterior desarrollo del lenguaje y de la cognición social. In E. Díez-Itza (Ed.), *Estudios de desarrollo del lenguaje y educación*. (pp. 87-94). Oviedo: Universidad de Oviedo ICE. ISBN: 978-84-88828-29-3.
- Pérez Pereira, Miguel (2008). A adquisición da lingua. En Elisa Fernández Rei & Xose Luis Regueira (Eds.), *Perspectivas sobre a oralidade*. Pags. 169-186. Santiago de Compostela: Consello da Cultura Galega Instituto da Lingua Galega.
- Pérez-Pereira, M. & Resches, M. (2009). Relationships between linguistic and behavioral measures during development. In Grinstead, J. *Hispanic Child Languages: Typical and impaired development*. Pgs 217-237. Amsterdam: John Benjamins.
- Pérez-Pereira, M., & Resches, M. (2011). Concurrent and predictive validity of the Galician CDI. *Journal of Child Language*, 38(1), 121-140

German

Person Preparing Report: Gisela Szagun **Date:** October 29, 2010

Forms	Status	Available for	Norms?	Validity Evidence	Manual?
Developed		Distribution			
CDI:WS	Final. It would be good, however, in the long run, to collect data bringing the sample of the lowest parental education to the proportion corresponding more closely to the figures in the population census of Germany.	It was published in German in 2009 by Person Assessment: Szagun, G., Stumper, B. & Schramm, A.S. (2009). Fragebogen zur frühkindlichen Sprachentwicklung (FRAKIS) und FRAKIS-K (Kurzform). Frankfurt: Pearson Assessment. This instrument is equivalent to the toddler CDI, age span 1;6 to 2;6. It includes a Short Form Version. Unfortunately, we were not able to give the instrument the name "GCDI" because of, at the time, unresolved problems regarding the short parental questionnaire ELFRA by H. Grimm. There is an earlier publication of our instrument in English with a different and smaller sample. This was a study serving as a large pilot when we were still developing our instrument: Szagun, G.,	Yes, there are norms. They are published, see 2009 publication above. There are norms for the long FRAKIS and for the Short Form version FRAKIS-K.	Our instrument was validated (concurrent validity) on spontaneous speech data of 60 children of the total sample of 1240. Two hours spontaneous speech were collected and MLU and type frequency were correlated with the vocabulary and grammar measures of the questionnaire. The results are published in the FRAKIS publication, 2009, see above. There is excellent concurrent validity on all measures.	Yes, there is a Manual in the publication, see above. There are also guide lines on how to interpret the numerical values of the grammar scales (Inflectional Morphology scale and Sentence Complexity scale). FRAKIS gives relatively detailed information about a child's grammatical level assessing the child's performance in different inflectional paradigms. On the basis of this and the other information (vocabulary and sentence complexity) it is possible to draw up an individual

Steinbrink, C., Franik,		child's
M. & Stumper, B.		developmenta
(2006). Development		l profile.
of vocabulary and		Three
grammar in young		examples of
German-speaking		such profiles
children assessed with		are given in
a German language		the
development		publication
inventory. First		Manual.
Language, 26, 259-		
280.		
A publication in		
English of the normed		
FRAKIS and		
FRAKIS-K is in		
preparation.		

PLANS FOR FUTURE WORK

Plans for:

- Questionnaire and norming study for 2;7 to 3;0 year old children
- Additional data collection with all instruments from parents of lower educational level

CONTACT INFO AND PUBLICATIONS

Professor Gisela Szagun
Developmental Science Research Department
Division of Psychology & Language
University College London
2 Wakefield Street
London WC1N 2PF
United Kingdom

Email: gisela.szagun@googlemail.com Website: www.giselaszagun.com

Literature describing the spontaneous speech data the items in FRAKIS are based on

- Szagun, G. (2001). Learning different regularities: The acquisition of noun plurals by German-speaking children. *First Language*, 21, 109-141.
- Szagun, G. (2004a). German Szagun. Talk Bank. http://childes.psy.cmu.edu
- Szagun, G. (2004b). Learning by ear: On the acquisition of case and gender marking by German-speaking children with cochlear implants and with normal hearing. *Journal of Child Language*, 31, 1-30.
- Szagun, G., Stumper, B. Sondag, N. & Franik, M. (2007). The acquisition of gender marking by young German-speaking children: Evidence for learning guided by phonological regularities. *Journal of Child Language*, *34*, 445-471.

German (Austrian)

Person Preparing Report: Peter B Marschik, Ralf Vollmann, Christa Einspieler

Date: November 4, 2010

Forms	Status	Available for	Norms?	Validity Evidence	Manual?
Developed		Distribution			
CDI:WG	Final	via personal contact	Norms in	Marschik, PB; Einspieler, C;	No manual
CDI:WS	Final	(peter.marschik@me	progress	Garzarolli, B; Prechtl, HF,	yet
CDI-III	Preliminary	dunigraz.at)		2007: Events at early	
				development: are they	
				associated with early word	
				production and	
				neurodevelopmental abilities at	
				the preschool age? Early Hum	
				Dev. 2007; 83(2): 107-114.	
				CDI-III work in progress	

PLANS FOR FUTURE WORK

We are currently planning to submit an application for funding for a pre-doc position in order to continue with the norming procedures; we have also developed a short version for the ages 22-26 months and the routine pediatric assessment in Austria; it is currently under evaluation for implementation in this routine clinical assessment. Depending on the outcome of the evaluation, a norming study will be conducted.

CONTACT INFO AND PUBLICATIONS

Peter B Marschik Institute of Physiology Centre for Physiological Medicine Medical University of Graz Harrachgasse 21/5 A-8010 Graz, Austria Tel:+43-(0)316-380-7629

Fax:+43-(0)316-380-9630

Email: peter.marschik@medunigraz.at

Marschik, PB; Einspieler, C; Garzarolli, B; Prechtl, HF, 2007: Events at early development: are they associated with early word production and neurodevelopmental abilities at the preschool age? Early Hum Dev. 2007; 83(2): 107-114.

Marschik, PB; Vollmann, R; Einspieler, C, 2007: The Austrian-CDI: Late talkers, their lexical knowledge, cognitive and neurological performance at preschool age. In: Eriksson, M editors(s). Proceedings from the First European Network Meeting on the Communicative Development Inventories.. Gävle: Gävle University Press; p. 116. (ISBN: 978-91-974948-8-5)

Marschik, PB; Dibiasi Pansy, J; Vollmann, R; Einspieler, C, 2009: Entwicklungsauffälligkeiten bei transienten und konsistenten Late Talkers. Kinderärztliche Praxis. 2009; (80): 337-342. (Article in German)

Our homepage is currently under construction but information on the Austrian-CDI will be available soon on http://www.medunigraz.at/physiologie/dpdn

Greek

Person Preparing Report: Ursula Stephany

Date: November 18, 2010

Forms Developed	Status	Available for Distribution	Norms?	Validity Evidence	Manual?
CDI:WS	Preliminary	No	Not yet	Not yet	No

PLANS FOR FUTURE WORK

No present plans

CONTACT INFO AND PUBLICATIONS

Prof. Dr. Dimitra Kati, University of Athens: dimkati@ecd.uoa.gr

Prof. Dr. Ursula Stephany

Email: Stephany@uni-koeln.de

Dept. of Linguistics, General Linguistics

University of Cologne, Gemany

Hebrew

Person Preparing Report: Esther Dromi

Date: December 19, 2010

Forms Developed	Status	Available for Distribution	Norms?	Validity Evidence	Manual?
CDI:WG	Final, not commercial use Preliminary, statistical analyses of section B are not completed yet	Researchers and Students get a PDF file from me in email (for both CDIs)	No Norms. Statistical Analyses on a sample of 180 children is available in an unpublished MA thesis. No. Only data published in JCL 2000	NO JCL 2000 Meital et.al.	Not yet. Hope to write one manual for WG and for WS and to publish it as a booklet

PLANS FOR FUTURE WORK

I would like to develop a short form and also eager to find resources/funds to create a www version that people will be able to use via internet. I hope that in the future I will have a graduate student who will choose to work on that project including the publication of a manual in Hebrew.

CONTACT INFO AND PUBLICATIONS

Esther Dromi School of Education Tel-Aviv University Ramat Aviv, Tel-Aviv Israel, 69 979

Fax: 972-3-648-8571

Email: dromi@post.tau.ac.il

Hungarian

Person Preparing Report: Bence Kas

Date: November 20, 2010

Forms	Status	Available for	Norms?	Validity Evidence	Manual?
Developed		Distribution			
CDI:WG CDI:WS	Final Versions	It is not yet available to the public since norming is still in progress, and we plan to publish the instrument together with the norms. Is this the common way with the CDI or do people distribute the instruments without norms?	Norming is in progress, we have collected and processed cross-sectional data from 54 children and are running a longitudinal research with 30 children measured systematically by 2 months.	No, we only measured the validity of some parts in the Words & Sentences form. CDI:WS We conducted two validity studies: (i) for the animal name part of the word list, and (ii) for the case marking morphology part which is new in the Hungarian version. We have published the results in the Hungarian Special Education Review which is available online: http://www.prae.hu/prae/gyosze.ph p?menu_id=102&jid=32&jaid=46 As it is written in Hungarian, I attached a brief summary in English and would appreciate comments on the results and on their potential interest to the international professional community.	No, we are only going to write one for the future publication of the instrument together with the data.

PLANS FOR FUTURE WORK

Yes, we are planning to produce short form of the Words & Sentences for more effective screening purposes. We think that we will be able to select the items for the short form on the base of the data collected with the full version.

