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Communication difficulties with limited English proficiency patients: Clinician perceptions of clinical risk and patterns of use of interpreters

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Communication Difficulties with Limited English Proficiency patients – clinician perceptions of clinical risk and patterns of use of interpreters (Original Article)

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Communication Difficulties with Limited English Proficiency patients – clinician perceptions of clinical risk and use of interpreters

ABSTRACT

AIMS: To explore clinicians' perceptions of the communication difficulties experienced with Limited English Proficiency (LEP) patients and the clinical risks these difficulties pose in hospitals, as well as patterns of interpreter use among these clinicians.

METHODS: Senior health professionals in the two District Health Boards in the Wellington Area (about 900) were sent an electronic survey. Twenty clinicians were interviewed about their experience in 22 consultations with LEP patients, and an equal number with English proficient patients. Descriptive statistics were calculated, and 95% confidence intervals and formal statistical tests.

RESULTS: One hundred and forty-one responses were received to the survey. There was a high level of awareness of how to access interpreters (84%) and lesser awareness of DHB interpreter policy (65%). Most respondents felt that communication difficulties with LEP patients have a significant effect on care at least sometimes, but there is a wide variation in reported actual use of interpreters, with only 14% always using an interpreter. In the actual consultations studied, no professional interpreters were used despite clinician acknowledgement of increased clinical risk.

CONCLUSION: Clinician awareness of policy, of how to obtain interpreters, and of the increased clinical risk in the situation does not lead to high levels of interpreter use with LEP patients.

OR

Even when clinicians are aware of policy, of how to obtain interpreters, and of the increased clinical risk in the situation, this does not necessarily lead to high levels of interpreter use with LEP patients.

NZ has an increasingly diverse population, and health services now deal with significant numbers of Limited English Proficiency (LEP) patients. The international literature shows that identifiable misunderstandings occur far more frequently in consultations with LEP patients¹, and that failure to use a professional interpreter leads to increased risk of adverse outcome.²⁻³ Language barriers have been found to increase risks to patient safety ⁴⁻⁵ and affect clinicians' ability to understand symptoms and treat disease.⁶ Despite these risks, interpreters are often not used for complex reasons that go beyond time constraints and lack of interpreter availability, with doctors often preferring to 'get by' without an interpreter even when interpreters are readily available.⁷ In many cases, family members are relied upon for interpreting.⁷⁻¹³

The small amount of New Zealand research in this field has shown that bilingual medical students are on occasion asked to interpret for patients in hospitals, sometimes resulting in unsafe practice,¹⁴ and that there are difficulties in communication with LEP patients for general practitioners in Auckland.^{10, 15-16} There is no evidence available on how frequently communication is a problem for LEP patients in NZ hospitals.

District Health Boards in areas with large immigrant populations now have policies that interpreters be used for LEP patients¹⁷⁻¹⁹. For example, Capital & Coast DHB's policy states that an interpreter is required when "health professionals assess that an interpreter is necessary to ensure safe and adequate assessment, planning, and intervention of care and treatment, e.g to obtain informed consent", outlines the risks of using untrained interpreters, gives guidance on how to assess the need for an interpreter and how to use one, and states who should bear the cost.

Interpreting services are still not fully developed in New Zealand, and there is no New Zealand accreditation system for interpreters. Telephone interpreters are now readily available, since the establishment in 2003 of "Language Line" which provides affordable, accessible telephone interpreting services. In most circumstances they are able to provide an interpreter at the time of the request in many languages, often utilising interpreters in Australia. However, uptake is only slowly increasing, and the service is only available from 9am to 6pm Monday to Friday and 9am to 2pm on Saturdays..

While the literature on use of interpreters in medical care has frequently explored patient and/or clinician satisfaction, effects on quality of care, and patterns of use, we have found none that specifically explores clinicians' perceptions of the increased clinical risk when interpreters are not used. The aim of this study is to explore clinicians' perceptions of the communication difficulties experienced with LEP patients and the clinical risks these difficulties pose in hospitals in the Wellington area. It also explores patterns of interpreter use among these clinicians.

METHODS

The study was conducted in two phases, the first a survey of senior health professionals in the two District Health Boards in the Wellington Area, and the second a questionnaire targeted to a small number of clinicians as they actually encountered LEP patients. Approval to conduct this study was granted by the Central Regional Ethics Committee.

