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**Word-finding Difficulties in Bilingual Aphasia: Implications for Speech and
Language Therapy**

Volume 2

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The City University

Department of Language and Communication Science

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VOLUME 2

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**TEXT BOUND CLOSE TO
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INFORMATION SHEET (for control participants)

Project Title:

Word finding difficulties in bilingual aphasia: implications for speech and language therapy

Investigators:

Dr. Jane Marshall (City University); Dr. Tim Pring (City University); Matthew Hardwick (Speech and Language Therapy Manager, Barts and the London NHS Trust); Stephen Croft (City University)

The project is funded by:

Barts and the London NHS Trust

We invite you to take part in a research study that we think is important. This information sheet tells you about the study, and what is involved if you decide to take part. The choice to take part in this project is entirely yours. Please ask any questions you have about the research and we will try our best to answer them.

Background:

Aphasia is a language problem caused by brain damage, such as stroke. Aphasia often makes speech slow, with word finding problems. Reading and writing may be difficult. If the person is bilingual (uses more than one language), both languages will be affected.

What is the aim of the project?

This project aims to find out about aphasia in bilingual people who use Bengali-Sylheti and English. We want to find out if language problems in Bengali-Sylheti and English are similar and if speech and language therapy helps with those problems.

Why are we asking you to be involved?

We are asking you because you are bilingual in Bengali-Sylheti and English.

What will be involved?

Our project has developed four new language tests in Bengali-Sylheti and English. These tests are very simple. For example, we show the person a picture and ask them to name it.

We plan to use these tests with aphasic people to find out about their language problems. We also need to know how bilingual speakers who do not have language problems cope with the tests. This is where you can help. Later we will compare your results with the results of people with aphasia.

Are there any benefits?

The project should teach us more about aphasia, particularly in speakers of Bengali-Sylheti and English. It should help us to work more effectively with aphasic people from the Bengali-Sylheti community.

Is taking part voluntary?

Absolutely. You only take part if you want to. You can join the project and then decide that you don't want to carry on. This is fine; you can leave at any time. You can stop at any time and this will not disadvantage you in any way. We will not pay you to be involved but we will pay your expenses if you have to travel to take part in the research.

Will results be confidential?

Yes. All information will be locked away at City University. We will not pass on information about you to anyone else unless you agree.

When we report our results we will not use any names. We will refer to you with a made-up name or by initials alone.

At the end of the project we would like to keep video recordings to use in teaching, but only if you agree. If you prefer, we will destroy your tapes.

How will we publish the results?

We will publish our results in scientific journals and at conferences for other professionals. We will also tell people from the Bengali-Sylheti community about our research. We plan to give talks in community centres and write articles for community magazines.

You will be sent a leaflet about our main findings, even if you choose to leave the project.

How can I get more information?

If you are worried about any aspect of the project or want more information, please contact

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তথ্য পত্র (নিয়ন্ত্রন অংশগ্রহণকারীদের জন্য)

প্রজেক্টের নাম :

দ্বিভাষিক অ্যাফাসিয়ায় শব্দ খোঁজার অসুবিধা : কথা ও ভাষা চিকিৎসায় ব্যবহার

অনুসন্ধানকারীগণ :

ডঃ জেন মার্শাল (সিটি মহাবিদ্যালয়), ডঃ টিম প্রিন্স (সিটি মহাবিদ্যালয়), ম্যাথু হার্ডউইক (কথা ও ভাষা চিকিৎসা ব্যবস্থাপক, বার্টস ও লন্ডন এনএইচএস তহবিল); স্টীফেন ব্রফট (সিটি মহাবিদ্যালয়)

প্রজেক্ট এর তহবিল দ্বারা চালিত :

বার্টস ও লন্ডন এনএইচএস তহবিল

আমরা আপনাকে গবেষণা শিক্ষায় অংশ নিতে আহ্বান করছি যা আমরা গুরুত্বপূর্ণ বলে মনে করি। তথ্য পত্র আপনাকে গবেষণার ব্যাপারে জানাবে এবং যদি অংশ নিতে চান তবে কি অন্তর্ভুক্ত আছে। গবেষণায় অংশগ্রহণ করার বিষয়টা পুরোপুরি আপনার। গবেষণা সংক্রান্ত যেকোন প্রশ্ন করুন এবং আমরা উত্তর দিতে সেরা চেষ্টাটা করব।

পশ্চাদপট :

অ্যাফাসিয়া হল ভাষাগত সমস্যা যা মস্তিষ্কের ক্ষতির ফলে হয়, যেমন আঘাত। অ্যাফাসিয়া প্রায়শই কথা বলাকে আন্তে করে দেয়, শব্দ খোঁজার সমস্যা সহ। পড়া ও লেখাতেও অসুবিধা হতে পারে। যদি ব্যক্তি দ্বিভাষিক হন (একাধিক ভাষা ব্যবহার করে) তবে দুটো ভাষাই আক্রান্ত হতে পারে।

প্রজেক্টের লক্ষ্য কি ?

প্রজেক্টের লক্ষ্য হল দ্বিভাষিক ব্যক্তিদের অ্যাফাসিয়া সমস্যা খুঁজে বার করা যারা বাংলা-সিলেটি এবং ইংরেজী ব্যবহার করে। আমরা খুঁজে বার করতে চেষ্টা করব যদি ভাষা সমস্যা বাংলা-সিলেটি এবং ইংরেজীতে সমান হয় এবং কথা ও ভাষা চিকিৎসা সেই সমস্যার সমাধানের চেষ্টা করবে।

আমরা কেন আপনাকে অংশ নিতে বলছি ?

আমরা আপনাকে জিজ্ঞাসা করছি কারণ আপনি দ্বিভাষিক বাংলা-সিলেটি এবং ইংরেজীতে।

কি অংশীভূত হবে ?

আমাদের প্রজেক্ট বাংলা-সিলেটি এবং ইংরাজীর চারটে নতুন ভাষা পরীক্ষার ওপর তৈরী হয়েছে। পরীক্ষাটা সহজ এবং যেমন আমরা ব্যক্তিকে একটা ছবি দেখাব এবং এর নাম জিজ্ঞাসা করব।

আমরা পরিকল্পনা নিই যে এই পরীক্ষা অ্যাফাসিয়াজনিত ব্যক্তিদের ওপর করব তাদের ভাষা সমস্যা মেটাতে। আমরা আরও জিজ্ঞাসা করব সেসব দ্বিভাষিক বক্তারা যাদের ভাষা সমস্যা নেই তারা কিভাবে পরীক্ষায় পেরে ওঠে। এটা সেখানেই যেখানে আপনি সাহায্য করতে পারেন। এরপর ফলাফলটা অ্যাফাসিয়াজনিত ব্যক্তিদের ফলাফলের সাথে তুলনা করব।

এটায় কিছু লাভ কি আছে ?

প্রজেক্ট অ্যাফাসিয়া সম্বন্ধে বিশদে জানাবে বিশেষ করে বাংলা-সিলেটি এবং ইংরেজী ভাষার ব্যক্তিদের। বাংলা-সিলেটি সমপ্রদায়ের অ্যাফাসিয়াজনিত ব্যক্তিদের জন্য এটা আরও সক্রিয়ভাবে কাজ করতে সাহায্য করবে।

আমরা আপনার অংশগ্রহণের জন্য কিছু অর্থ দিতে পারব না। যদি আপনি এই চিকিৎসা গবেষণায় অংশ নেন তবে কথা বলা কিছুটা উন্নত করতে পারবেন। যদি প্রজেক্টে অংশ নিতে হাসপাতালে আসেন তবে আসার খরচ দেওয়া হবে।

স্বচ্ছাসেবা হিসাবে অংশ নেওয়া যায় কি ?

নিশ্চয়ই, চাইলেই অংশ নিতে পারেন। আপনি প্রজেক্টে যোগ দিতে পারেন এবং তারপর ঠিক করতে পারেন চালাবেন কি না। আপনি যেকোন সময় ছেড়ে যেতে পারেন। আপনি যেকোন সময়ে থেমে যেতে পারেন এবং এ জন্য আপনার কোনরূপই অসুবিধা হবে না। আমরা আপনার অংশগ্রহণের জন্য কোন পারিশ্রমিক দেব না কিন্তু আমরা আপনাকে খরচটা যোগাব যদি গবেষণায় অংশগ্রহণের জন্য ভ্রমণ করতে হয়।

ফলাফল কি গোপনীয় থাকবে ?