CONTACT INFO AND PUBLICATIONS

Bence Kas
Eotvos Lorand University
Department of Phonetics and Logopedics
Ecseri út 3
1097 Budapest, Hungary
email: benkas@barczi.elte.hu

Icelandic

Person Preparing Report: Elin Thordardottir

Date: October 1, 2010

Forms	Status	Available for	Norms?	Validity Evidence	Manual?
Developed		Distribution			
CDI: WS	FINAL	YES,	YES. The	Elin T. Thordardottir & Ellis	YES, (the
	(though it is	Distributed	norms are	Weismer, S. (1996). Language	manual is in
	almost 20	through a	contained in	assessment via parent report:	Icelandic),
	years old	Speech and	a manual	Development of a screening	distributed
	and I have	Language	that is	instrument for Icelandic children.	through a
	considered	Clinic in	obtained	First Language, 16, 265-285.	Speech and
	revising it.	Reykjavik:	with the test		Language
	It was	Talþjálfun	forms from	A preliminary version was	Clinic in
	developed	Reykjavíkur,	Talþjálfun	administerd to 18 children and results	Reykjavik:
	as part of	Bolholti 6,	Reykjavíkur	in vocabulary and grammar were	Talþjálfun
	my Master's	105		compared to language sample data. A	Reykjavíkur,
	thesis in	Reykjavik,		revised version was constructed and	Bolholti 6,
	1993. The	Iceland. It is		again tried on 18 children with	105
	norms were	in wide		comparison to language sample data.	Reykjavik,
	completed	clinical use in		These analyses supported the validity	Iceland. It is
	in 1998)	Iceland.		of the instrument (correlations with	in wide
				language sample measures were very	clinical use in
				high).	Iceland.

PLANS FOR FUTURE WORK

There is a short version, which contains only the vocabulary checklist and section II-E. I have considered revising the checklist and renorming it given that it is 18 years old and I may yet do so.

CONTACT INFO AND PUBLICATIONS

Elin Thordardottir, Ph.D.
Associate Professor
School of Communication Sciences and Disorders
Faculty of Medicine
McGill University
1266 Pine Avenue West
Montreal H3G 1A8
Quebec, Canada

phone: (514) 398-5356 fax: (514) 398-8123

Email: elin.thordardottir@mcgill.ca

Elin T. Thordardottir, Ellis Weismer, S., and Evans, J. (2002). Continuity in lexical and morphological development in Icelandic and English-speaking 2-year-olds. *First Language*, *22*, 3-28.

Irish

Person Preparing Report: Ciara O'Toole

Date: May 5th, 2011

Forms	Status	Available for	Norms?	Validity Evidence	Manual?
Developed		Distribution			
CDI: WS	Preliminary	Yes	Preliminary norms	O'Toole C & Fletcher, P	There is
CDI: WG	Preliminary	No	for W&S. This is	(2010). Validity of a parent	currently no
			made more	report for Irish-speaking	manual for
			complicated due	toddlers. First Language 30	the instrument
			to the bilingual	(2) 199-217	
			nature of the		
			acquisition of Irish		

PLANS FOR FUTURE WORK

Currently extending the norming of Words and Sentences, including children with a wider range of bilingual language exposure. Norming of Words and Gestures has also begun. There are currently no plans for an adaptation of the CDI III

CONTACT INFO AND PUBLICATIONS

Dr. Ciara O'Toole Department of Speech & Hearing Sciences Brookfield Health Sciences Complex College Road University College Cork

Ph: +353 21 4901539 Fax: +353 21 4901542 Email: c.otoole@ucc.ie

O'Toole, C. and Fletcher, P. (2008). Developing assessment tools for bilingual and minority language acquisition. *Journal of Clinical Speech and Language Studies 16*, 12-27 (paper available on request)

O'Toole C & Fletcher, P (2010). Validity of a parent report for Irish-speaking toddlers. *First Language 30* (2) 199-217

O'Toole, C. & Fletcher, P. (2011). Profiling vocabulary acquisition in Irish. *Journal of Child Language First View Articles*, 1-16

URL: http://publish.ucc.ie/researchprofiles/C025/cotoole

Italian

Person Preparing Report: Maria Cristina Caselli

Date: November 29, 2010

Forms	Status	Available for	Norms?	Validity Evidence	Manual?
Developed		Distribution			
CDI:WG	Final	It can be	Norms are		The manual
CDI:WS	versions	downloaded	available, are	Caselli, M. C., Bates, E., Casadio,	can be
		from:	published in the	P., Fenson, J., Fenson, L., Sanderl,	purchased in
		http://www.fr	Manual. Now we	L., & Weir, J. (1995). A Cross-	book stores
		ancoangeli.it/	are working on	Linguistic Study of Early Lexical	or on-line
		area_multime	updating and	Development. Cognitive	(http://www
		diale/elenco_l	expanding existing	Development 10, 159-199.	.francoangel
		ibri.asp?cod=	norms (for children	Caselli, M. C., Rinaldi, P., Stefanini,	i.it)
		1305.5	aged 8-24 months).	S., & Volterra, V. (2009). Actions	
			CDI:WS	and Gestures repertoires in infants	
			Norms are	from 8 to 18 months: relationships	
			available, are	with early words' comprehension	
			published in a book	and production. Età Evolutiva, 93,	
			and can be	70-78.	
			downloaded from:	Caselli, M.C., Vicari, S.,	
			http://www.francoa	Longobardi, E., Lami, L., Pizzoli,	
			ngeli.it/area_multi	C., e Stella, G. (1998). Gestures and	
			mediale/elenco_libr	words in early development of	
			i.asp?cod=1305.83	children with Down syndrome.	
				Journal of Speech, Language and	
				Hearing Research, 41/5, 1125-1135	

PLANS FOR FUTURE WORK

We have created and collected normative data on the Short Form both for the for Words & Gestures and Words & Sentences Forms (respectively for children aged 8-18 months and 18-36 months).

Norms on the Gestures and Words short form are collected and they will be published next year. We are planning to develop the Italian Sign Language Form.

CONTACT INFO AND PUBLICATIONS

M.C. Caselli

Institute of Cognitive Sciences and Technologies- CNR

Via Nomentana 56, 00161 Rome, Italy

Operator: +3906 44161511 Tel: +3906 44161516 Fax: +3906 44161513

Email: cristina.caselli@istc.cnr.it

The websites are:

http://www.istc.cnr.it/createhtml.php?nbr=39

http://www.istc.cnr.it/ladd/

Japanese

Person Preparing Report: Tamiko Ogura

Date: October 1, 2010

Forms	Status	Available for	Norms?	Validity Evidence	Manual?
Developed		Distribution			
CDI:WG	Final	Yes.	Yes. Fitted	Yes. Ogura, T &. Suetsugu, A.	Yes. Kyoto
CDI:WS	Version	Kyoto	Values for 8-18	(2010). "Infant's Receptive	International
	JCDI	International	months for	Vocabulary in a Preferential	Social Welfare
		Social Welfare	JCDI:WG and	Looking Task and Parental	Exchange
		Exchange	16-36 months	Reports" .Paper presented at	Center(Email:
		Center(Email:	for JCDI:WS	CLS. The results provided high	kiswec@mx2.
		kiswec@mx2.wt	are listed in the	external validity for the accuracy	wt.tiki.ne.jp)
		<u>.tiki.ne.jp</u>).	manual.	of receptive vocabulary of JCDIs	For the order
		For the order		and IPL task.	from overseas,
		from overseas,		Fukuda, S., Ogura T. &	the Kinokuniya
		Kinokuniya		Watamaki T.(2007) Nihongo	shoten
		shoten (Email:		MacArthur Nyuuyooji Gengo	(E-Mail:
		nbiz@kinokuniya		Hattatsu Shitsumonshi no	nbiz@kinokuni
		.com)		datousei no	ya.com) .
				Kento. Paper presented at JSDP.	
				The correlations between	
				observational data of play and	
				JCDI: WS was.748 for	
				vocabulary production and was	
				.687 for MSL.	

PLANS FOR FUTURE WORK

At present we do not have any plans to develop the short version of JCDIs.

CONTACT INFO AND PUBLICATIONS

Tamiko Ogura

Department of Child Studies, Tezukayama University,

3-1-3, Gakuen Minami, Nara, 631-8585, Japan,

E-mail: oguratami@tezukayama-u.ac.jp

Tel: +81-742-88-6016

Fax: +81-742-88-6016

Ogura, T. and Watamaki, T. 2004 Technical Manual of the Japanese MacArthur Communicative Development Inventory: Words and Gesture, Kyoto International Social Welfare Exchange Center.

Watamaki, T. and Ogura, T. 2004 Technical Manual of the Japanese MacArthur Communicative Development Inventory: Words and Grammar, Kyoto International Social Welfare Exchange Center.

Kiswahili and Kigiriama

Person Preparing Report: Katie Alcock

Date: October 6, 2010

Forms	Status	Available for Distribution	Norms?	Validity Evidence	Manual?
Developed					
CDI: WG CDI: WS	Final version Some changes would probably be necessary prior to standardization on the function words and the grammar questions.	For researchers working on Kenyan Coastal Kiswahili, or on Kigiriama, it is available by contacting me. For researchers working on other dialects of Kiswahili, or other related languages, contacting me can initiate a dialogue which will help the researcher decide if they wish to go through the appropriate steps to adapt the CDI.	No norms	Yes - this paper is in prep	The paper in prep will provide some instructions (though it will not be a full manual)

PLANS FOR FUTURE WORK

We have one short form for the younger CDI and two, A and B, for the older CDI. Both include words only (not gestures, or grammar questions).

CONTACT INFO AND PUBLICATIONS

Katie Alcock
Department of Psychology
Lancaster University
Fylde College
Lancaster LA14YF

Tel: (+44) (0) 1524 593833 Fax: (+44) (0) 1524 593744 Email: k.j.alcock@lancaster.ac.uk

Alcock, K. J., Rimba, K., Abubakar, A., & Holding, P. (2005). First words in two East African languages. Paper presented at the International Congress for the Study of Child Language, Berlin.

Alcock, K. J., Rimba, K., Abubakar, A., & Holding, P. A. (2007). Development of Communicative Development Inventories for rural Africa. Paper presented at the European Society for Developmental Psychology.