Phase One

In Phase One of the study, an e-mail asking respondents to complete a survey online was sent to all clinicians who consulted independently in Wellington, Kenepuru and Hutt Hospitals - this included senior doctors, registrars, dentists, physiotherapists, occupational therapists, social workers and nurses in Capital Coast District Health Board (CCDHB) and Hutt Valley District Health Board (HVDHB). We excluded house surgeons and ward nurses but included district nurses and specialist nurses (diabetes, respiratory etc). In addition, paper copies of the survey were also distributed in the Emergency Department of Wellington Hospital, and the survey link may have been forwarded by some respondents to colleagues. In total the survey was distributed to around 900 health professionals.

A list of survey questions is provided in Appendix 1. In addition to demographic questions, the survey asked clinicians questions about:

- what languages they speak
- how often they see LEP patients
- how often they use interpreters (professional or otherwise) with LEP patients
- their awareness of DHB policy on interpreters and knowledge of how to access them, and
- whether they felt that communication difficulties significantly affected their care of LEP patients.

Within the survey, an LEP patient was defined as "a person for whom English is not their first language AND whose level of English limits the extent of communication in the consultation. This group includes 1) Speakers with very little English, such that consultation is not possible without an interpreter OR 2) Speakers with some English but insufficient English to conduct a comprehensive consultation."

Data were exported from the online survey to Microsoft Excel/Access for data cleaning (e.g. removing duplicate responses) and further organisation (e.g. calculating number of languages spoken by each respondent.) Descriptive statistics were calculated using

Microsoft Excel; 95% confidence intervals and formal statistical tests were calculated using R (R 2.9.1, R Foundation, Austria).

Phase Two

Phase Two of the study investigated the actual communication between a small number of LEP patients and clinicians in patient consultations, and an equal number of English proficient patient consultations. This phase was conducted predominantly in the Emergency Department (ED) of Wellington Hospital where there was clinician support for the research. Some interviews were also conducted at the ED Short Stay Unit, a medical ward where patients were transferred from ED, the Medical Assessment and Prioritisation Unit, the Outpatient Department, the Pacific Congestive Heart Failure Unit, and the Neonatal Unit.

When a patient presented who was registered as born outside NZ, a research nurse spoke with the clinician to determine if there had been any language difficulty. When language difficulty was identified, the nurse interviewed the clinician at a convenient time and noted their answers to a questionnaire (see Appendix 2). To provide a comparison group, the clinician was interviewed regarding consultation with the next English proficient patient after this LEP patient. Questions covered whether this was a first consultation with the patient, the complexity of the consultation, any communication difficulties, whether there was extra clinical risk as a result of these, as well as the clinician's assessment of the patient's English speaking ability and details of any interpreter usage. The research nurse also noted any additional comments that the clinician made about communication with LEP patients in general. The same list of questions was used for the LEP patients and the comparison group patients.

Data Analysis

Descriptive statistics were mostly used to summarise clinicians' responses. For categorical data regarding knowledge and use of interpreters, 95% confidence intervals are reported in the text. Ordinal data on frequency of interpreter use and frequency of communication problems were analysed using non-parametric tests, as noted in the results section – non-parametric equivalents of the t-test/ANOVA for comparing answers between groups (Wilcoxon Signed Ranks Test, Mann-Whitney test, Kruskal-Wallis test), and non-parametric versions of correlations (Spearman's rank correlation coefficient) when asking whether scores on one ordinal variable were associated with higher scores on another ordinal variable. McNemar's chi square statistic was used to ask whether knowledge of DHB policy was independent of practical knowledge on how to access interpreters.

RESULTS

Phase One

A total of 141 responses were received, which was a 15.6% return rate. Not all survey responses contained answers to all questions.

Demographic Characteristics

Most of the respondents (85%) were of European (64% NZ European) ethnicity (calculated using prioritised ethnicity²⁰), with the remainder split between Asian (5.7%), Maori (3.5%), Pacific (2.8%) and Other (2.1%). They were predominantly female (64%). In terms of positions held, the largest group of respondents were Senior Medical Officers (38%), with significant numbers of registrars (24%) and nurses (21%). Senior House Officers made up 5% and Others (12%) included six occupational therapists, five social workers, four senior dentists, a hand therapist and a midwife. The level of experience of the respondents ranged from 1 year to 42 years, with a median of 15.5 years.