হ্যাঁ। সব তথ্য সিটি মহাবিদ্যালয়ে তালাবদ্ধ থাকবে। আমরা আপনার সম্বন্ধে কোন তথ্য আপনার অনুমতি ছাড়া কাউকে দেব না।

যখন কোন ফলাফল নথিভুক্ত করব তখন কোন নাম থাকবে না। আমরা আপনাকে বানানো নামের বা শুধু প্রথম অক্ষরের উল্লেখ দেব।

প্রজেক্টের শেষে ভিডিও রেকর্ডিংটা শিক্ষার জন্য রেখে দিতে চাইব একমাত্র যদি আপনি রাজী থাকেন। আপনার মনে হলে আমরা টেপটা নষ্ট করে ফেলব।

আমরা ফলাফল কিভাবে প্রকাশ করব ?

অন্যান্য পেশাদারদের জন্য আমরা ফলাফল বিজ্ঞান সংবাদপত্র এবং সম্মেলনে প্রকাশ করব। স্টীফেন ক্রফট একটা গবেষণাপত্র লিখবেন পিএইচডি যোগ্যতার জন্য। আমরা বাংলা-সিলেটি সমপ্রদায়ে আমাদের গবেষণার বিষয়ে বলব। আমাদের পরিকল্পনা আছে এলাকাভিত্তিক কেন্দ্রে কথা বলার এবং সমপ্রদায়ভিত্তিক ম্যাগাজিনে প্রবন্ধ লিখব।

আমাদের প্রধান খোঁজগুলোর ওপর আপনাকে একটা প্রচারপত্র পাঠাব, যদি আপনি ছেড়ে যান তাতেও।

আমি কিভাবে বিশদ তথ্য পেতে পারি ?

যদি প্রজেক্টের দৃষ্টিভঙ্গি নিয়ে কোন চিন্তা থাকে বা বিশদ তথ্য চান, তবে দয়া করে যোগাযোগ করুন :

স্টীফেন ক্রফট, কথা ও ভাষা চিকিৎসক

টেলিফোন: ০২০ ৭০৪০৪৬৬৪

ইমেল: s.croft@city.ac.uk

বা প্রজেক্ট নিয়ন্ত্রায়ক,

ডঃ জেন মার্শাল, প্রধান অধ্যাপক

টেলিফোন: ০২০ ৭০৪০৪৬৬৮

ইমেল: j.marshall@city.ac.uk

ঠিকানা: ভাষা ও যোগাযোগ বিজ্ঞান বিভাগ
 সিটি মহাবিদ্যালয়
 নর্থামটন স্কয়ার
 লন্ডন ইসি১ডি০এইচবি



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School of Allied Health Sciences

**Department of Language
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London EC1V 0HB
T 020 7040 5060
F 020 7040 8577

Minicom/TTY 020 7040 8314

www.city.ac.uk

Consent Form

**Project title: Word finding difficulties in bilingual aphasia: implications for
speech and language therapy**

Your name:

Address:

.....

.....

- The study organisers have invited me to take part in the research.

Yes

☐

- I understand the leaflet/video about the research. I have a copy of the leaflet to keep.

Yes

☐

- I have had a chance to talk and ask questions about the study.

Yes

☐

- I know what my part will be in the study and I know how long it will take.

Yes

☐

- I know that the East London and The City Research Ethics Committee has seen and
agreed to this study.

Yes

☐

- I understand that personal information is strictly confidential. I know the only people who may see information about my part in the study are the research team.

Yes

☐

- I understand that my personal information may be stored on a computer. If this is done it will not affect the confidentiality of this information. All such storage of information must comply with the 1998 Data Protection Act.

Yes

☐

- I freely consent to take part in this study. No one has put pressure on me. I know that I can stop taking part in the study at any time. I know that if I do not take part I will still be able to have my normal therapy.

Yes

☐

I know that if there are any problems I can contact:

Stephen Croft, Speech and Language Therapist Telephone: 020 70404664

or the project supervisor:

Dr. Jane Marshall, Senior Lecturer Telephone: 020 70404668

Participant's signature

Date



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প্রতিযোগীতা পত্র

প্রজেক্টের নাম : দ্বিভাষিক অ্যাফাসিয়ায় শব্দ খোঁজার অসুবিধা : কথা
ও ভাষা চিকিৎসায় ব্যবহার্য

আপনার নাম :

ঠিকানা :

.....

.....

- গবেষণা সংস্থা আমাকে গবেষণা অংশ নিতে অভ্যর্থনা জানিয়েছে

হ্যাঁ

☐

- গবেষণা সংক্রান্ত প্রচারপত্র / ভিডিও আমি বুঝেছি। রাখার জন্য প্রচারপত্রের একটা প্রতিলিপি আছে।

হ্যাঁ

☐

গবেষণা সংক্রান্ত কথা বলা ও জিজ্ঞাসা করার জন্য আমার সুযোগ আছে।

হ্যাঁ

☐

গবেষণায় আমার অংশ এবং কত সময় নেবে তা আমি জানি।

হ্যাঁ

☐

- আমি জানি যে ব্যক্তিগত তথ্য কঠোরভাবে গোপনীয়। আমি জানি যে শুধু তারাই আমার এই গবেষণা সংক্রান্ত তথ্য দেখতে পাবে যারা গবেষণা দলে আছেন।

হ্যাঁ

☐

- আমি জানি যে আমার ব্যক্তিগত তথ্য কমপিউটারে ভরে রাখা হবে। যদি এটা করা হয় তা তথ্যের গোপনীয়তায় প্রভাব ফেলবে না। সমস্ত ভরে রাখা তথ্য ১৯৯৮ এর তথ্য নিরাপত্তা আইন মেনে চলবে।

হ্যাঁ

☐

- আমি মুক্তভাবে গবেষণায় অংশ নেব। কেউ আমাকে চাপ দেবে না। আমি জানি যেকোন সময়ে গবেষণায় অংশগ্রহণ বন্ধ করতে পারি। আমি জানি যদি আমি অংশ না নিই তবে আমি আমার সাধারণ চিকিৎসা চালিয়ে যেতে পারব।

হ্যাঁ

☐

আমি জানি যদি কোন সমস্যা হয় তবে যোগাযোগ করব :

স্টীফেন ক্রফট, কথা ও ভাষা চিকিৎসক

টেলিফোন : ০২০ ৭০৪০৪৬৬৪

বা প্রজেক্ট তত্ত্বাবধায়ক:

ডঃ জেন মার্শাল, প্রধান অধ্যাপক

টেলিফোন : ০২০ ৭০৪০৪৬৬৮

অংশগ্রহণকারীর সই

.....

দিন

.....

Appendix 5: Language acquisition history questionnaire

History of bilingualism

Name:
Address:
Tel. No.:
Date of Birth:
Birthplace:
Wordlist:
Dates of contact:
Pseudonym:
Hand preference:

	Self	Mother	Father	Any other caregiver?
Native language				
Other languages				
Language spoken most at home				
Other languages also spoken at home				

What language did you speak most with friends as a child?
.....
How many years of education have you had?
.....
What was the language of instruction at school?
.....
Did this remain the language of instruction throughout your education? Y N
(Changes after/lasting how many years?)
.....
Did you learn any subjects in another language at school?
.....
What language did most of the other students speak at this school?
.....
After your education was completed, what was your occupation?
.....

Where do you speak Bengali?

at home at work with friends other?

How often do you speak Bengali?

every day every week every month every year
less than once a year

Did you ever learn to read Bengali? **Y N**

How old were you?

Do you consider your Bengali reading to be...

not good good very good

In your daily life do you read Bengali...

every day every week every month every year
less than once a year

Did you ever learn to write Bengali? **Y N**

How old were you?

Do you consider your Bengali writing...

not good good very good

In your daily life, do you write Bengali...

every day every week every month every year
less than once a year

Second language background

How long have you lived in the UK?

.....
Have you ever lived in another country where English was spoken?

.....
Do you consider your English speaking to be:

not good good very fluent

How old were you when you learned to speak English?

.....

When do you speak English?

at home at work with friends other?

How often do you speak English?

every day every week every month every year
less than once a year

Did you ever learn to read English? Y N

How old were you?

Do you consider your English reading to be...

not good good very good

How often do you read English?

every day every week every month every year
less than once a year

Did you ever learn to write English? Y N

How old were you?

Do you consider your English writing to be...

not good good very good

In your daily life, do you write English...

every day every week every month every year
less than once a year

Profile spoken, reading or writing ability of any other known languages.