Alcock, K. J., Prado, E., Rimba, K., Kalu, R., Newton, C. R. J. C., & Holding, P. (2010). Parent report of language development in illiterate families the CDI in two developing country settings. Paper presented at the International Society for the Study of Behavioral Development.

Korean

Person Preparing Report: Soveong Pae

Date: November 15, 2011

Forms	Status	Available for Distribution	Norms?	Validity Evidence	Manual?
Developed					
CDI:WG	Final	Yes, contact	Yes, there are	Pae, S. (2003). Validity	Not yet, it will
CDI:WS	Final	spae@hallym.ac.kr,	norms, it will be	and reliability of the	be available in
		kjkwak@snu.ac.kr, only	available through	Korean adaptation of	2011
		for research purpose at this	the Korean	MCDI. Korean Journal	
		moment	Manual (in	of Communication	
			preparation)	<i>Disorders</i> , 8 (2), 1-14.	

PLANS FOR FUTURE WORK

- 1. There are short versions of the M-B CDI-Korean.
- 2. Pae & Kwak are preparing the Korean manual.
- 3. We are preparing the concurrent & clinical validity study for the final version of M-B CDI-K.

CONTACT INFO AND PUBLICATIONS

Soyeong Pae

Professor

Dept. of Speech Pathology & Audiology

Hallym University

Hallym Daehak-gil 39, Chuncheon, Korea

Tel: 82-33-248-2214

E-mail: spae@hallym.ac.kr

- Pae, S. (1993). Early vocabulary in Korean: Are nouns easier to learn than verbs? Unpublished doctoral dissertation. University of Kansas.
- Pae, S. (2003). Validity and reliability of the Korean adaptation of MCDI. *Korean Journal of Communication Disorders*, 8 (2), 1-14.
- Pae, S., Chang-Song, Y., Kwak, K., Sung, H., & Sim, H. (2004). MCDI-K referenced expressive word development of Korean children and gender differences. *Korean Journal of Communication Disorders*, 9 (1), 45-56.
- Pae, S., Kwak, K., Kim, M., Lee, H., & Jung, K. (2008). Short forms versions of MacArthur-Bates Communicative Development Inventories-Korean. *Journal of the Korean Society of Speech Sciences*, 15 (2), 119-129.

Maltese

Person Preparing Report: Daniela Gatt

Date: December 21, 2010

Forms	Status	Available for	Norms?	Validity Evidence	Manual?
Developed		Distribution		-	
Vocabulary checklist of the CDI:WS	Preliminary version	It is available on request.	Preliminary norms are cited in an unpublished PhD manuscript; publications are planned.	Caregiver report was employed as a component of a triangulation of methods to measure the expressive vocabulary of a cohort of 44 12- to 30-month-olds. The checklist measures showed high and significant correlations with measures obtained from spontaneous language sampling (r = .87, p (two-tailed) < .01) and picture naming (r = .85, p (one-tailed) < .01).	There is no manual available

PLANS FOR FUTURE WORK

I would like to continue developing the Maltese adaptation further by collecting checklist data from larger cohorts of children so that a standardized tool may be developed.

CONTACT INFO AND PUBLICATIONS

Dr Daniela Gatt
Department of Communication Therapy
Faculty of Health Sciences
University of Malta

Tel.: +356 23401101

E-mail: daniela.gatt@um.edu.mt

Gatt, D. (2007) Establishing the concurrent validity of a vocabulary checklist for young Maltese children. Folia Phoniatrica et Logopaedica, 59 (6), 297-305.

Gatt, D., Letts, C. and Klee, T. (2008) Lexical mixing in the early productive vocabularies of young Maltese children: implications for intervention. Clinical Linguistics and Phonetics, 22 (4), 267-274.

Mozambique: Changana, Portuguese, Ronga

Person Preparing Report: Paul Vogt

Date: January 6, 2011

Project in progress

The Changana CDI is for use in a rural area, the Ronga/Portuguese one is for use in the urban area of Maputo. For both CDIs, we have carried out a norming survey among 430 (rural) and 300 (urban) subjects. The Ronga/Portuguese list was administered such that parents had to indicate if their infant knew the items on the list in either language irrespective of whether this was in Ronga or Portuguese, so there is – unfortunately – no detailed bilingual information available.

Forms Developed	Status	Available for Distribution	Norms?	Validity Evidence	Manual?
CDI-short form:WG	Final Version	Not Yet	Not Yet	No	No

PLANS FOR FUTURE WORK

The norming study is currently being analyzed and will be reported in a technical report.

CONTACT INFO AND PUBLICATIONS

Dr Paul Vogt
Tilburg center for Cognition and Communication
Tilburg University
P.O. Box 90153
5000 LE Tilburg
The Netherlands

Phone: +31134662594 Email: p.a.vogt@uvt.nl

New Zealand English with Sign Vocabulary

Person Preparing Report: Susan Foster-Cohen

Date: February 8, 2011

Forms	Status	Available for	Norms?	Validity Evidence	Manual?
Developed		Distribution			
CDI:WS	Yes. I have	I am working in	My understanding	The version I am	No. Uses the
	started trialling	collaboration with	is that there are	proposing uses the	same
	the NZCDI with	Staphanie Stokes,	no norms for the	validity of Elaine	assumptions
	Sign version and	Tom Klee and the	NZ CDI version	Reese's NZ CDI. I	as the
	it is going really	New Zealand Institute	developed by	simply need the	standard US
	well. Parents do	of Language, Brain	Elaine Reese but	sign option	version
	not appear to find	and Behaviour at the	that Stephanie	because my	
	the new version	University of	and Tom are now	therapy service	
	any harder to	Canterbury. I would	starting to collect	encourages parents	
	complete than the	like the proposed	this data. My	to use signed	
	verbal version	version to be available	version simply	vocabulary with	
	and preliminary	to NZ colleagues	adds the	children with	
	results suggest it	generally. I would	opportunity to	complex	
	gives a much	also like to think that	respond to the	disabilities. The	
	clearer picture of	others working in a	vocabulary	children's true	
	the vocabulary of	sign plus spoken	questions with a	vocabulary size	
	children exposed	language environment	sign equivalent.	would not be	
	to signs as an aid	would consider		evident without	
	to verbal	adding a sign column		offering this	
	acquisition.	to their local versions.		option.	

PLANS FOR FUTURE WORK

No specific plans at the moment.

CONTACT INFO AND PUBLICATIONS

The research activity of the Champion Centre is only just getting off the ground, so I would be interested in a link once that is a bit better established. However, if you would like to be linked to the New Zealand Institute of Language, Brain and Behaviour website, Tom Klee is the person to contact.

Dr. Susan Foster-Cohen Director, The Champion Centre & Adjunct Senior Fellow, University of Canterbury

The Champion Centre Private Bag 4708 C/- Burwood Hospital Christchurch 8140 New Zealand

Phone: +64 3 383 6867 Fax: +64 3 383 6866 Email: susan.foster-cohen@canterbury.ac.nz www.championcentre.org.nz

North Sami

Person Preparing Report: Kristine Bentzen

Date: November 18, 2010

Adaptation Process starting in January 2011 and tentative ending date in July 2013.

Summary: North Sami is an indigenous language spoken mainly in Northern Norway, but also in Northern Sweden and Northern Finland. It is a Finno-Ugric language, related to Finnish. In Norway there are about 25,000 native speakers of the language, and various measures are currently being taken to revive it.

Planning to develop the CDI:WG and CDI:WS

CONTACT INFO AND PUBLICATIONS

Authors:

Kristine Bentzen – Postdoctor at CASTL and the Department of Language and Linguistics at the University of Tromso, Norway.

Email: kristine.bentzen@uit.no

Berit Anne Bals Baal – Currently finishing her PhD at the Department of Language and Linguistics at the University of Tromso, Norway.

Collaborators:

Marit Westergaard – Professor in linguistics and the director at CASTL Mikael Svonni – Professor at the Department of Language and Linguistics Jorun Hoier – Professor at the Educational Department Professor Kristian Emil Kristoffersen and the group at the University of Oslo

Norwegian

Person Preparing Report: Kristian Emil Kristoffersen

Date: September 30, 2010

Forms	Status	Available for	Norms?	Validity Evidence	Manual?
Developed		Distribution			
	Final Versions		There are norms, which will be made available in a scientific paper. The paper will be submitted in a few weeks from now.	Yes. This will also be made available through the paper mentioned in (c). Kristoffersen, K. E., Simonsen, H. G., Bleses, D., Wehberg, S., Jørgensen, R. N., Eiesland, E. A. & Henriksen, L. Y. (in progress). Development and variation in early communicative skills in infants and toddlers acquiring Norwegian – a CDI-based study.	A manual is in progress, and will be made available, first on the project website, and later published together with the forms.
		authorization is given.			

PLANS FOR FUTURE WORK

We have plans for developing an adaptation into Norwegian of the CDI III We have plans for developing a short form, and hope to have a preliminary version ready before next summer.

CONTACT INFO AND PUBLICATIONS

Contact: Kristian Emil Kristoffersen

Professor

Research group in clinical linguistics and language acquisition

Department of Linguistics and Scandinavian Studies

University of Oslo

E-mail: k.e.kristoffersen@iln.uio.no

Phone: +4722857634

Publications:

Kristoffersen, K. E., Simonsen, H. G., Bleses, D., Wehberg, S., Jørgensen, R. N., Eiesland, E. A. & Henriksen, L. Y. (in progress). Development and variation in early communicative skills in infants and toddlers acquiring Norwegian – a CDI-based study.