Language Background of Respondents

Most respondents (72%) were monolingual English speakers, but more than a quarter (28%) were bi- or multi-lingual.

New Zealand Europeans had a lower level of bi- or multi-linguality compared to other ethnicities, as shown in Table 1.

Prioritised	Num language	ber of es spoken	% who speak more than one language
Ethnicity	1	2 or more	
NZ European	79	10	11.2%
European	16	16	50.0%
Maori	3	2	40.0%
Pacific	2	2	50.0%
Asian	2	6	75.0%
Other	0	3	100.0%
Total	102	39	27.7%

Table 1: Number of languages spoken by respondents, by ethnicity (Phase One)

The most commonly spoken additional languages were European languages, as shown in Table 2.

Languages spoken in addition to English	Number of respondents	% of total respondents
European languages	34	23.9%
Eastern Asia languages	9	6.3%
African languages	7	4.9%

Table 2: Languages spoken by respondents (Phase One)

Central Asian languages	4	2.8%
Pacific languages (inc Maori)	4	2.8%
Middle Eastern languages	2	1.4%
NZ Sign Language	1	0.7%

Respondents' interaction with LEP patients and interpreters

About a third of respondents (32.17%) reported seeing no LEP patients on a regular basis, and almost another third saw one to two patients per week, as shown in Figure 1. About 35% saw three to seven LEP patients per week.



Figure 1: Number of LEP patients seen per week

The survey asked two questions about interpreter use: "When you see a patient with Limited English Proficiency (LEP) do you use an interpreter?" and "Do you use a professional interpreter (paid by the DHB)?", with responses on a five point scale ranging from 'never' to 'always'. Results are shown in Table 3.

Table 3: Frequency of interpreter use (Phase One)

	Never		About half		Always	No response
Interpreter	7	29	40	41	19	7
use	(5%)	(21%)	(29%)	(30%)	(14%)	,
Professional Interpreter	17 (13%)	37 (27%)	34 (25%)	27 (20%)	20 (15%)	8
use	(-0/0)	(_//0)	()	(_0/0)	()	

Although few respondents reported never using any form of interpreter, there is wide variation in the frequency of interpreter use among those who do. A slightly higher proportion reported never using <u>professional</u> interpreters with again a wide variation of frequency of use.

More respondents reported knowing how to access an interpreter if they needed one (84%; CI = 77-89%) than reported awareness of their DHB's policy on interpreters (65%; CI = 56-72%). Twenty-five percent lacked awareness of both the policy and of how to access professional interpreters (CI = 18-33%), while 60% knew both the policy and how to access professional interpreters (CI = 50-67%).

Answers to these two questions appeared to group together (85% of all respondents answered yes to both or no to both) and there was no tendency for respondents to either know the DHB policy but not how to access interpreters, or vice versa (McNemar chi square = 0.273, p = 0.602).

Most respondents felt that communication difficulties with LEP patients have a significant effect on care at least some of the time, with 49% feeling that difficulties occurred more than half the time (see Table 4).

Table 4: Perceived frequency of significant effect of communication difficultieson care of LEP patients (Phase One)

	Never		About half		Always	No response
Frequency	4	37	28	39	27	Q
(percentage)	(3%)	(27%)	(21%)	(29%)	(20%)	0

Correlations between variables

Table 5 shows the results of various statistical tests to explore the relationships between reported frequency of interpreter use and other variables.

 Table 5: Statistical Test results for relationships with frequency of interpreter use

Variable	Test	result
Variable	Interpreters in general	Professional interpreters
Mono-lingual or multi-	Mann-Whitney U = 1688,	Mann-Whitney $U = 1430.5$,
lingual	p=0.310	p=0.038
		(new target alpha = 0.025
		for two comparisons)
Position held	Kruskal-Wallis chi-square	Kruskal-Wallis chi-square
	statistic (3 d.f.) = $1.89, p =$	statistic (3 d.f.) = $0.64, p =$
	0.595	0.888
Years of experience	Spearman's rho = 0.217 , p	Spearman's rho = 0.217 , p
	= 0.011	= 0.034
		(new target alpha = 0.025)
Awareness of DHB policy	Mann-Whitney U = 1794,	Mann-Whitney U = 1494,
	p=0.161	p=0.005
Knowledge of how to access	Mann-Whitney U = 916.5,	Mann-Whitney $U = 691.5,,$
professional interpreters	p = 0.044	p < 0.001
Number of LEP patients	Spearman's correlation -	Spearman's correlation
seen each week	0.166, p = 0.053	coefficient = -0.257 , p =
		0.003