.....

.....

.....

.....

.....

.....

Appendix 6: Control participant naming response marking sheet (English)

Name:			Date:
LIST 1			
Target	Word Frequency (written English) (Kučera & Francis, 1967) (h=high;l=low)	Response	RT
Trials:			
finger			
chicken			
pen			
Start:			
baby	62 (h)		
eye	122 (h)		
prawn	0 (l)		
boy	242 (h)		
dentist	12 (l)		
needle	15 (l)		
car	274 (h)		
elbow	10 (l)		
fox	13 (l)		
people	847 (h)		
field	274 (h)		
beetle	0 (l)		
sun	112 (h)		
mouse	10 (l)		
cheese	9 (l)		
rain	70 (h)		
chisel	4 (l)		
umbrella	8 (l)		
tree	59 (h)		
duck	9 (l)		
glove	9 (l)		
anchor	15 (l)		
horse	117 (h)		
road	197 (h)		
newspaper	65 (h)		
carrot	1 (l)		
window	119 (h)		
fire	187 (h)		
toe	9 (l)		
rhinoceros	3 (l)		
bed	127 (h)		
tiger	7 (l)		
rock	75 (h)		
owl	2 (l)		
teeth	103 (h)		
egg	12 (l)		
step	131 (h)		
thumb	10 (l)		
wheel	56 (h)		
ant	6 (l)		
floor	158 (h)		
square	143 (h)		
broom	2 (l)		
cactus	0 (l)		
pillow	8 (l)		
roof	59 (h)		
circle	60 (h)		
pumpkin	2 (l)		
arrow	14 (l)		
donkey	1 (l)		
mother	216 (h)		
camel	1 (l)		
sieve	1 (l)		
face	371 (h)		
padlock	2 (l)		
sea	95 (h)		
bear	57 (h)		

Target	Word Frequency (written English) (Kučera & Francis, 1967) (h=high;l=low)	Response	RT
teacher	80 (h)		
hammer	9 (l)		
spade	10 (l)		
comb	6 (l)		
river	165 (h)		
frog	1 (l)		
butterfly	2 (l)		
dog	75 (h)		
shelf	12 (l)		
elephant	7 (l)		
rose	86 (h)		
arm	94 (h)		
leopard	0 (l)		
swan	3 (l)		
boat	72 (h)		
triangle	4 (l)		
money	265 (h)		
room	383 (h)		
eyelash	0 (l)		
pepper	13 (l)		
scissors	1 (l)		
back	967 (h)		
wrist	10 (l)		
house	591 (h)		
pliers	1 (l)		
cage	9 (l)		
worm	4 (l)		
peanut	6 (l)		
spoon	6 (l)		
axe	6 (l)		
girl	220 (h)		
ruler	3 (l)		
doorknob	0 (l)		
watch	81 (h)		
neck	81 (h)		
rabbit	11 (l)		
bee	11 (l)		
spider	2 (l)		
key	88 (h)		
pineapple	9 (l)		
web	6 (l)		
family	331 (h)		
hair	148 (h)		
ostrich	0 (l)		
skeleton	2 (l)		
banana	4 (l)		
shoe	14 (l)		
hedgehog	0 (l)		
beak	0 (l)		
gun	118 (h)		
lips	0 (l)		
claw	1 (l)		
leaf	12 (l)		
letter	145 (h)		
necklace	3 (l)		
foot	70 (h)		
grapes	0 (l)		
moon	60 (h)		
crab	0 (l)		
dragonfly	0 (l)		
hat	56 (h)		
lake	54 (h)		
blood	121 (h)		
goat	6 (l)		
cupboard	2 (l)		
ship	83 (h)		
onion	15 (l)		
snail	1 (l)		

Target	Word Frequency (written English) (Kučera & Francis, 1967) (h=high;l=low)	Response	RT
clothes	89 (h)		
leg	58 (h)		
monkey	9 (l)		
potato	15 (l)		
heart	173 (h)		
nail	6 (l)		
watermelon	0 (l)		
lobster	1 (l)		
nose	60 (h)		
mushroom	2 (l)		
book	193 (h)		
night	411 (h)		
mat	5 (l)		
paper	157 (h)		
sock	4 (l)		
drum	11 (l)		
squirrel	1 (l)		
rainbow	4 (l)		
snow	59 (h)		
parrot	1 (l)		
hoof	2 (l)		
bridge	98 (h)		

Appendix 7: Control participant naming response marking sheet (Bengali)

Name:			Date:
LIST 1			
Target	Word Frequency (written English) (Kučera & Francis, 1967) (h=high;l=low)	Response	RT
Trials:			
অঙ্গুলি (finger)			
মুগি (chicken)			
কলম (pen)			
Start:			
বাচ্চা (baby)	62 (h)		
অক্ষি (eye)	122 (h)		
চিংড়ি (prawn)	0 (l)		
ছেলে (boy)	242 (h)		
চিকিৎসক (dentist)	12 (l)		
সূই (needle)	15 (l)		
গাড়ি (car)	274 (h)		
কনুই (elbow)	10 (l)		
শিয়াল (fox)	13 (l)		
মানুষ (people)	847 (h)		
ক্ষেত্র (field)	274 (h)		
তেলাপোকা (beetle)	0 (l)		
সূর্য (sun)	112 (h)		
ইঁদুর (mouse)	10 (l)		
পনির (cheese)	9 (l)		
বৃষ্টি (rain)	70 (h)		
তক্ষণী (chisel)	4 (l)		
ছাতা (umbrella)	8 (l)		
গাছ (tree)	59 (h)		
হাস (duck)	9 (l)		
হাত-মোজ (glove)	9 (l)		
লোঙার (anchor)	15 (l)		
ঘোড়া (horse)	117 (h)		
রাষ্ট্রা (road)	197 (h)		
পত্রিকা (newspaper)	65 (h)		
গাজর (carrot)	1 (l)		
জালালা (window)	119 (h)		
গুল (fire)	187 (h)		
অঙ্গুলি (toe)	9 (l)		
গন্ডার (rhinoceros)	3 (l)		
বিছানা (bed)	127 (h)		
বাঘ (tiger)	7 (l)		
পাহাড় (rock)	75 (h)		
পেঁচা (owl)	2 (l)		
দন্ত (teeth)	103 (h)		
ভা (egg)	12 (l)		
সিঁড়ি (step)	131 (h)		
বৃদ্ধাঙ্গুলি (thumb)	10 (l)		
চাকা (wheel)	56 (h)		
সিঁপড়ে (ant)	6 (l)		
মাটি (floor)	158 (h)		
চক্ৰ (square)	143 (h)		
ঝাড়ু (broom)	2 (l)		

Target	Word Frequency (written English) (Kučera & Francis, 1967) (h=high;l=low)	Response	RT
ফণীমলসা (cactus)	0 (l)		
বালিশ (pillow)	8 (l)		
চাল (roof)	59 (h)		
বৃত্ত (circle)	60 (h)		
লাউ (pumpkin)	2 (l)		
ভির (arrow)	14 (l)		
গাধা (donkey)	1 (l)		
ম্মা (mother)	216 (h)		
উট (camel)	1 (l)		
চালসি (sieve)	1 (l)		
মুখ (face)	371 (h)		
ভালা (padlock)	2 (l)		
সাগর (sea)	95 (h)		
ভল্লুক (bear)	57 (h)		
মাস্টার (teacher)	80 (h)		
হাতুরি (hammer)	9 (l)		
কোদাল (spade)	10 (l)		
চিরুনি (comb)	6 (l)		
গঙ্গা (river)	165 (h)		
ব্যা (frog)	1 (l)		
প্রজাপতি (butterfly)	2 (l)		
কুকুর (dog)	75 (h)		
ভাক (shelf)	12 (l)		
হাতি (elephant)	7 (l)		
গুল (rose)	86 (h)		
হাত (arm)	94 (h)		
চিতাবাঘ (leopard)	0 (l)		
রাজহাঁস (swan)	3 (l)		
না (boat)	72 (h)		
ত্রিভুজ (triangle)	4 (l)		
পয়সা (money)	265 (h)		
কোঠা (room)	383 (h)		
চক্ষুর লোম (eyelash)	0 (l)		
মরিচ (pepper)	13 (l)		
কাঁচি (scissors)	1 (l)		
পীঠ (back)	967 (h)		
কবজি (wrist)	10 (l)		
ঘর (house)	591 (h)		
সন্দংশ (pliers)	1 (l)		
পিঞ্জর (cage)	9 (l)		
কেচ (worm)	4 (l)		
বাদাম (peanut)	6 (l)		
চমস (spoon)	6 (l)		
কুড়াল (axe)	6 (l)		
মেয়ে (girl)	220 (h)		
মাপন (ruler)	3 (l)		
কড়া (doorknob)	0 (l)		
ঘড়ী (watch)	81 (h)		
গল (neck)	81 (h)		
খরগোশ (rabbit)	11 (l)		
মৌমাছি (bee)	11 (l)		