URL to website: http://www.hf.uio.no/iln/forskning/prosjekter/spraakutvikling/index.html

Persian

Person Preparing Report: Yalda Kazemi

Date: November 4, 2010

Forms	Status	Available for	Norms?	Validity	Manual?
Developed		Distribution		Evidence	
CDI:WG	Yes, we have a	Yes, the	CDI:WG - There	Yes, An article	CDI:WG -
	preliminary version of	researchers can	are some norms in	has been	It can be
	this form which can be	request it by	Persian-speaking	published in an	prepared
	used in comparative	directly requesting	children who live	Iranian Journal	on
	studies and not	it from me, Yalda	in Isfahan (a	and I have	request.
	diagnostic studies.	Kazemi. It has	central city in	attached it to	
		been sent to	Iran); BUT these	this email. It has	CDI:WS-
CDI:WS	CDI:WS- (Preliminary)	several researchers	norms have been	an English	No
	Not completely, just in	before on their	obtained to find	abstract at the	
	Vocabulary section and	request.	the psychometric	end of the	
	not the sentence part.		measures of	paper.	
	An article about the		validity and		
	results of this study is		reliability of the	CDI:WS	
	being written and		TRANSLATED	Yes, but it is in	
	further studies are		form. So it needs	Persian and it is	
	being planned		to be improved	different from	
			later.	the previous	
				study. It needs	
			CDI:WS no norms	to be translated	
			yet	to English.	

PLANS FOR FUTURE WORK

Absolutely, Yes. Our team is working on the next phase of finding psychometric values of the lexicon part of Infant and toddler forms which is finding the norms in a larger population and in different cities around Iran

CONTACT INFO AND PUBLICATIONS

The Persian article has been attached and everyone who wishes to have the Persian version of CDI (P-CDI) can contact the team organiser, Yalda Kazemi at the following address: Team Information:

Yalda Kazemi - SLP (PhD student at Newcastle University, the UK and Academic member at Isfahan University of Medical Sciences, Isfahan, IRAN): yalda.kazemi@ncl.ac.uk or y.kazemi@hotmail.com

Nayereh Mehdipour - SLP (Lecturer at the University of Welfare and Rehabilitation Sciences, Tehran, IRAN)

Tahereh Sima Shirazi - SLP (Lecturer and PhD student at the University of Welfare and Rehabilitation Sciences, Tehran, IRAN)

Dr. Shahin Nematzadeh (Linguist) - Lecturer at Azahra University, Tehran, IRAN

Polish

[Information from a previous update; unable to obtain current information]

(Data for the norming study are being collected.)

Magdalena Smoczynska
Dept. of General and Indoeuropean Linguistics
Jagiellonian University
Al. Mickiewicza 9/11
31-120 Krakow, Poland
Tel: +(48) (12) 6326377 out 302

Tel: +(48) (12) 6336377 ext. 302

Fax:. +(48) (12) 4226793 Home: +(48) (12) 6341037

Email: ULSMOCZY@Vela.filg.uj.edu.pl

Portuguese (Brazilian)

Person Preparing Report: Elizabeth Reis Teixeira

Date: May 12, 2011

Forms	Status	Available for	Norms?	Validity	Manual?
Developed		Distribution		Evidence	
CDI:WG	CDI:WG There	CDI:WG Even	CDI:WG We have	CDI:WG (See list	The
CDI:WS	is a final	though we have	not been able to finish	of publications	manual is
	version we have	not concluded	the normative study yet.	below)	under
	reached after a	the normative	It is being difficult to		constructi
	couple of	study, we have	find parents willing to	CDI:WG There	on and we
	validation	forwarded the	cooperate. When they	were two	expect to
	studies. This	form to some	do so, they overestimate	subsequent	have it
	was basically	research groups	children's	periods of	published
	achieved	in the country	communicative facts	validation study,	late this
	through	on a tentative	which means we have	and there	year.
	SILVA's	basis, but have	had to disregard a great	were changes in	
	Master's thesis	not had them	amount of	terms of quantity	
	and PhD.	published yet.	data collected	of items from the	
	Dissertation			first to the second	
	under my	CDI:WS Even	CDI:WS We have not	and third	
	supervision.	though we have	been able to finish the	versions. We	
		not concluded	normative study yet. It	have presented	
	CDI:WS In	the normative	is being difficult to find	and published	
	fact, this was	study, we have	parents willing to	papers with	
	the first form	forwarded to	cooperate. When they	students under	
	we adapted.	some research	do, they overestimate	supervision, some	
	There is a final	groups in the	children's	of which relate to	
	version we have	country on a	communicative facts	both forms. (See	
	reached after a	tentative basis,	which means we have	list of	
	couple of	but have not	had to disregard a great	publications	
	validation	published it	amount of data	below and my	
	studies.	yet.	collected.	paper attached)	

PLANS FOR FUTURE WORK

Yes. We are interested in the shortform versions.

CONTACT INFO AND PUBLICATIONS

Elizabeth Teixeira Rua Joao Mendes da Costa Filho 306/302-D Jardim de Alah 41750-190 Salvador, BA Brasil Tel: (0115571) 343-5246 ereist.teixeira@gmail.com

Claudia Tereza Sobrinho Silva

Email: claudia.tsobrinho@gmail.com

Shortly, we will have a URL address

SILVA, C. T. S. O desenvolvimento lexical inicial dos 8 aos 16 meses a partir do *Inventário Macarthur de Desenvolvimento Comunicativo* – protocolo *Palavras e Gestos.* **Dissertação Inédita de Mestrado**, UFBA, 2003.

SILVA, C. T. S. Construindo o vocabulário: desenvolvimento lexical inicial em Português Brasileiro. **Tese Inédita de Doutorado**, UFBA, 2007.

RIBEIRO, C. S. e TEIXEIRA, E. R. A Recorrência das Categorias Semânticas nos CDI's. **Anais do XXVII SEMEP – Seminário Estudantil de Pesquisa.** Salvador, UFBA: 2010.

TEIXEIRA, E.R. CDI's Adaptation to Brazilian Portuguese: Validation Study of the Words and Sentences Form. **X International Congress for the Study of Child Language.** Berlin, 2005. http://www.ctwcongress.de/iascl/download/iascl_abstracts.pdf (revised in 2011 and still unpublished).

TEIXEIRA, E.R. Adaptation of the CDI's Words and Sentences Form to Brazilian Portuguese: Validation Study. 2011 (unpublished paper).

Portuguese (European)

Person Preparing Report: Rosa Maria Lima

Date: October 13, 2010

Forms	Status	Available for	Norms?	Validity	Manual?
Developed		Distribution		Evidence	
CDI: WS	Yes. It is a final version, after piloting and several reviews	People can request it by writing to my email address	Not yet. We are waiting for consent from schools and parents all over the country (a heavy obstacle to deal with, in our country).	No	No

PLANS FOR FUTURE WORK

I have plans for short versions of all 3 CDIs. I also intend on developing CDI: WG and CDI-III.

CONTACT INFO AND PUBLICATIONS

Rosa Lima Universidade de Aveiro - Centro de línguas e culturas Campus Universitário de Santiago 3810-193 Aveiro PORTUGAL

Email: rolima@clix.pt

Romani

Person Preparing Report: Hristo Kyuchukov

Date: December 15, 2010

Forms	Status	Available for	Norms?	Validity Evidence	Manual?
Developed		Distribution			
CDI:WG	Preliminary Preliminary	Available only to my students. I show it to them during the lectures	There are no norms	Yes I have done some empirical research and I did analyze the data and I wrote an article which is in print (Kyuchukov, H. and Samuilov, S. (in print) ADAPTING BATES-MACARTHUR COMMUNICATIVE DEVELOPMENT INVENTORIES (CDI) TO ROMANI: A PILOT STUDY. In J. Stoyanova and H. Kyuchukov (eds)Psychology and Linguistics. Papers in honor of prof. Encho Gerganov. Sofia: Prosveta)	No, there is no manual

PLANS FOR FUTURE WORK

Yes, I have plans for further CDI work in the future.

CONTACT INFO AND PUBLICATIONS

Hristo Kyuchukov

Email: hkyuchukov@gmail.com

Romanian

Person Preparing Report: Dr. Elena Geangu

Date: November 18, 2010

Forms	Status	Available for	Norms?	Validity	Manual?
Developed		Distribution		Evidence	
CDI:WG CDI:WS	There are preliminary versions adapted for the Romanian culture.	Limited availability to others, mainly to professionals for the purpose of receiving comments on its applicability.	Norms have not yet been developed as we are in the process of collecting the data	No	No

PLANS FOR FUTURE WORK

Yes, I have plans for further CDI work in the future.

CONTACT INFO AND PUBLICATIONS

We are expecting to publish the results obtained from the first step of the adaptation process by early summer 2011.

Dr. Elena Geangu
Psychology Department
Durham University
Science Laboratories
South Road DURHAM DH1 3LE, UK
Telephone: 01913343245
Fax:+44(0)191 3343241
E-mail:elena.geangu@durham.ac.uk

Dr. Oana Benga Psychology Department, Babes-Bolyai University 37, Republicii Street, 400015, Cluj-Napoca Romania oanabenga@psychology.ro

Soon there will also be a description of the instrument and project at: http://www.devpsychology.ro/category/projecte/

Russian

Person Preparing Report: S. Ceytlin, M. Eliseeva

Date: February 22, 2011

Forms Developed	Status	Available for Distribution	Norms?	Validity Evidence	Manaul?
CDI:WG CDI:WS	Final versions	Electronic version	Yes, Electronic version	Comparison with the data we have at our disposal. Our Database on Child Language is represented by audiotapes of spontaneous children's speech, parents' diaries, experimental data, etc.;	No

PLANS FOR FUTURE WORK

It depends on many things. We would like to continue our work but research like this is not supported by our authorities and funds.

Shortform version of CDI must be very useful for parents and speech-therapists.