There were no significant differences in reported frequency of interpreter use in general according to whether respondents were mono-lingual or multi-lingual respondents, what

position they held, or how aware of DHB policy they were, although professional interpreter use was higher among those with awareness of policy.

Years of experience was associated with more frequent interpreter use in general. There was weak evidence of an association with more frequent use of <u>professional</u> interpreters (although this relationship was not significant after adjusting for multiple tests).

Knowledge of how to access professional interpreters was associated with more frequent use of both interpreters in general and professional interpreters.

Respondents who see more LEP patients per week (considered as an ordinal variable) tend to use interpreters less frequently as a proportion of all LEP patients. This relationship was strongest for professional interpreters. For interpreters in general, the findings were inconclusive (falling outside the required level when alpha was adjusted for multiple comparisons).

There was weak evidence that multi-lingual respondents used professional interpreters <u>less</u> frequently than mono-lingual respondents but this result was not significant after adjusting for multiple comparisons.

Table 6 shows shows Mann-Whitney results that indicate that there were no differences in clinicians' perceptions of communication difficulties with LEP patients relating to awareness of DHB policy or how to access professional interpreters.

Table 6: Statistical Test results for relationships with perception ofcommunication difficulties with LEP patients

Variable	Test result
Awareness of DHB policy	Mann-Whitney U = 2039 , p= 0.818
Knowledge of how to access	Mann-Whitney U = $1055, p = 0.248$
professional interpreters	

Phase Two

Questionnaires were administered to 20 clinicians (six doctors, 13 registered nurses and one radiographer) regarding 22 LEP consultations (13 in ED) and 21 English proficient consultations. In two cases, the same patient was seen by two clinicians and data was gathered on each consultation separately.

Most of the LEP patients (87%) spoke very little or only intermediate English, as judged by the clinicians (Table 7).

Table 7: Clinician Perception of English speaking ability of LEP patients seen inPhase Two

English speaking ability	Number of LEP patients
Native English Speaker or equivalent	0 (0%)
Fluent (fluent English Speaker with some limitations)	3 (13%)

Intermediate (some English but insufficient to conduct	7 (32%)
a comprehensive consultation)	
Very little (so little that a basic consultation is not	12 (55%)
possible without an interpreter)	

Differences between the LEP consultations and the control group that might affect the quality of the communication were tested. The complexity of the consultation was rated higher for the LEP patients than for the controls (Related-Samples Wilcoxon Signed Ranks Test = 0.38), although whether clinician perception was skewed by the confounding communication difficulties, or whether LEP patients may present with more complex issues (possibly due to a reluctance to face the communication difficulties for less complex issues) is not able to be determined.

The perceived communication difficulties in the LEP consultations were judged to increase clinical risk, as shown in Table 8.

Was there extra clinical risk as a result of the communication difficulties?				
Type of risk	Uncertainty as to	Uncertainty that	Uncertainty that	Part of the history
	whether medical	treatment regime	informed consent	was avoided due
	terms were	was understood	was adequately	to communication
	understood		obtained	difficulty
Median	3	3	3	1
1 st Quartile	2	1	1	1
3 rd Quartile	4.75	4	5	4

Table 8: Cliniciar	n perception of	clinical risk in LEF	consultations in	Phase Two
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Degree of risk: 1=minimal; 3=moderate; 5=considerable

Interpreter Use

An interpreter was used in 17 of the 21 LEP consultations, none of whom were professional interpreters. No telephone interpreters were used, although in one consultation an attempt was made to obtain one. Family members were used in 11 consultations, a nurse was used in four consultations, and other ad hoc interpreters (social worker or member of a refugee group) were used in two consultations.