Target	Word Frequency (written English) (Kučera & Francis, 1967) (h=high;l=low)	Response	RT
মাকড়সা (spider)	2 (l)		
চাবি (key)	88 (h)		
আনারস (pineapple)	9 (l)		
মাকড়সার জাল (spiderweb)	6 (l)		
পরিবার (family)	331 (h)		
চুল (hair)	148 (h)		
উটপাখি (ostrich)	0 (l)		
কঙ্কাল (skeleton)	2 (l)		
কলা (banana)	4 (l)		
জুতা (shoe)	14 (l)		
কাঁটাচুয়া (hedgehog)	0 (l)		
পক্ষীঠোঁট (beak)	0 (l)		
বন্দুক (gun)	118 (h)		
ঠোঁট (lips)	0 (l)		
পাখিলেখর (claw)	1 (l)		
পাতা (leaf)	12 (l)		
চিঠি (letter)	145 (h)		
গলমালা (necklace)	3 (l)		
পা (foot)	70 (h)		
আঙুর (grapes)	0 (l)		
চাঁদা (moon)	60 (h)		
কর্কট (crab)	0 (l)		
ফড়িং (dragonfly)	0 (l)		
টুপি (hat)	56 (h)		
সরসী (lake)	54 (h)		
ছাগল (goat)	6 (l)		
আলমারি (cupboard)	2 (l)		
জাহাজ (ship)	83 (h)		
পেঁয়াজ (onion)	15 (l)		
শামুক (snail)	1 (l)		
কাপড় (clothes)	89 (h)		
পা (leg)	58 (h)		
বান্দর (monkey)	9 (l)		
লু (potato)	15 (l)		
হৃদয় (heart)	173 (h)		
লহা (nail)	6 (l)		
ভরমুজ (melon)	0 (l)		
গলদা চিংড় (lobster)	1 (l)		
নাক (nose)	60 (h)		
ব্যাঙের ছাত (mushroom)	2 (l)		
বই (book)	193 (h)		
রাত্রি (night)	411 (h)		
মাদুর (mat)	5 (l)		
কাগজ (paper)	157 (h)		
মোজা (sock)	4 (l)		
ডোল (drum)	11 (l)		
কাঠবেরাল (squirrel)	1 (l)		
ধনু, ধনুক (rainbow)	4 (l)		
বরফ (snow)	59 (h)		
কাকাতুয়া (parrot)	1 (l)		

Target	Word Frequency (written English)	Response	RT
	(Kučera & Francis, 1967)		
	(h=high;l=low)		
ରକ୍ତ (blood)	121 (h)		
ଧୂଳି (hoof)	2 (l)		
ପୁଲ (bridge)	98 (h)		

Appendix 8: Collated control participant latency data: name agreement and pair-matched items

Target (high or low frequency)	Name agreement (/20)		Pair-matched latency (/20)
	English	Bengali	
anchor (l)	8	5	
ant (l)	12	8	
arm (h)	12	19	
arrow (l)	17	11	
axe (l)	7	11	
baby (h)	19	15	13
back (h)	9	6	
banana (l)	20	20	20
beak (l)	7	16	
bear (h)	13	13	
bed (h)	20	15	14
bee (l)	9	8	
beetle (l)	8	7	
blood (h)	13	8	
boat (h)	14	9	
book (h)	20	19	19
boy (h)	18	17	16
bridge (h)	17	11	
broom (l)	19	9	
butterfly (l)	19	18	17
cactus (l)	5	2	
cage (l)	14	18	12
camel (l)	17	20	17
car (h)	20	17	17
carrot (l)	18	20	17
cheese (l)	8	7	
chisel (l)	4	7	
circle (h)	16	12	
claw (l)	11	15	
clothes (h)	12	16	
comb (l)	18	20	18
crab (l)	13	17	
cupboard (l)	7	7	
dentist (l)	7	4	
dog (h)	20	20	20
donkey (l)	14	17	12
doorknob (l)	16	3	
dragonfly (l)	7	15	
drum (l)	12	12	
duck (l)	20	17	17
egg (l)	12	11	
elbow (l)	12	15	
elephant (l)	20	20	20
eye (h)	20	20	20
eyelash (l)	5	11	
face (h)	16	18	15
family (h)	11	8	
field (h)	3	2	
fire (h)	14	13	

Target (high or low frequency)	Name agreement (/20)		Pair-matched latency (/20)
	English	Bengali	
floor (h)	15	8	
foot (h)	19	20	19
fox (l)	17	20	17
frog (l)	20	20	20
girl (h)	18	20	18
glove (l)	10	4	
goat (l)	17	19	16
grapes (l)	20	19	19
gun (h)	18	18	18
hair (h)	15	14	13
hammer (l)	19	19	18
hat (h)	19	14	13
heart (h)	13	3	
hedgehog (l)	7	6	
hoof (l)	10	9	
horse (h)	20	20	20
house (h)	20	20	20
key (h)	19	20	19
lake (h)	3	2	
leaf (l)	20	20	20
leg (h)	17	19	17
leopard (l)	8	15	
letter (h)	19	17	17
lips (h)	19	17	17
lobster (l)	4	8	
mat (l)	10	5	
money (h)	19	20	18
monkey (l)	19	20	19
moon (h)	19	20	19
mother (h)	18	17	15
mouse (h)	20	19	19
mushroom (l)	16	8	
nail (l)	15	12	
neck (h)	16	14	13
necklace (l)	19	16	15
needle (l)	11	12	
newspaper (h)	18	11	
night (h)	9	8	
nose (h)	16	17	16
onion (l)	20	20	20
ostrich (l)	12	11	
owl (l)	16	15	12
padlock (l)	20	16	19
oaper (h)	14	11	
parrot (l)	15	17	13
peanut (l)	7	10	
people (h)	13	7	
pepper (l)	10	3	
pillow (l)	8	7	
pineapple (l)	19	20	19
pliers (l)	6	6	
potato (l)	6	8	

Target (high or low frequency)	Name agreement (/20)		Pair-matched latency (/20)
	English	Bengali	
prawn (l)	14	20	14
pumpkin (l)	13	18	
rabbit (l)	16	16	14
rain (h)	19	18	18
rainbow (l)	11	11	
rhinoceros (l)	12	11	
river (h)	8	7	
road (h)	16	15	14
rock (h)	10	9	
roof (h)	11	15	
room (h)	8	1	
rose (h)	20	19	19
ruler (l)	11	12	
scissors (l)	20	19	19
sea (h)	5	2	
shelf (l)	5	2	
ship (h)	19	17	16
shoe (l)	20	20	20
sieve (l)	7	12	
skeleton (l)	12	15	
snail (l)	14	13	8
snow (h)	6	5	
sock (l)	19	19	18
spade (l)	14	11	
spider (l)	11	14	
spoon (l)	20	19	19
square (h)	13	6	
squirrel (l)	7	5	
step (h)	12	10	
sun (h)	20	19	19
swan (l)	15	19	14
teacher (h)	14	9	
teeth (h)	19	20	19
thumb (l)	14	19	14
tiger (l)	19	15	15
toe (l)	12	20	
tree (h)	20	20	20
triangle (l)	17	12	
umbrella (l)	20	19	19
watch (h)	20	19	19
watermelon (l)	13	12	
web (l)	9	18	
wheel (h)	16	17	15
window (h)	18	16	15
worm (l)	18	16	14
wrist (l)	13	14	

1. Item discarded if name agreement less than 14/20 (70%).
2. Item discarded if pair-matched latency less than 13/20 (65%).