CONTACT INFO AND PUBLICATIONS

Inna Chistovich

Stella Ceytlin Chief of Department of Language Acquisition SPb Russian Pedagogical University Email: stl2006@list.ru

http://ontolingva.ru/mac engl.htm

Besides the results of the work have been used in 4 dissertations of our post-grade students (I.Gridina, A.Bondarenko, J.Puzanova, V.Korolev)

Sasak

Person Preparing Report: Elizabeth Prado, PhD

Date: November 16, 2010

Forms	Status	Available for	Norms?	Validity	Manual?
Developed		Distribution		Evidence	
CDI-III	We have developed a tool designed	It is available by	No, we do	Prado, E. L.,	There is a
CDI:Sentenc	to assess language development in	contacting me at	not have	Hartini, S.,	manual,
es and Using	children age 42 months in Lombok,	elprado@ucdavi	norms.	Rahmawati, A.,	although it
Language	Indonesia. We developed the tool	s.edu.		Ismayani, E.,	consists of
	to evaluate the effect of maternal			Hidayati, A.,	only a few
	multiple micronutrient			Hikmah, N., et al.	paragraph
	supplementation on children's			(2010). Test	S
	language development. The			selection,	explaining
	interview consists of two sections:			adaptation, and	how to
	(1) 8 items consisting of 2 sentence			evaluation: Three	administer
	pairs for assessing grammatical			critical steps to	and code
	complexity, and (2) 8 yes/no			assess nutritional	the
	questions concerning semantics,			influences on	interview.
	pragmatics, and comprehension.			child	It can be
	We did not develop a vocabulary			development in	obtained
	checklist, rather, we assessed			developing	by
	receptive vocabulary using a			countries. British	contacting
	locally developed picture			Journal of	me at
	vocabulary test.			Educational	elprado@
	Final Version			Psychology, 80,	ucdavis.ed
				31-53	u.

PLANS FOR FUTURE WORK

Currently no plans

CONTACT INFO AND PUBLICATIONS

Elizabeth Prado, PhD
Post-doctoral scholar
Program in International and Community Nutrition
University of California at Davis
Email: elprado@ucdavis.edu

- Prado, E. L., Hartini, S., Rahmawati, A., Ismayani, E., Hidayati, A., Hikmah, N., et al. (2010). Test selection, adaptation, and evaluation: Three critical steps to assess nutritional influences on child development in developing countries. *British Journal of Educational Psychology*, 80, 31-53.
- Alcock, K. J., Prado, E. L., Rimba, K., Kalu, R., Newton, C. R. J. C., & Holding, P. (2010, 18-22 July). *Parent report of language development in illiterate families the CDI in two developing country settings*. Paper presented at the 21st Congress of the International Society for the Study of Behavioral Development, Lusaka, Zambia.

Serbian/Bosnian

Person Preparing Report: Slavica Tutnjevic

Date: November 5, 2010

FORMS DEVELOPED

Forms Developed	Status	Available for Distribution	Norms?	Validity Evidence	Manual?
CDI:WS	I have made a preliminary adaptation that I'm using for my PhD Research Project	No	No	No	No

PLANS FOR FUTURE WORK

My plan is to develop a standardized Serbian/Croatian/Bosnian version of the CDI I, II, and III, with norms for the population of Bosnia and Herzegovina, which would include the three language variations (Serbian, Croatian, and Bosnian languages) and two scripts (Latin and Cyrillic), so that the instrument can be used in all parts of Bosnia and Herzegovina. Additionally, with a colleague at the Institute for Psychological Research in Serbia, the plan was to develop a separate version and norms for the population of Serbia, which uses a slightly different form of Serbian Language (E.G. BREAD – HLJEB/HLEB, MILK – MLIJEKO/MLEKO ETC.).

CONTACT INFO AND PUBLICATIONS

Slavica Tutnjević

Email: slavicatutnjevic@gmail.com

Darinka Anđelković

Email: dandjelk@f.bg.ac.r

Singapore: English, Malay, Mandarin

Person Preparing Report: Tan Seok Hui

Date: May 5, 2010

FORMS DEVELOPED

Forms	Status	Available for	Norms?	Validity Evidence	Manual?
Developed		Distribution		-	
CDI:WG	This version	Yes, speech language	Yes, there are	We did a pilot study on the	There isn't a
CDI:WS	is final, but I	therapists use it for	some data	CDI data and language	manual at
	would	assessment purposes	available for	sample of a small number	the moment.
	consider	but have agreed not	the instrument	of children (20 or less) a	There is a
	adding more	to distribute to other	published in a	while ago and found they	document
	items	SLTs without	book chapter.	were correlated to each	which cross
	following	permission. Currently	Tan, S.H.	other although the	lists the
	some results	three SLTs in	(2010).	language sampled word	items across
	of recent data	different clinics in	Multilingual	types reached a ceiling	all three
	collection if it	Singapore	Infant	(30minute observations). It	languages
	indicates that	restructured (semi-	Vocabulary in	was difficult to get local	and against
	we have	government)	Singapore. In	families to participate so	the original
	missed out	hospitals use it to	M. Cruz-	the data collection was	MacArthur
	some words	assess their infants.	Ferreira (Ed.)	discontinued.	Bates CDI.
	which quite a	An SLT team in a	Multilingual	The results were presented	
	number of	local special school	Norming.	for a poster presentation at	
	children know	has also used it to	Peter Lang.	a conference:	
	at that age	assess vocab in their		Tan, S.H., Liu, D., Affandi,	
	(and which	early intervention		H., & Chen, L. (2006)	
	aren't in the	programme (children		Vocabulary development	
	original	with Downs and		in bilingual infants in	
	MacArthur-	GDD aged 5 years		Singapore. Poster	
	Bates CDIs).	and below). We will		presented at International	
		also be using it in an		Conference for the	
		ongoing longitudinal		Japanese Society for	
		study.		Language Sciences in	
				Tokyo, Japan.	

PLANS FOR FUTURE WORK

We may look at shortform versions in the future but are concentrating on the CDI II. We're not currently working on at a CDI III at the moment. We have a Tamil version for CDI II, and will be collecting pilot data on it (June 2010 onwards) and will forward that version when we have finalised the items for it. We hope to use the data to examine the predictive validity of both I and II CDIs with respect to later language (preschool) skills.

CONTACT INFO AND PUBLICATIONS

Dr Tan Seok Hui Department of Psychology National University of Singapore 11 Law Link AS6 Level 3 Singapore 117570

Email: psytsh@nus.edu.sg Phone: +65 6516 8768

We have a research blog at our lab: http://blog.nus.edu.sg/infantlab/about.

In addition to the book chapter, and the conference poster listed above, we also presented portions of the data from the book chapter (before it was published) at these conferences:

Tan, S. H. (2009). Vocabulary development in multilingual 1- and 2-year-old Singaporean infants. Poster presented at Biennial Meeting for the Society of Research in Child Development on 3 April 2009, in Denver, Colorado, USA.

Tan, S. H., & So, W.-C. C. (2008). Vocabulary development in multilingual 12- to 30-month-old Singaporean children. Paper presented at Conference on Bilingual Acquisition in Early Childhood, at the Chinese University of Hong Kong, Hong Kong.

I have also amended the information as our Tamil version will be finalized this month and will be ready by 1 June 2011

Slovak

Person Preparing Report: Svetlana Kapalková and Daniela Slančová

Date: November 10, 2010

Forms	Status	Available for	Norms?	Validity	Manual?
Developed		Distribution		Evidence	
Developed CDI:WG CDI:WS	We have a final version. It has already been published in Slovak language under the title Test komunikačného správania I: Slová a gestá (TEKOS I) [Test of communicative behavior: Words and Gestures I]. We have the final version. It has already been published in Slovak language under the title Test komunikačného správania II: Slová a vety (TEKOS II) [Test of communicative behavior: Words	There are two ways how to get to the TEKOS I AND II: 1. the paper version. It has been published as a part of the book Hodnotenie komunikačných schopností detí v ranom veku (s testami a normami) [Assessment of communicative abilities of early-aged children (with tests and norms)]. 2. on-line version: http://laboratorium.det skarec.sk/	Yes, there are norms for Slovak-speaking children from 8-30 months. They are available as a part of the book Hodnotenie komunikačných schopností detí v ranom veku (s testami a normami) [Assessment of communicative abilities of earlyaged children (with tests and norms)].	Face validity and content validity, Concurrent validity, Predictive validity	The manual Hodnotenie komunikačný ch schopností detí v ranom veku (s testami a normami) has been published by the Slovak Association of Speech Therapists and can be ordered and bought at the publisher's.

PLANS FOR FUTURE WORK

One of the different activities connected with the potential CDI-III is to find out proper materials for the evaluation of the narrative structures for the children aged 3 -6 years. We have been cooperated with other researchers from different countries. As a very preliminary step, we have made a study on how the parents and the teachers are able to assess their children's narrative skills.

CONTACT INFO AND PUBLICATIONS

Daniela Slancova

Email: slandan@unipo.sk

Svetlana Kapalkova

Email: kapalkova@fedu.uniba.sk; kapalkova@chello.sk

http://laboratorium.detskarec.sk/ as TEKOS I and TEKOS II

Kapalková, S., Slančová, D., Bónová, I., Kesselová, J., Mikulajová: Hodnotenie komunikačných schopností detí v ranom veku (s testami a normami). Bratislava: Slovenská asociácia logopédov 2010. 110 s. ISBN 978-80-89113-83-5

Kapalková, Svetlana – Slančová, Daniela: Vývin komunikačných schopností dieťaťa v ranom veku z hľadiska dvoch metodologických prístupov. In: Jazyk a kultúra. Prešov: Filozofická F akulta PU 2010, www.ff.unipo.sk/jak/1 2010/kapalkova slancova.pdf. s. 1 – 14

Kapalková, Svetlana, Laciková, Hana, Slančová, Daniela, Helbich, Miroslav: Test komunikačného správania TEKOS I: Gestá a slová – nový nástroj na hodnotenie komunikačnej schopnosti detí v ranom veku. In: Psychológia a patopsychológia dieťaťa. r. 45, č. 1, Bratislava: VÚDPaP 2010. s. 46 – 62

Slančová, Daniela – Kapalková, Svetlana: Pragmatické funkcie a spôsoby ich realizácie a reflexie v ranom období vývinu detskej reči. In: Užívaní a prožívaní jazyka. Praha: Karolinum 2010. s. 461 – 466