The nature of the communication difficulties that clinicians experienced were mostly problems with patients' responses (no response, yes/no responses only, or variable responses), apparent lack of comprehension by the patient (including difficulty with following instructions) and clinician difficulty in understanding the patient. In three consultations, the patient's condition (dementia or Parkinson's) also contributed to communication difficulties.

DISCUSSION

This study shows that hospital clinicians do perceive there to be clinical risk associated with the communication difficulties that they face with LEP patients, but despite this,

rarely use trained interpreters. There is a clear mismatch between actual practice and the relatively high levels of awareness of policy, methods of accessing interpreters and the significance of communication difficulties for quality of care. Although 20% of respondents in Phase One felt that communication difficulties with LEP patients significantly affect their care, and 84% claim to know how to access professional interpreters, only 14% report always using an interpreter.

In the study of actual practice (Phase Two), most of the 22 consultations with LEP patients used an interpreter but none used trained interpreters, and in only one case was an attempt made to engage one, again despite the clinicians' acknowledgement of extra clinical risk in most cases. The finding that family members were the most commonly used form of interpreter accords with the literature. One consultation was (in the clinician's view) successfully interpreted by a family member such that there was minimal clinical risk, which suggests that there are situations where such interpreters may be appropriate, but in most other consultations, the clinicians perceived risk in this practice.

These results contrast with the relatively higher use of professional interpreters found in a general practice in Newtown, Wellington, but where family members were also commonly used, often satisfactorily²¹. The very different contexts probably account for these differences.

In the Phase One survey, no significant differences in the frequency of use of trained interpreters were found between clinicians of different demographics (e.g. more experience, being multilingual themselves etc). A higher level of bi- or multi-linguality was found in the surveyed population than in the general population (17.5%²²), although less than in a study of doctors in Auckland in which more than half spoke more than one language¹⁵. The relatively high level or bi- or multi-linguality may reflect the foreign-born status of many doctors and/or be a selection effect in that speakers of more than one language are more interested in or aware of language issues and thus more likely to respond to the survey. However, the hypothesis that such clinicians would be more sensitive to the issues and more likely to use interpreters was not borne out. Awareness of DHB policy did seem to be associated with greater use of trained interpreters, and more experienced clinicians did report higher interpreter use in general, including untrained interpreters. These two points indicate that training to make clinicians more aware of policy and to share the knowledge and awareness that their more experienced colleagues attain over time would increase the frequency of use of interpreters.

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This study has limitations in that only clinician perspectives were examined, and the response rate to the Phase One survey was low. It is possible that the opinions of those people who responded to the survey are different from the opinions of non-responders, leading to potential bias in the results. Given that further information was not available on the non-responders, it is not possible to speculate on the potential direction of this bias.

It is not clear whether all respondents interpreted the question asking them how often they used interpreters (as opposed to "professional interpreters") in the same way, as some may not have counted use of family members in this role when answering this question. The number of actual consultations studied in Phase Two was also small and mostly limited to those in ED due to logistical difficulties. Patient perspectives and actual clinical outcomes would be useful measures to study in future research.

Trained interpreters were found to be seldom used in hospitals. The question remains as to why this is the case. It is clearly not because clinicians feel that current practice is satisfactory. Future research will be needed to explore the possible explanations for this, which might include a problem with current policy (which may be too prescriptive or not realistic); lack of clinician training in the risks involved, what their alternatives are and the complexity of the judgement required in deciding on the appropriate strategy; budget constraints; availability of interpreters (e.g. the 9 to 5 nature of 'Language Line' is of limited use in ED); or underlying (unacknowledged) attitudes of clinicians toward LEP patients.

Other research has found that improving systems, monitoring interpreter use²³ and training in interpreter use⁶ increase the rates of usage of interpreters. Such measures, especially the training of clinicians in the complexity of the issues surrounding communication with LEP patients, would be useful since this study suggests that awareness of policy and of how to obtain interpreters, and even of the increased clinical risk in the situation, is not sufficient to change clinician behaviour.