Appendix 9: Paired t-test data for control participant naming latencies

Target	Mean latency				$t =$ (English:Bengali)	$p =$
	English	Standard Deviation	Bengali	Standard Deviation		
High frequency						
baby	1620.39	544.50	1905.92	725.53	-1.179	0.261
bed	881.36	199.97	1448.64	720.41	-3.682	0.030
book	880.42	210.22	1081.11	398.50	-2.566	0.019
boy	1793.56	789.56	2243.63	1106.41	-1.680	0.114
car	996.77	424.73	1253.65	570.25	-1.770	0.960
dog	1200.80	466.26	1313.50	556.68	-1.061	0.302
eye	1257.25	630.95	1011.25	382.22	1.900	0.730
face	1549.07	1050.37	1557.87	760.72	-0.040	0.970
foot	1534.05	873.12	1253.53	700.28	1.720	0.103
girl	1596.33	831.76	1704.44	610.41	-0.627	0.539
gun	1487.22	841.01	1405.39	663.34	0.520	0.610
hair	2298.54	1188.89	2048.31	906.37	0.531	0.605
hat	935.85	315.82	1654.69	632.61	-3.910	0.002
horse	1071.40	420.27	1475.90	797.96	-1.914	0.071
house	1181.90	357.65	1252.20	543.66	-0.715	0.483
key	1187.68	731.06	988.11	438.49	1.39	0.18
leg	1810.24	906.76	1573.06	1040.56	0.762	0.457
letter	1518.18	638.03	1681.06	879.74	-1.163	0.262
lips	1055.18	439.57	1457.06	751.81	-2.230	0.040
money	1582.50	904.62	2052.50	1057.87	-2.299	0.034
moon	1547.16	752.47	1372.63	418.16	1.031	0.316
mother	1971.07	677.88	2105.73	923.33	-0.844	0.413
mouse	1144.89	480.39	1372.68	604.79	-1.284	0.215
neck	1658.46	818.61	1302.23	351.17	1.325	0.210
nose	1396.36	990.30	1401.31	631.15	-0.023	0.982
rain	1466.94	679.27	1463.22	720.34	0.029	0.977
road	2130.29	1015.99	2187.38	938.82	-0.219	0.830
rose	1448.21	938.68	1517.47	685.81	-0.250	0.805
ship	1460.88	1273.34	1545.50	706.67	-0.271	0.790
sun	1201.58	453.00	1094.58	236.60	1.259	0.224
teeth	1135.89	546.83	1151.00	408.48	-0.120	0.906
tree	1478.20	1020.30	1275.05	606.20	0.929	0.365
watch	1206.79	796.77	1431.77	804.24	-1.829	0.084
wheel	1727.07	1175.72	1775.73	898.12	-0.131	0.898
window	1225.33	697.53	1316.00	448.53	-0.432	0.672

Target	Mean latency				$t =$ (English:Bengali)	$p =$
	Standard		Standard			
Low frequency	English	Deviation	Bengali	Deviation		
banana	1053.45	534.01	1269.35	621.72	-2.453	0.024
butterfly	1574.06	1056.81	1532.59	767.04	0.128	0.900
cage	2072.58	1172.40	1587.08	658.91	1.214	0.250
camel	1867.65	1041.86	1129.65	453.30	2.494	0.024
carrot	1691.35	926.04	1438.29	660.81	1.290	0.214
comb	1118.17	403.35	1097.78	491.32	0.136	0.894
donkey	1743.25	577.03	1976.50	857.70	-0.807	0.437
duck	1370.71	649.11	1521.00	774.81	-0.523	0.608
elephant	1160.00	539.80	1096.90	392.51	0.484	0.634
fox	1743.71	738.73	1784.59	858.17	-0.217	0.831
frog	1541.35	910.17	1304.10	722.65	0.997	0.331
goat	1183.63	270.12	1366.44	436.30	-1.678	0.114
grapes	1243.00	546.15	1337.11	788.65	-0.488	0.631
hammer	1037.56	355.84	1210.72	472.89	-1.234	0.234
leaf	1587.85	1077.05	1213.55	381.75	1.983	0.062
monkey	1431.63	856.70	1392.95	650.93	0.208	0.837
necklace	1826.06	1075.84	1680.00	752.59	0.653	0.524
onion	1323.25	503.00	1309.10	575.34	0.134	0.895
owl	1358.33	543.73	1749.67	973.06	-1.023	0.328
padlock	1461.79	626.31	1312.16	627.60	0.864	0.399
parrot	1757.35	890.56	1954.77	760.72	-0.623	0.545
pineapple	1415.68	820.61	1083.63	431.22	1.596	0.128
prawn	2169.79	749.17	1673.29	803.52	1.689	0.115
rabbit	1951.54	1458.99	1574.36	777.77	0.998	0.337
scissors	998.11	369.44	1110.68	540.22	-0.705	0.490
shoe	972.95	562.31	915.15	367.04	0.405	0.690
sock	1474.61	719.20	1166.89	504.03	2.224	0.040
spoon	902.00	336.95	1114.11	706.22	-1.335	0.198
swan	1334.29	809.05	1503.00	593.54	-0.851	0.410
thumb	1551.43	820.12	1560.36	583.67	-0.046	0.964
tiger	1604.80	791.88	1542.13	508.33	0.286	0.779
umbrella	865.58	268.96	1006.00	406.57	-1.662	0.114
worm	1905.36	741.12	2289.79	955.05	-1.535	0.148

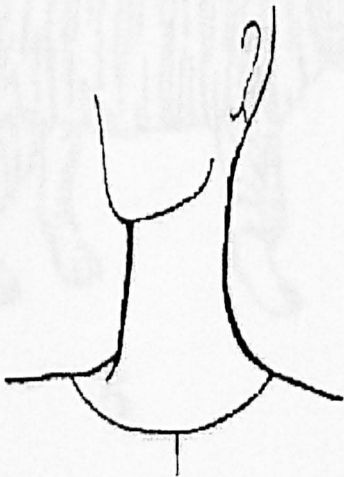
Appendix 10: Picture stimuli for naming tests (Example from running order for English version)



a



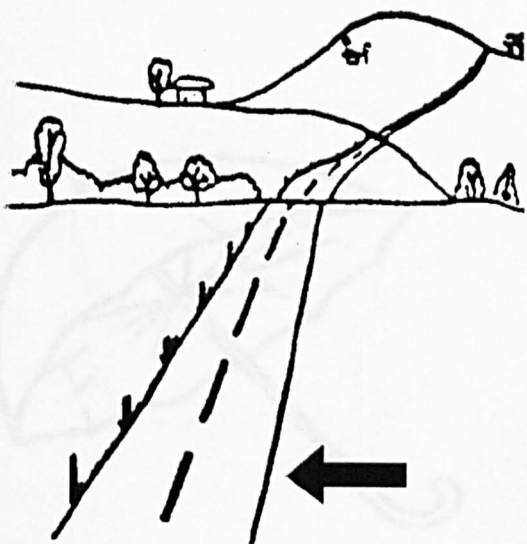
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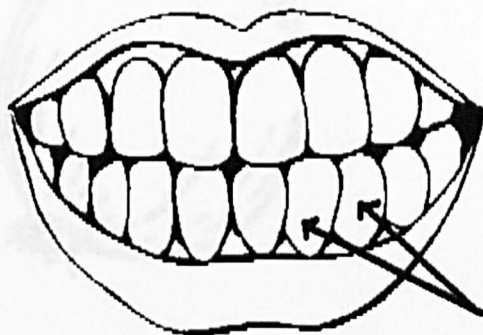
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2



3



4



5



6



7



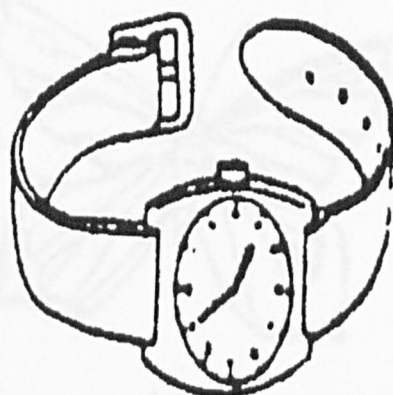
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9



10



11



12



13



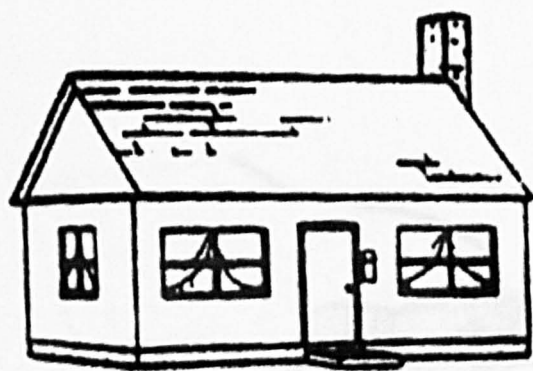
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15