Kesselová, Jana – Kapalková, Svetlana: Výskum detskej reči – východisko slovenskej verzie testu CDI. In: Kvalitativní přístup a metody ve vědách o člověku. Olomouc: Univerzita Palackého 2009. s. 279 – 288

Spanish (Columbian)

Persons Preparing Report: Maria Fernanda Lara. and Angela Gomez **Date:** February 28, 2011

Forms	Status	Available for	Norms?	Validity Evidence	Manual?
Developed		Distribution		-	
CDI:WG	At present the	Currently	As outcome of the	The mentioned Report also	Currently
CDI:WS	CDI counts	there is not a	adaptation and	includes a complete Statistical	there is no
	with a	version	normalization	and Psychometrical results	Manual
	Colombian-	available to	process a Report	section, where the main	for the
	Spanish	the public. In	was produced. This	measures are presented. The	CDI
	adaptation,	the future it is	report includes a	main validity content of this	Spanish-
	this version is	expected that	section of Fitted	section is here reproduced.	Colombia
	completed	the CDI in the	percentile tables for	As per the degree in which	available.
	(fully	form of a	the different	Inventories constitute an adequate	
	assembly,	Manual and	Inventory sections,	and representative sample of the	
	piloted, tested	Inventory will	these percentiles	content being evaluated, the	
	and	be available to	were obtained	MacArthur Bates inventories have	
	normalized)	specialized	based on the	been credited with a high content	
	but not final	users.	standard procedures	validity drawn from the extended	
	due to the		and considerations	research process conducting to	
	number of		appearing in the	their formulation. As the	
	participants,		various CDI	Colombian version follows as	
	which is		Manuals used as	close as possible the original	
	desired to		reference (EE.UU,	English version, content validity	
	increase to		Spanish and	come from the fact that	
	achieve a		Mexican version)	inventories include the major	
	more		and corrected for	aspects of communicative	
	statistical		the Colombian	developments. Also, experts who	
	significant		sample.	reviewed inventories considered	
	sample.		771 . 1.1	pertinent items included	
			The tables are not	evaluating the most relevant	
			yet available to the	features of early Communication.	
			general public due	For the Colombian case, the CDI	
			to the sample size	also shares aspects evaluated with	
			considerations	the Colombia's government	
			mentioned above,	general development instrument:	
			but it is one of the	The Development Abbreviated	
			main Research	Scale (Heath Ministry), created	
			Team goals to	guided by the observations of a	
			generate a fully	panel of experts on the initial	
			comprehensive normalization	pediatric follow ups, this confirms	
			document that may	content validity. Convergent and Concurrent	
			serve as guiding	Validity is to be determined for	
			document for the	the Colombian standardization of	
			Colombian and	the inventories, obtaining data for	
			international	convergence between CDI and	
			population.	observation as well as other	
			population.	oustivation as well as other	

	standardized measures is a purpose of the Colombian
	1 1
	research group.
	Currently, Predictive validity is
	under research as children who
	have been surveyed with CDI will
	be re-tested consistently to
	determine to what extend
	measures associate and if
	predictive assertions could be
	made
	Preliminary report. Investigation
	summary. Spanish-Colombia
	normalization of the Macarthur-
	bates communicative
	development inventories CDI.
	p.47

PLANS FOR FUTURE WORK

The future work on the inventories is oriented to broaden sample and produce deeper – finer analysis of the obtained information. Also, a complete analysis of vocabulary checklist is desirable for a frequency per category relation being created for the Colombian sample.

The adaptation and normalization of the CDI III would be desirable in order to extend the sample and the comprehension of the language development in Colombian samples.

CONTACT INFO AND PUBLICATIONS

Contact: Maria Fernanda Lara Diaz MSc., PhD.

Profesora Asistente

Departmento de comunicacion Humana

Facultad de Medicina Oficina 515 A 3165000 ext. 15197

Email: mflarad@unal.edu.co

Lara, M.F., Mesa, C., Gómez, A., Gálvez, D., & Serrat, E. (En prensa) Normativización del CDI Inventario del Desarrollo Comunicativo MacArthur-Bates al Español-Colombia. *Revista Latinoamericana de Psicología*. ISSN 0120-0534.

Lara, M.F, Serrat, E, Gómez, a. Preliminary Report.(2010). Investigation summary. Spanish-colombia normalization of the Macarthur Bates Communicative Development Inventories. CDI. Unpublised Document.

Gómez, A., Lara, M.F., & Serrat, E. (2010) Normativización al Español Colombia de los Inventarios del Desarrollo Comunicativo CDI: MacArthur-Bates Communicative Development Inventories. Poster presentado en el VI Congreso Internacional de Adquisición del Lenguaje. Barcelona, del 8 al 10 de Septiembre de 2010.

http://www.docentes.unal.edu.co/mflarad/

Spanish (Cuban)

Person Preparing Report: Barbara Zurer Pearson

Date: December 28, 2010

1
No. In the past, I shared a memo with people who inquired, but it is no longer available No. In the past, I shared a memo with people who inquired, but it is no longer available
d th /p d itl e in

PLANS FOR FUTURE WORK

I am pleased to see that the Spanish CDI authors are in the process of getting a short form published (in a journal, I believe). This is not a field we currently work in.

CONTACT INFO AND PUBLICATIONS

Barbara Zurer Pearson Research Associate c/o Dept of Linguistics 226 South College University of Massachusetts Amherst Amherst, MA 01003

Tel: 413-545-5023 Fax: 413-545-2792 Email: bpearson@research.umass.edu

Pearson, B. Z., (1998). Assessing lexical development in bilingual babies and toddlers. International Journal of Bilingualism, 2, 347-372 (Special issue on bilingual acquisition, A. DeHouwer, Ed.)

Spanish (European)

Person Preparing Report: SUSANA LÓPEZ ORNAT

Date: October 26, 2010

Forms	Status	Available for	Norms?	Validity	Manual?
Developed		Distribution		Evidence	
CDI:WG	Final versions	Published	Published	Published	YES, FROM
CDI:WS		2005 (see	2005 (see	2005, 2006	EDITOR
		Manual	Manual	and 2007, see	(Madrid, TEA
		below)	below)	recent	Ediciones; see
			·	publications	Manual
					below)

PLANS FOR FUTURE WORK

SHORT FORM FINISHED 2005. Presented 2005

CONTACT INFO AND PUBLICATIONS

Susana López-Ornat Dpto. Psicología Básica II Facultad de Psicología Univ. Complutense de Madrid

Madrid, Spain 28223 Tel: 91 394 3115

Email: equial@psi.ucm.es www.ucm.es/info/equial

Note: First publications and presentations (years 2003 and 2004) appeared under name i-LC, used before agreement was reached with the MCDI board. After agreement with board, since 2005, all publications and presentations appear under the name **European Spanish** MCDI

MANUAL:

S.López Ornat, C.Gallego, P.Gallo, A.Karousou, S.Mariscal y M.Martínez (2005) MacArthur: Inventario de desarrollo comunicativo. Manual y Cuadernillos; Madrid, TEA Ediciones. ISBN: 84-7174-820-7

PUBLICATIONS*

- S. López Ornat, C. Gallego, P.Gallo, A. Karousou, S.Mariscal & S.Nieva (2003) LC: Un instrumento de medida del desarrollo comunicativo y lingüístico temprano (8-30 meses) basado en las Escalas MacArthur. Boletín de la AELFA, 3, 3-7.
- S. López Ornat. & A. Karousou (2004) Las vocalizaciones tempranas (8-30 meses) y su relación con el vocabulario y la gramática. Su medida en el iLC: resultados preliminares. Communication at IV Congreso Internacional sobre la Adquisición de las

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lenguas del estado. Univ. Salamanca. In Congress' CD-Rom.

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- S.Mariscal & S.López Ornat (2007) The (European) Spanish CDI2: a new adaptation of the grammar part. In (Ed) M.Eriksson: Proceedings 1st European Network Meeting on the CDIs. Gävle University Press, 42-50. ISBN: 978-91-974948-8-5.

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Spanish (Mexican)

Person Preparing Report: Donna Jackson-Maldonado

Date: October 5, 2010

Forms	Status	Available for	Norms?	Validity	Manual?
Developed		Distribution		Evidence	
CDI: WG	Final versions	Yes- For sale	Yes,	Yes,	Yes, Brookes
CDI: WS		by Brookes	Published on	Published in	Publishing
		and in	the CDI Web	the manual	Company and
		Mexico,		and in JSLHR	Manual
		Manual		2001	Moderno
		Moderno			

PLANS FOR FUTURE WORK

Short Form already is normed and publication has been submitted. CDI-III is in norming stage. Norms will be available August 2011.

CONTACT INFO AND PUBLICATIONS

Contact:

Donna Jackson-Maldonado Facultad de Lenguas y Letras Universidad Autónoma de Querétaro México

tel: 52 442 192 1200 ex. 6120

home 52 442 2180264

Email: djacksonmal@hotmail.com http://www.donnajackson.weebly.com

Swedish

Person Preparing Report: Mårten Eriksson

Date: September 30, 2010

Forms Developed	Status	Available for Distribution	Norms?	Validity Evidence	Manual?
CDI: WS CDI-III	Final for CDI: WG and WS Preliminary for CDI-III	Available after request	The norms are available from the manual, see attachment.	The Swedish Early Communicative Development Inventories (SECDI)-w&g (words and gestures; 8-16 months) and w&s (words and sentences; 16-28 months)is a new instrument to assess communicative and language abilities in Swedish speaking children. Test-retest reliability and content validity of SECDI were examined. The results show that the SECDI covers common words in Swedish children's vocabulary and that its grammar scale (w&s) incorporates items that develop early among many children. Test-retest was analysed over 2 or 3 months, first for 57 and then for 60 children. Test-retest reliability scores are as follows: SECDIw&g = between 0.70 and 0.90 in most age ranges; and SECDIw&s = close to or above 0.90 on most measures. From: Berglund, E., & Eriksson, M. (2000). Reliability and content validity of a new instrument for assessment of communicative skills and language abilities in young Swedish children. <i>Logopedics Phonology Vocology, 25</i> , 176-185.	Available after request

PLANS FOR FUTURE WORK

CDI-III under development

CONTACT INFO AND PUBLICATIONS

Contact: Mårten Eriksson,

Department of Social Work and Psychology, Faculty of Health and Occupational Studies, University of Gävle, SE-801 76 Gävle, Sweden

Email: marten.eriksson@hig.se.