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REFERENCES

- 1. Roberts C, Moss B, Wass V, Sarangi S, Jones R. Misunderstandings: a qualitative study of primary care consultations in multilingual settings, and educational implications.[see comment]. Medical Education. 2005; 39(5):465-75.
- 2. Flores G. The impact of medical interpreter services on the quality of health care: a systematic review. Med Care Res Rev. 2005; 62(3):255-99.
- 3. Karliner LS, Jacobs EA, Chen AH, Mutha S. Do professional interpreters improve clinical care for patients with limited English proficiency? A systematic review of the literature. Health Serv Res. 2007; 42(2):727-54.
- 4. Divi C, Koss R, Schmaltz S, Loeb J. Language proficiency and adverse events in US hospitals: a pilot study. International Journal for Quality in Health Care. 2007.
- 5. Cohen AL, Rivara F, Marcuse EK, McPhillips H, Davis R. Are language barriers associated with serious medical events in hospitalized pediatric patients? Pediatrics. 2005; 116(3):575-9.
- 6. Karliner LS, Perez-Stable EJ, Gildengorin G. The language divide: The importance of training in the use of interpreters for outpatient practice. J Gen Intern Med. 2004; 19(2):175-83.
- 7. Diamond LC, Schenker Y, Curry L, Bradley EH, Fernandez A. Getting by: underuse of interpreters by resident physicians. J Gen Intern Med. 2009; 24(2):256-62.
- 8. Atkin N. Getting the message across-professional interpreters in general practice. Aust Fam Physician. 2008; 37(3):174-6.
- 9. Auckland Area Health Board. Report of the Working Party on Interpreting Services, Cartwright Implementation Taskforce, Editor. Auckland Area Health Board: Auckland; 1990.
- 10. Chan I, Lloyd T, Tong K. The use of interpreters by South Auckland GPs. New Zeal Fam Physician. 1999; 26(4).
- 11. Garrett PW, Forero R, Dickson HG et al. How are language barriers bridged in acute hospital care? The tale of two methods of data collection. Aust Health Rev. 2008; 32(4):755-64.
- 12. Gerrish K. The nature and effect of communication difficulties arising from interactions between district nurses and South Asian patients and their carers. J Adv Nurs. 2001; 33(5):566-574.
- 13. Kuo DZ, O'Connor KG, Flores G, Minkovitz CS. Pediatricians' use of language services for families with limited English proficiency. Pediatrics. 2007; 119(4):e920-7.
- 14. Yang C-F, Gray B. Bilingual medical students as interpreters--what are the benefits and risks? NZ Med J. 2008; 121(1282):15-28.
- 15. Wearn A, Goodyear-Smith F, Everts H et al. Frequency and effects of non-English consultations in New Zealand general practice. NZ Med J. 2007; 120(1264):U2771.
- 16. Gray B. English language difficulties at general practices in Auckland, New Zealand: a major limitation to good practice. NZ Med J. 2007; 120(1264).
- 17. Auckland District Health Board. The Interpreter Service. Available at: <u>www.adhb.govt.nz/downloads/services/interpreter-manual.pdf</u> Accessed 4 October 2010.
- 18. Capital & Coast District Health Board. Use of interpreter services (Version No. 3): Wellington, New Zealand; 2010.
- 19. Camplin-Welch V. Cross-Cultural Resource for Health Practitioners working with Culturally and Linguistically Diverse (CALD) Clients. Waitemata District Health Board and Refugees as Survivors NZ Trust: Auckland, New Zealand; 2007.

- 20. Ministry of Health. Ethnicity Data Protocols for the Health and Disability Sector. Available at: <u>http://www.moh.govt.nz/moh.nsf/indexmh/ethnicity-data-protocols-feb1994</u>. Accessed 12 October 2010.
- 21. Gray B, Hilder J, Donaldson H. Why don't we use trained interpreters for all Limited English Proficiency patients? is there a place for using family members? Australian Journal of Primary Health. In press.
- 22. Statistics New Zealand. Quick Stats about Culture and Identity (2006 Census Data). Available at: <u>http://stats.co.nz/Census/2006CensusHomePage/QuickStats/quickstats-about-a-subject/culture-and-identity/languages-spoken.aspx</u>. Accessed 12 October 2010.
- 23. Standiford CJ, Nolan E, Harris M et al. Improving the provision of language services at an academic medical center: ensuring high-quality health communication for limited-English-proficient patients. Academic Medicine. 2009; 84(12):1693-7.