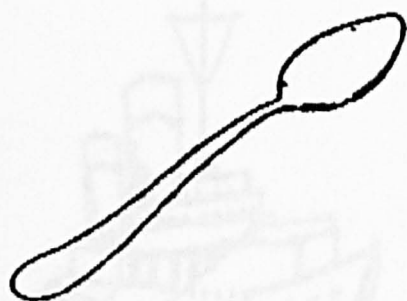
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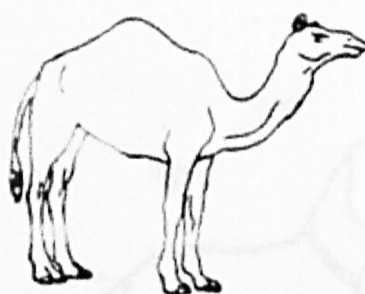
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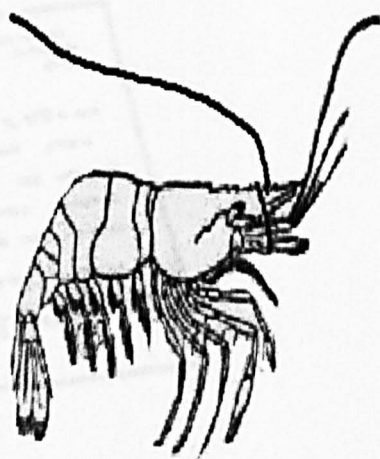
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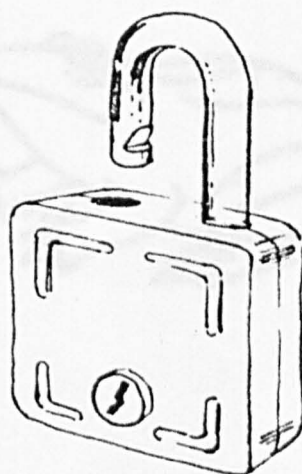
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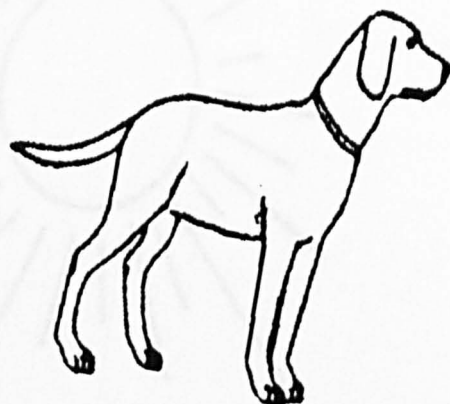
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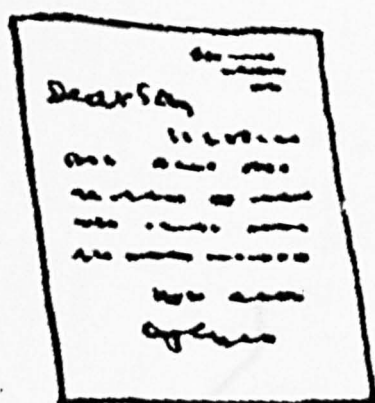
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23



24



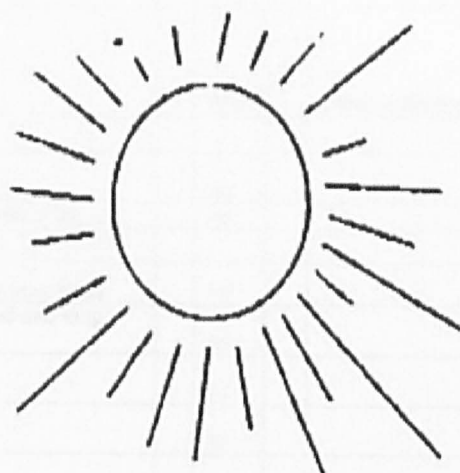
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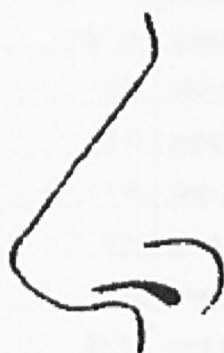
26



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Appendix 11: Oral naming test (English with semantic cues)

Name: _____ Date: _____

	Target	Word Frequency (written English) (Kučera & Francis, 1967) (h=high;l=low)	Cue	Cue	Picture Naming Response
	Trials				
a	banana		curved yellow fruit	/b/	
b	sock		goes on your foot before shoe	/s/	
	Test				
1	neck	81 (h)	connects your head to your body	/n/	
2	rabbit	11 (l)	animal with a bushy tail and long ears	/r/	
3	road	197 (h)	cars drive on it	/r/	
4	teeth	103 (h)	used for biting	/t/	
5	tiger	7 (l)	big dangerous cat	/t/	
6	swan	3 (l)	white bird that lives near water	/s/	
7	umbrella	8 (l)	protects you from the rain	/ʌ/	
8	onion	15 (l)	vegetable that can make you cry	/ʌ/	
9	foot	70 (h)	body part used for walking	/f/	
10	monkey	9 (l)	animal that swings through trees	/m/	
11	watch	81 (h)	tells you what the time is	/w/	
12	pineapple	9 (l)	sweet fruit with spiky skin	/p/	
13	owl	2 (l)	bird that is awake at night	/au/	
14	hair	148 (h)	grows on your head	/h/	
15	butterfly	2 (l)	colourful insect was once a caterpillar	/b/	
16	grapes	0 (l)	fruit that grows in a bunch	/g/	
17	house	591 (h)	a place to live	/h/	
18	goat	6 (l)	animal eaten at celebrations	/g/	
19	spoon	6 (l)	used to stir tea	/s/	
20	camel	1 (l)	large animal found in the desert	/k/	
21	prawn	0 (l)	small shellfish	/p/	
22	padlock	2 (l)	keeps a door closed	/l/	
23	ship	83 (h)	sails across an ocean	/ʃ/	
24	dog	75 (h)	animal that chases cats	/d/	
25	letter	145 (h)	sent in the post	/l/	
26	frog	1 (l)	animal that lives in ponds	/f/	
27	key	88 (h)	unlocks a door	/k/	
28	sun	112 (h)	bright star that keeps us warm	/s/	
29	nose	60 (h)	use it to smell	/n/	
30	boy	242 (h)	male child	/b/	
Total Correct				/30	

Appendix 12: Oral naming test (English with cross-linguistic cues)

Name:

Date:

	Target	Word Frequency (written English) (Kučera & Francis, 1967) (h=high;l=low)	Cue	Cue	Picture Naming Response
	<u>Trials</u>				
a	banana		/k ^h ɒlə/	/b/	
b	sock		/mu:ʒə/	/s/	
	<u>Test</u>				
1	neck	81 (h)	/gɒlə/	/n/	
2	rabbit	11 (l)	/k ^h ɔ:gu:f/	/r/	
3	road	197 (h)	/ræstæ/	/r/	
4	teeth	103 (h)	/dæt/	/t/	
5	tiger	7 (l)	/b ^h ɑ:g/	/t/	
6	swan	3 (l)	/rɑ:zæf/	/s/	
7	umbrella	8 (l)	/ʃæti/	/ʌ/	
8	onion	15 (l)	/fi:jəz/	/ʌ/	
9	foot	70 (h)	/pɑ:/	/f/	
10	monkey	9 (l)	/bændɔ:/	/m/	
11	watch	81 (h)	/gɒri/	/w/	
12	pineapple	9 (l)	/æna:rɒf/	/p/	
13	owl	2 (l)	/fesæ/	/au/	
14	hair	148 (h)	/su:l/	/h/	
15	butterfly	2 (l)	/prɒdʒəpa:ti/	/b/	
16	grapes	0 (l)	/æŋgɔ:/	/g/	
17	house	591 (h)	/gɔ:/	/h/	
18	goat	6 (l)	/ʃæɡɒl/	/g/	
19	spoon	6 (l)	/sæməs/	/s/	
20	camel	1 (l)	/u:t/	/k/	
21	prawn	0 (l)	/eɪsæ/	/p/	
22	padlock	2 (l)	/tælə/	/t/	
23	ship	83 (h)	/zæz/	/ʃ/	
24	dog	75 (h)	/kɒkɒr/	/d/	
25	letter	145 (h)	/si:ti/	/l/	
26	frog	1 (l)	/bɛŋ/	/f/	
27	key	88 (h)	/tʃæbi/	/k/	
28	sun	112 (h)	/ʃɜ:z/	/s/	
29	nose	60 (h)	/næk/	/n/	
30	boy	242 (h)	/tʃeɪl/	/b/	
Total Correct			/30		