On forms and norms in typical and atypical populations:

Berglund, E., & Eriksson, M. (2000). Communicative development in Swedish children 16-28 months old. The Swedish early communicative development inventory - words and sentences. *Scandinavian Journal of Psychology, 41*, p. 133-144.

Berglund, E., Eriksson, M., & Johansson, I. (2001). Parental reports of spoken language skills in children with Down syndrome. *Journal of Speech, Language and Hearing Research, 44*, p. 179-91.

Berglund, E., Eriksson, M. & Westerlund, M. (2005). Communicative skills in relation to gender, birth order, childcare and SES in 18-month-old children. *Scandinavian Journal of Psychology*, *46*, 485-491.

Eriksson, M., & Berglund, E. (1999). Swedish early communicative development inventory - words and gestures. *First Language*, *19*, no 55, p. 55-90.

Short forms developed for screening:

Eriksson, M. Westerlund, M., & Berglund, E. (2002). A screening version of the Swedish Communicative Development Inventories designed for use with 18-months-old children. *Journal of Speech, Language and Hearing Research*, 46.

Westerlund, M., Eriksson, M., & Berglund, E. (2004). A short-term follow-up of children with poor word production at the age of 18 months. *Acta Paediatrica*, *93*, p. 702-706.

Westerlund, M., Berglund, E. & Eriksson, M. (2006). Can severly language delayed 3-year olds be identified at 18 months of age? Evaluation of a screening version of the MacArthur-Bates communicative development inventories. *Journal of Speech, Language and Hearing Research*, 49, p 237-247.

Validation studies:

Berglund, E., & Eriksson, M. (2000). Reliability and content validity of a new instrument for assessment of communicative skills and language abilities in young Swedish children. *Logopedics, Phoniatrics Vocology*, 25, p. 176-185.

Eriksson, M. (2001) Narratives validates communicative development inventories. *Applied Psycholinguistics*, 22, p. 45-60.

Comparisons between language communities:

Eriksson, M., Marschik, P.B., Tulviste, T., Almgren, M., Pérez Pereira, M., Wehberg, S., Marjanovič Umek, L., Gayraud, F., Kovacevic, M., Gallego, C. (in press). Differences between girls and boys in emerging language skills: Evidence from 10 language communities. *British Journal of Developmental Psychology*.

Tamil

Person Preparing Report: Nitya Sethuraman

Date: September 30, 2010

Forms	Status	Available for	Norms?	Validity	Manual?
Developed		Distribution		Evidence	
CDI: WS	I have a version that	Yes, I have	No	No	No
	I consider	made it			
	extremely	available to			
	preliminary. It is	people who			
	mainly just words	have emailed			
	and three longest	me directly with			
	utterances. I'm	requests. I've			
	working on	asked that they			
	developing	share any data			
	something to	they collect with			
	measure	me so that I may			
	grammatical	continue to			
	complexity.	improve the			
		form.			

PLANS FOR FUTURE WORK

It is in my long-term plans to further develop the Tamil CDI and collect enough data to make it possible to have item-level data, write a manual, etc.

CONTACT INFO AND PUBLICATIONS

Contact: Nitya Sethuraman

Department of Behavioral Sciences

4012 CB

University of Michigan-Dearborn

Dearborn, MI 48128 (313)-593-5139

Email: nitya@umd.umich.edu

Turkish

Person Preparing Report: Ayhan Aksu-Koç & Aylin Küntay

Date: October 17, 2010

Forms	Status	Available for	Norms?	Validity Evidence	Manual?
Developed		Distribution			
CDI: WG CDI: WS	Final	Yes. We have been already distributing pdf files to some researchers.	The norms will be ready by the end of this year.	Those data are in the process of being collected. I expect the results will be available by the end of 2011. 152 Turkish speaking mother-child dyads including 48 infants and 104 toddlers are to be included in this study. All of the children will be healthy, full-term children without any neurological disorder. The children will be approximately equally distributed across the age ranges and across the family socio-economic status. Mothers of children will be contacted by means of snowball sampling and asked to participate in the study. All mothers will be current residents of Istanbul and three other Turkish cities: Adana, Ankara, and Eskişehir. The children will be videorecorded with their primary caregivers for 45 minutes in three different segments, where the researcher provides different sets of toys and a storybook to the dyad. After the videorecording session, the CDI data will be obtained from the primary caregiver.	Not yet

PLANS FOR FUTURE WORK

We are going to consider building a short form soon. We are part of the narrative group that might be appended to CDI-III

CONTACT INFO AND PUBLICATIONS

Dr. Aylin Küntay Department of Psychology Koç University Rumeli Feneri Yolu Sariyer 34450 Istanbul, Turkey

Email: akuntay@ku.edu.tr

We have only one publication, which is a proceeding paper. The citation is: Acarlar, F., Aksu-Koç, A., Küntay, A.C., Maviş, İ., Sofu, H., Topbaş, S., Turan, F. (2009). Adapting MB-CDI to Turkish: The first phase. In S. Ay, Ö. Aydın., İ. Ergenç, S. Gökmen, S.

İşsever, and D. Peçenel (Eds.) Essays on Turkish linguistics: Proceedings of the 14th International Conference on Turkish Linguistics, August 6-8, 2008. Harrassowitz Verlag: Wiesbaden, Germany.

Welsh-English Bilingual

Person Preparing Report: Debbie Mills

Date: October 13, 2010

Forms	Status	Available for	Norms?	Validity	Manual?
Developed		Distribution		Evidence	
CDI: WG	Preliminary	Not yet	We will be collecting norms - but are currently seeking funding	Validity measures are part of the plan both behavioral and ERP measures	There will be

PLANS FOR FUTURE WORK

Perhaps - just starting now. I do plan a web-based version for helping to collect normative data. Phase II, developing CDI: WS

CONTACT INFO AND PUBLICATIONS

We are working on developing a URL.

Debbie Mills, Ph.D. School of Psychology Bangor University Adeilad Brigantia Penrallt Road Gwynedd LL57 2AS United Kingdom

Tel: +44 (0) 1248 388572 Fax: +44 (0) 1248 38 2599 Email: d.l.mills@bangor.ac.uk

Web: http://www.psychology.bangor.ac.uk/research/staff_profile.php?person=debbie_mills

Yiddish

Person Preparing Report: Isabelle Barriere, PhD

Date: November 13, 2010

Forms	Status	Available for	Norms?	Validity Evidence	Manual?
Developed		Distribution		•	
CDI:WS	Preliminary	People can contact	Data have	I have been granted a	There is no
		me and use it for	been	small PSC-CUNY grant	manual yet but
		research purposes,	collected on	that is enabling us to	the plan is to
		not clinical purposes.	120 children	start checking the	produce one in
		If they do so they	between 14	validity of the measure.	2011-2012 after
		should 1. double	and 38	Audio-recordings of	100 more
		check that it is	months.	speech samples of 40	questionnaires
		adapted to the	However	children between 18 and	are collected
		culture and regional	norms are not	36 months have been	and if the
		variations of the	available yet	made and CDI data have	validity study
		speakers they are		been collected on the	reveals positive
		investigating and b)		same children. The	correlations
		include a reference		audio-recordings are	between the
		to a book chapter		being transcribed.	adaptation and
		that described the		Once this process is	the speech
		development of the		completed, applications	samples
		adaptation and pilot		for funding will be made	
		data.		to funding agencies that	
				grant more important	
				budgets	

PLANS FOR FUTURE WORK

As explained above this is the last time this long version is being administered: a shorter version will be developed on the basis of the items that are always and never selected.

CONTACT INFO AND PUBLICATIONS

Isabelle Barriere, PhD
Director of Policy for Research & Education
Yeled v'Yalda Early Childhood Center
& Co-Director, YvY Research Institute
6012 Farragut Road, Brooklyn NY 11236

Fax: 718 209 1171

Tel: 718 209 1122 Ext. 237 & Assistant Professor

Department of Speech Communication Arts & Sciences

Brooklyn College, City University of New York

Individual office: 2149A Ingersoll/ Departmental office: 3439 Boylan

2900 Bedford Avenue, Brooklyn, N.Y. 11210 Fax: 718 957 4167 Tel: (718) 951-3061

URL: http://www.yeled.org/res.asp

http://www.brooklyn.cuny.edu/pub/Faculty Details5.jsp?faculty=795

Publication

Barrière, I. (2010) The vitality of Yiddish among Hasidic infants and toddlers in a low SES preschool in

Brooklyn. W. Moskovich, (ed.) *Yiddish - a Jewish National Language at 100*. Proceedings of Czernowitz Yiddish Language 2008 International Centenary Conference, Jerusalem-Kyiv, series "Jews and Slavs", Vol. 22: 170 - 196.