APPENDIX 1: Survey used in Phase One

Research Survey on LEP	
1.	
1. Which DHB are you working in?	
Capital & Coast DHB	
C Hutt Valley DHB	
2. Name (First name then Last name)	
3. Position	
C Nurse	
C Physiotherapist	
Registrar	
 Senior Medical officer 	
C Other (please specify)	
4. Gender	
C Male	
C Female	
5. How Many Years Since Qualification (enter as	s a number please e.g. 3)
6. Which Ethnic Group do you belong to?(tick as	s many boxes as apply)
Chinese	New Zealand European
Cook Island Maori	Niuean
🗖 Indian	Samoan
🗖 Maori	🗖 Tongan
Others (please specify)	
	a
	Z
2.	

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search Survey on LEP	
What Language(s)did you grow up	with?
Cantonese	Mandarin
Cook Island Maori	🗖 Maori
🗖 English	Niuean
🗖 Gujarati	🗖 Samoan
🗖 Hindi	Tongan
Others (please specify)	
8. What other language(s) do you spe	eak fluently?
Cantonese	🗖 Mandarin
Cook Island Maori	Maori
🗖 English	Niuean
🗖 Gujarati	Samoan
🗖 Hindi	Tongan
Others (please specify)	
9. What Languages do you use during	J consultations?
Cantonese	Mandarin
Cook Island Maori	Maori
English	Niuean
🗖 Gujarati	Samoan
🗖 Hindi	Tongan
Others (please specify)	
	the Limited English Desfining (LED)2 places as we with a

whom English is not their first language AND whose level of English limits the extent of communication in the consultation. This group includes 1)Speakers with very little English, such that consultation is not possible without an interpreter OR 2) Speakers with some English but insufficient English to conduct a comprehensive consultation.

	number
Daily	
Weekly	
Monthly	

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₹€	esearch	Su	rvey	/ on L	.EP)
	11. When	you se	ee a p	atient wi	ith L	imited I
		Never		half		Always
	Frequency	с	с	c	¢	c
з.						
	12. Do you	ı use a	a prof	essional	inte	rpreter
		Never		about balf		Always
	Frequency	c	c	C	c	с
	13. Are yo	u awa	re of	the DHB	Poli	cy on In
	C No					
	C Yes					
	14. Do you	ı know	v how	to acces	ss a	professi
	C No					
	C Yes					
	15. Comm	unicat	tion di	fficultie	s are	e commo
	patients.					
	Do you thi	nk the	ese di	fficulties	sigi	nificant
		Never		about half		Always
	Frequency	c	c	c	c	c

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Appendix 2: Questionnaire used in Phase Two

Does communication difficulty with Limited English Patients increase physician assessed likelihood of adverse outcome?

1. Was this the first time you had seen this patient? (1) yes (2) no

2. What was the complexity of the consultation?

1. Simple 2. 3.Moderate	e 4.	5. Complex

3. Were there communication difficulties? (a) Yes (b) No

4. If yes what were the nature of these difficulties

5. If communication difficulties were present how did you identify this?

6. Was there extra clinical risk as a result of the communication difficulties?

a) Uncertainty as to whether medical terms were understood..

1. Minimal 2.	3. Moderate	4.	5. Considerable
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b) Uncertainty that treatment regime was understood.

c) Uncertainty that informed consent was adequately obtained.

	1. Minimal	2.	3. Moderate	4.	5. Considerable
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d) Part of the history was avoided due to communication difficulty (eg sexual history)

1. Minimal	2.	3. Moderate	4.	5. Considerable

e) Other

7. How would you describe this patient's English Speaking Ability?

- a) Native English Speaker or equivalent
- b) Fluent English Speaker (fluent) with some limitations
- c) Speaker with some English but insufficient to conduct comprehensive consultation (intermediate)
- d) Speaker with so little English that a basic consultation is not possible without interpreter (very little)
- 8. Did you use an Interpreter? (a) Yes (b) No

9. If "Yes", was this Interpreter

- a) Professional Accredited (e.g Language Line, Wellington Community Interpreters)
- b) Paid not accredited (Some Hospital employed interpreters are not accredited)
- c) Ad Hoc: family member, friend not paid.

10. Was the Interpreter present: (a) in the room or (b) via telephone?

11. If an interpreter was used how was this achieved?:

- a) Arranged ahead of the appointment
- b) Brought by the patient
- c) Telephone interpreter engaged at the time.

Thank you for your participation