Appendix 13: Oral naming test (Bengali with semantic cues)

Name:

Date:

	Target	Word Frequency (written English) (Kučera & Francis, 1967) (h=high;l=low)	Cue	Cue	Picture Naming Response
	Trials				
a	কলা		বেকা হইলদা ফল	/k ^h /	
b	মোজা		জুতার আসে আফনার গামো বার	/m/	
	Test				
1	আঙুর	0 (l)	আফনার মাথারে শরীরো জুড়া দেয়	/ae/	
2	রাজহাঁস	3 (l)	ঝাঁকড়া লেজ আর লম্বা কানআলা জন্ত	/r/	
3	গল	81 (h)	গাড়ী ইতার উপরে দিয়া চলে	/g/	
4	কুকুর	75 (h)	কামড়ানির লাসি দরকার হয়	/k/	
5	নাক	60 (h)	বড়ো আর বিশুদ্ধক বিভাল	/n/	
6	ঘাড়া	8 (l)	সাদা পাখী খেটা পানির কিনারো বাস করে	/s/	
7	বাঁদর	1 (l)	বৃষ্টি থাকি আফনারে বাঁচায়	/b/	
8	চাষি	88 (h)	সরী খেটা আফনারে কাশাইত গারে	/tʃ/	
9	উট	1 (l)	ইটার লাসি শরীরর যে অংশ দরকার	/u:/	
10	চমস	6 (l)	এক গাছ থাকি আরেক গাছো যে জন্ত ফল দেয়	/s/	
11	জাহাজ	83 (h)	অশ্বদ সময় কিতা ইটা যে কয়	/z/	
12	গা	70 (h)	মিষ্টি ফল বার বাকলো কাঁটা কাঁটা আছে	/f/	
13	ঘর	591 (h)	যে পাখী রাইত আসি থাকে	/g/	
14	ফেলে	242 (h)	আফনার মাথাত পজায়	/f/	
15	সূর	112 (h)	রতীস পতস খেটা আসে পুক আছিল	/ʃ/	
16	খরসোণ	11 (l)	ফল খেটা খুটা খুটা হইয়া ধরে	/k ^h /	
17	দত	103 (h)	একটা থাকার জায়গা	/d/	
18	প্রজাপতি	2 (l)	উৎসবর সময় যে জন্ত খাওয়া হয়	/p/	
19	পেঁয়াজ	15 (l)	চা লাড়ানির লাসি ব্যবহার হয়	/f/	
20	রাহা	197 (h)	বড়ো জন্ত খেটারে মরুভূমিত পাওয়া যায়	/r/	
21	আলোরস	9 (l)	ছুট খিনুকর মতো মাছ	/ae/	
22	তাল	2 (l)	একটা দরজা বন্ধ রাখে	/t/	
23	চিংড়ি	0 (l)	সাগরর মাঝে দি যায়	/ei/	
24	ঘড়ী	81 (h)	যে জন্তয়ে বিভালরে গিছে দৌড়ায়	/g/	
25	ব্যা	1 (l)	ডাকে পাঠানি হইবে	/b/	
26	চুল	148 (h)	যে জন্ত পুঙ্খুশীত বাস করে	/s/	
27	বাঘ	7 (l)	তলা মারা দরজা খুলে	/b ^h /	
28	হাসল	6 (l)	উচ্ছল তারা খেটার আমরারে পরম রাখে	/ʃ/	
29	পেঁচা	2 (l)	ইটা গন্ধ শূকাত ব্যবহার করা হয়	/f/	
30	চিঠি	145 (h)	নুয়া বাইচা	/s/	
Total Correct				/30	

Appendix 14: Oral naming test (Bengali with cross-linguistic cues)

Name:		Date:				
	Target	Word Frequency (written English) (Kučera & Francis, 1967) (h=high;l=low)	Cue		Cue	Picture Naming Response
	Trials					
a	কলা		banana	/k ^h /		
b	মোজা		sock	/m/		
	Test					
1	আড়ুর	0 (l)	grapes	/ae/		
2	রাজহাঁস	3 (l)	swan	/r/		
3	গল	81 (h)	neck	/g/		
4	কুকুর	75 (h)	dog	/k/		
5	নাক	60 (h)	nose	/n/		
6	হাতা	8 (l)	umbrella	/s/		
7	বাঁদর	1 (l)	monkey	/b/		
8	চাবি	88 (h)	key	/tʃ/		
9	উট	1 (l)	camel	/u:/		
10	চমস	6 (l)	spoon	/s/		
11	জাহাজ	83 (h)	ship	/z/		
12	পা	70 (h)	foot	/f/		
13	ঘর	591 (h)	house	/g/		
14	ছেলে	242 (h)	boy	/f/		
15	সূর্য	112 (h)	sun	/ʃ/		
16	খরগোশ	11 (l)	rabbit	/k ^h /		
17	দন্ত	103 (h)	teeth	/d/		
18	প্রজাপতি	2 (l)	butterfly	/p/		
19	পেঁয়াজ	15 (l)	onion	/f/		
20	রাস্তা	197 (h)	road	/r/		
21	আনারস	9 (l)	pineapple	/ae/		
22	ডালা	2 (l)	padlock	/ʌ/		
23	চিংড়ি	0 (l)	prawn	/eɪ/		
24	ঘড়ী	81 (h)	watch	/g/		
25	ব্যা	1 (l)	frog	/b/		
26	চুল	148 (h)	hair	/s/		
27	বাঘ	7 (l)	tiger	/b ^h /		
28	হাগল	6 (l)	goat	/ʃ/		
29	পেঁচা	2 (l)	owl	/f/		
30	চিঠি	145 (h)	letter	/s/		
Total Correct			/30			

Appendix 15: Written naming test (English)

Name:

Date:

	Target	Word Frequency (written English) (Kučera & Francis, 1967) (h=high;l=low)	Cue	Picture Naming Response
	Trials			
a	banana		b	
b	sock		s	
	Test			
1	teeth	103 (h)	t	
2	swan	3 (l)	s	
3	neck	81 (h)	n	
4	onion	15 (l)	o	
5	umbrella	8 (l)	u	
6	frog	1 (l)	f	
7	padlock	2 (l)	l	
8	hair	148 (h)	h	
9	monkey	9 (l)	m	
10	grapes	0 (l)	g	
11	pineapple	9 (l)	p	
12	sun	112 (h)	s	
13	boy	242 (h)	b	
14	dog	75 (h)	d	
15	nose	60 (h)	n	
16	house	591 (h)	h	
17	key	88 (h)	k	
18	camel	1 (l)	c	
19	watch	81 (h)	w	
20	ship	83 (h)	s	
21	prawn	0 (l)	p	
22	letter	145 (h)	l	
23	goat	6 (l)	g	
24	foot	70 (h)	f	
25	spoon	6 (l)	s	
26	butterfly	2 (l)	b	
27	owl	2 (l)	o	
28	road	197 (h)	r	
29	rabbit	11 (l)	r	
30	tiger	7 (l)	t	
Total Correct				/30

Appendix 16: Written naming test (Bengali)

Name:		Date:		
	Target	Word Frequency (written English) (Kučera & Francis, 1967) (h=high;l=low)	Cue	Picture Naming Response
	<u>Trials</u>			
a	কলা		ক	
b	মোজা		ম	
	<u>Test</u>			
1	দত	103 (h)	দ	
2	রাজহাঁস	3 (l)	র	
3	গল	81 (h)	গ	
4	পেঁয়াজ	15 (l)	প	
5	ছাতা	8 (l)	ছ	
6	ব্যা	1 (l)	ব	
7	তালা	2 (l)	ত	
8	চুল	148 (h)	চ	
9	বীদর	9 (l)	ব	
10	আঙুর	0 (l)	আ	
11	আনারস	9 (l)	আ	
12	সূর্য	112 (h)	স	
13	ছেলে	242 (h)	ছ	
14	কুকুর	75 (h)	ক	
15	নাক	60 (h)	ন	
16	ঘর	591 (h)	ঘ	
17	চাবি	88 (h)	চ	
18	উট	1 (l)	উ	
19	ঘড়ী	81 (h)	ঘ	
20	জাহাজ	83 (h)	জ	
21	চিংড়ি	0 (l)	চ	
22	চিঠি	145 (h)	চ	
23	ছাগল	6 (l)	ছ	
24	পা	70 (h)	প	
25	চমস	6 (l)	চ	
26	প্রজাপতি	2 (l)	প	
27	পেঁচা	2 (l)	প	
28	রাস্তা	197 (h)	র	
29	খরগোশ	11 (l)	খ	
30	বাঘ	7 (l)	ব	
Total Correct				/30