Obtaining Authorization for Adaptations of the

MacArthur-Bates Communicative Development Inventories

Revised March, 2008

The MacArthur-Bates Communicative Development Inventory (CDI) Board is gratified by the research and clinical usefulness of the CDI instruments, and welcomes their adaptation into as many of the world's languages as possible. However, it is important that adaptations of the CDI adhere to shared standards and procedures that make them genuinely comparable to the original and thus insure some degree of coherence and consistency across versions. Furthermore, given the extensive work required to develop an adequate adaptation, it is important that appropriate academic and other resources be available for the project, and that duplication be avoided. For these reasons, the CDI Board authorizes specific adaptations of the CDI, using the following guidelines:

- **A.** The research team should have appropriate competence and resources for generating a successful adaptation, including norming and validation. We encourage collaboration among researchers in these projects. When the resources and plans are appropriate, a full, exclusive authorization (Level I) will be granted. In other cases, an individual researcher or group of researchers may wish to develop an adaptation for a specific research project, such as a dissertation, without plans for full norming and validation. In these cases, a limited, nonexclusive authorization (Level II) will be granted, which does not include the right to use the term "MacArthur" or "CDI" in the title, or to distribute the form to others. This does not preclude a later individual or research group from proposing a full adaptation
- **B.** The proposed adaptation should contain the major communicative structure categories that are in the original. Specifically, adaptations of the CDI:Words & Gestures should assess receptive and expressive vocabulary, and gestures. Adaptations of the CDI:Words & Sentences should assess expressive vocabulary and grammar, the latter in a format appropriate to the structure of the language. Adaptation of other components of the original CDIs is optional, as is the addition of new components not in the English CDIs. New components should be consistent with the general CDI approach, which is parent-report, primarily in a recognition format.
- **C.** CDI adaptations covering a closely related language or an additional dialect may be authorized when they provide unique appropriateness beyond previously authorized versions. For example, we have authorized adaptations for Mandarin and Cantonese versions of Chinese; for German and Austrian German; and for several of the closely related languages of Spain , i.e., European and Mexican Spanish, Galician, and Catalan. Each is a separate and unique project. Authors submitting a request for authorization to develop instruments for a language or dialect close to one for which there is an existing, authorized adaptation should include information about the differences which they believe justify the proposed new forms. Minor differences in pronunciation or vocabulary items can generally be handled by writing in the variations on existing forms.

Both parent report and vocabulary checklists have long histories antedating the development of the CDI, and nothing here precludes the development of qualitatively different instruments along other lines. Those instruments, however, should not be characterized as MacArthur or MacArthur-Bates CDIs. Investigators unsure whether their work might infringe on the copyright of the CDIs are invited to address their questions to the CDI Advisory Board. Investigators interested in developing an authorized adaptation of the CDI should follow these steps:

- 1. Describe the proposed project, addressing the guidelines listed above, and submit this proposal to the MacArthur-Bates CDI Board. Philip Dale (dalep@unm.edu) is the contact person for these requests. The request should include
- a statement of the nature of the proposed adaptation, including which forms will be adapted and the plan for the adaptation, plans for norming and validation (if any), and in the case of languages closely related to those with existing authorization, an explanation of the need for a new adaptation
- names and vitas for the principal authors of the adaptation
- an approximate timetable

The CDI Board will provide written authorization of approval, and would be happy to maintain contact during the development period, if the research team finds consultation useful.

- 2. When the adaptation is complete, a copy should be sent to the MacArthur-Bates CDI Board (again via Philip Dale) for final approval. Only with this final approval, provided in writing, is use of the term "MacArthur-Bates CDI" or equivalents permitted. Approved adaptations will be listed on the CDI website (http://www.sci.sdsu.edu/cdi/) with links to the instrument and to the adaptation team. Note that there is no requirement that the term "MacArthur-Bates CDI" be used in the title of adaptations; it is entirely optional. However, if it is not used in the title, a footnote or other prominent note should be included on the form acknowledging that this is an authorized adaptation of the MacArthur-Bates CDI.
- **3.** Authors of approved versions who wish to explore commercial publication of their MacArthur-titled instruments must obtain explicit, written permission from the CDI Board, holders of the CDI copyright. This permission will normally be granted automatically, with no charge, for all languages other than English or Spanish, if the previous steps have been followed. All authorizations for publication by the CDI Board are for specific adaptations whose development has been previously authorized, and have no implications for other adaptations. For adaptations into other dialects of English or Spanish, our copyright and contractual arrangements with Brookes Publishing entail a negotiated agreement with Brookes as well as with the CDI Board.

Some Suggestions for the Adaptation of the MacArthur-Bates Communicative Development Inventories to Additional Languages¹

Philip S. Dale, Larry Fenson, and Donna Thal November 3, 1993

The validity and efficiency of the MacArthur Communicative Development Inventories as a measure of language development between 8 and 30 months (Fenson, Dale, Reznick, Thal, Bates, Hartung, Pethick & Reilly, 1993) have led several research groups to develop similar measures for other languages. Versions of the CDIs have been developed and normative data have been collected for Italian (Caselli & Casadio, 1993) and Spanish (Jackson-Maldonado, Thal, Marchman, Bates, & Guiterrez-Clellen, in press). Adaptations have also been developed and preliminary data collected in Japanese (Ogura, Yamashita, Murase, & Dale, 1993) and in American Sign Language (Reilly, Provine, & Bellugi, 1993). Versions are currently being developed in Hebrew, Chinese, German, Swedish, British English, and several other languages.

These adaptations are motivated by both research and clinical needs. From a research perspective, cross-linguistic research has provided much fruitful data for formulating and evaluating theories of language development (Slobin, 1985; 1992). The extent to which the early phases of language development, in particular, remain similar or diverge in languages of differing structure provides crucial evidence for the existence and nature of basic "operating principles" of language development. Yet cross-linguistic research, like research on the acquisition of English, has been generally limited to the study of very small samples. A comparison of two or three children acquiring one language, with two or three children acquiring a different language, has only limited interpretability in the absence of information about variability among children acquiring those languages. An apparently large contrast between the two groups may simply reflect sampling fluctuation in the two populations; alternatively, a genuine difference may be obscured by sampling variation in the opposite direction. Information is needed on the nature, time course, and stability of individual differences in the acquisition of each language. This basic science understanding of variation is also essential for the diagnosis and remediation of language disorders. Investigation of individual differences necessarily requires large samples of children; parent report is ideally suited for this purpose.

This brief list of suggestions is directed to investigators preparing to develop a communicative development inventory based on parental report.

1. Each new inventory is necessarily an adaptation, not a translation, of the CDIs. Languages and cultures differ substantially in both the form and content of their communication systems, and there is every reason to believe that even in the earliest phases of development differences will be noticeable in gestural communication, vocabulary, and grammar. For example, Ogura et al. (1993) included bowing as an early-emerging gesture, while Jackson-Maldonado (in press) include "tortellitas" (little tortillas), a variant of pattycake used in Mexico. In the domain of vocabulary, it is obvious that there can be major differences in clothing, food, and household items.

- 2. Grammatical features are likely to be even more different from one language to another. This raises problems for measuring vocabulary, as well as grammar. Consider, for example, the problem that Italian researchers face in constructing a list of nouns and verbs. Which inflected form of the noun or verb should they use on the word checklist? Caselli and Casadio followed the convention of using singular nouns and verbs in the infinitive form. Languages with a rich inflectional morphology system are especially difficult. The English list includes different entries for "am," "are," and "be." In a language like Italian, listing all forms separately in this way would enormously lengthen the list. In the Sentence Complexity section, assessing grammatical development, the selection of which aspects of grammar to include, and how to capture early syntax and morphology must be done on the basis of knowledge of the acquisition of each language. We believe the forced-choice, sentence pair format developed for the English-language CDI will prove valuable in most languages.
- 3. The English-language CDIs have many subparts. The core components of the CDI: Words and Gestures are a 396 word vocabulary checklist (comprehension and production), and a 63 item list of gestures. The core components of the CDI: Words and Sentences are a 680 word vocabulary checklist (production only) and a set of 37 sentence pairs to assess sentence complexity. These have the greatest validity as general measures of language development for English, and similar scales are likely to be the most important in other languages. It is not essential to adapt the other, more minor portions of the CDIs.
- 4. It is very important to keep in mind from the outset the need for multiple iterations in the development process. The CDIs represent the culmination of nearly 20 years of research, beginning with interviews. Even as questionnaires, they have evolved through more than half a dozen forms in the past decade. In each cycle of revision, previously collected data have been used to modify, add, or omit selected items in order to improve clarity, internal consistency, and validity. It is best to develop the first version or two on a small scale, concentrating on obtaining the information necessary to revise the inventory before proceeding to a larger-scale norming study.
- 5. In the process of iteration, it is most effective to begin with a more open-ended format, in which parents are invited to list additional words and gestures, and perhaps even sentences. In this way, a more inclusive list of potential items appropriate for the widest possible range of young children in the linguistic community of interest will be generated. At each step, information from a modest number of parents across the full age range can be used to modify the inventory on the basis of item frequency, clarity of questions, etc. Information from language samples is also highly valuable for identifying possible additions. Later in the development process it is important to shift to the checklist format for the collection of norms, in order to remove the variance that would otherwise be introduced by parental reporting style and recall abilities.

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- 6. Items with relatively low frequency are appropriate for the instrument (along with higher frequency items), in order to provide an assessment across the full range of age and language ability. In the development of the English-language forms, only items with an overall frequency of less than 5% were dropped on the basis of frequency alone.
- 7. The developers of the English-language MacArthur Communicative Development Inventories had the advantage of being part of a sizable collaborative team, with an adequate amount of time (many years), and access to substantial samples of children. This will often not be the case in other linguistic communities. We believe the highest priority should be given to going through the revision cycle at least twice with a modest number of parents (perhaps 25-30) before attempting to obtain norms from a larger number of children. For the norming process itself, we recommend a minimum of 40 children at each age for which norms are being obtained. (It may not be appropriate or necessary at first to obtain norms at each month of age, depending on the intended use of the instrument.)
- 8. Finally, even though numerous studies have documented the validity of the CDIs for English, it is highly desirable to conduct validity studies of the newly adapted forms, comparing parental CDI information with information from structured tests and/or language samples.

¹ Portions of the material in this paper have been adapted from: Fenson, Larry, Dale, Philip S., Bates, Elizabeth, Reznick, J. Steven, & Thal, Donna. (1994). Variability in early communicative development. <u>Monographs of the Society for Research in Child Development</u>, 59, Serial No. 242.