Appendix 17: Word repetition test (English)

Name:

Date:

	Target	Word Frequency (written English) (Kučera & Francis, 1967) (h=high;l=low)	Response
	Trials		
a	banana		
b	sock		
	Test		
1	hair	148 (h)	
2	onion	15 (l)	
3	frog	1 (l)	
4	boy	242 (h)	
5	umbrella	8 (l)	
6	teeth	103 (h)	
7	watch	81 (h)	
8	swan	3 (l)	
9	house	591 (h)	
10	dog	75 (h)	
11	nose	60 (h)	
12	padlock	2 (l)	
13	pineapple	9 (l)	
14	goat	6 (l)	
15	spoon	6 (l)	
16	letter	145 (h)	
17	grapes	0 (l)	
18	owl	2 (l)	
19	sun	112 (h)	
20	monkey	9 (l)	
21	tiger	7 (l)	
22	road	197 (h)	
23	camel	1 (l)	
24	key	88 (h)	
25	rabbit	11 (l)	
26	foot	70 (h)	
27	prawn	0 (l)	
28	ship	83 (h)	
29	butterfly	2 (l)	
30	neck	81 (h)	
Total Correct			/30

Appendix 18: Word repetition test (Bengali)

Name:

Date:

	Target	Word Frequency (written English) (Kučera & Francis, 1967) (h=high;l=low)	Response
	Trials		
a	কলা		
b	মোজা		
	Test		
1	দত	103 (h)	
2	ছেলে	242 (h)	
3	থরগোশ	11 (l)	
4	নাক	60 (h)	
5	চমস	6 (l)	
6	জাহাজ	83 (h)	
7	পেঁয়াজ	15 (l)	
8	বীদর	1 (l)	
9	চাবি	88 (h)	
10	চিংড়ি	0 (l)	
11	সূয়	112 (h)	
12	কুকুর	75 (h)	
13	গল	81 (h)	
14	ছাতা	8 (l)	
15	প্রজাপতি	2 (l)	
16	রাজহাঁস	3 (l)	
17	ব্যা	1 (l)	
18	আঙুর	0 (l)	
19	ভাঙ্গা	2 (l)	
20	পা	70 (h)	
21	বাঘ	7 (l)	
22	আলারস	9 (l)	
23	পেঁচা	2 (l)	
24	উট	1 (l)	
25	চিঠি	145 (h)	
26	রাস্তা	197 (h)	
27	ঘর	591 (h)	
28	ছাগল	6 (l)	
29	চুল	148 (h)	
30	ঘড়ী	81 (h)	
Total Correct			/30

Appendix 19: Spoken word to picture matching test (English)

Name:

Date:

	Target	Word Frequency (written English) (Kučera & Francis, 1967) (h=high,l=low)	Close Semantic	Distant Semantic	Visually Related	Unrelated
	<u>Trials</u>					
a	lips		nose	arm	watermelon	orange
b	book		newspaper	shelf	suitcase	basket
	<u>Test</u>					
1	mother	216 (h)	father	nurse	pin	ball
2	leaf	12 (l)	flower	nut	feather	bird
3	car	274 (h)	bicycle	train	tortoise	owl
4	window	119 (h)	door	wall	letter	pen
5	tree	59 (h)	branch	nest	umbrella	boots
6	duck	9 (l)	swan	fish	teapot	cup
7	comb	6 (l)	brush	mirror	ruler	pencil sharpener
8	elephant	7 (l)	rhino	goat	hoover	broom
9	hammer	9 (l)	nail	chisel	toothbrush	teeth
10	rain	70 (h)	lightning	sun	sieve	bowl
11	girl	220 (h)	boy	teacher	eggcup	chicken
12	face	371 (h)	neck	foot	button	zip
13	moon	60 (h)	star	cloud	banana	apple
14	donkey	1 (l)	zebra	cow	ironing board	iron
15	eye	122 (h)	ear	hand	lemon	grapes
16	fox	13 (l)	dog	tiger	table	chair
17	mouse	10 (l)	cat	monkey	plug	switch
18	wheel	56 (h)	road	nut	web	spider
19	horse	117 (h)	camel	crocodile	piano	drum
20	carrot	1 (l)	potato	tomato	paintbrush	paint
21	necklace	3 (l)	ring	chain	rope	knot
22	shoe	14 (l)	sock	glove	peanut	squirrel
23	gun	118 (h)	sword	arrow	wrench	screwdriver
24	scissors	1 (l)	knife	paper	k hand	fist
25	thumb	10 (l)	finger	leg	bollard	sign
26	parrot	1 (l)	sparrow	ostrich	claw hand	arm
27	baby	62 (h)	dummy	safety pin	beetle	wasp
28	rose	86 (h)	daffodil	cactus	glass	bottle
29	worm	4 (l)	caterpillar	ant	string	wool
30	cage	9 (l)	fish tank	box	pepper	lettuce
	Total Correct	/30	Close Semantic Errors /30	Distant Semantic Errors /30	Visual Errors /30	Unrelated Errors /30

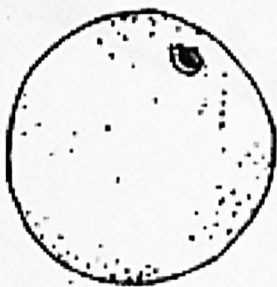
Appendix 20: Spoken word to picture matching test (Bengali)

Name:

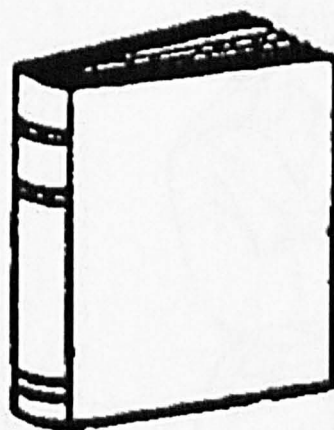
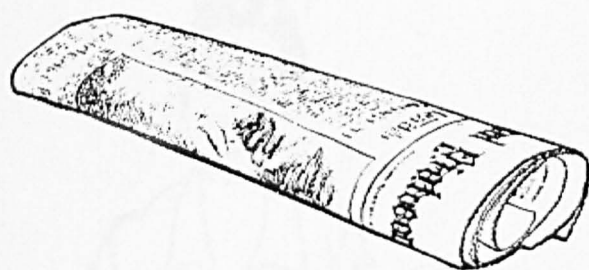
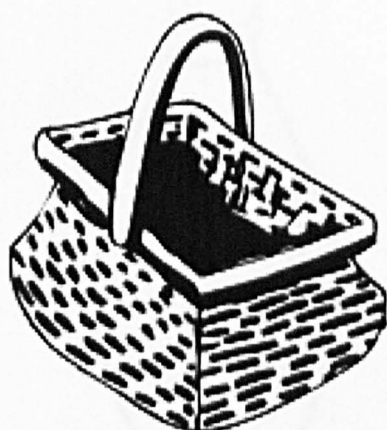
Date:

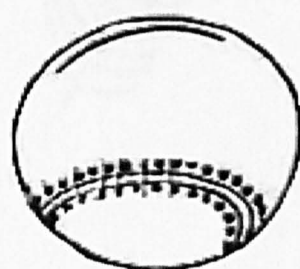
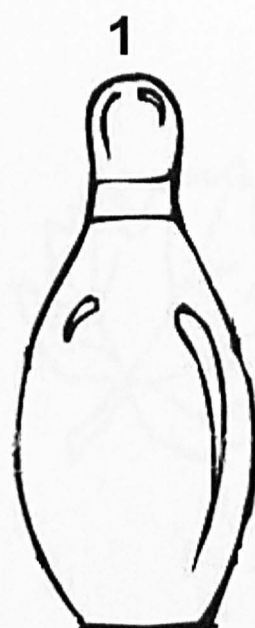
	Target	Word Frequency (written English) (Kučera & Francis, 1967) (h=high;l=low)	Close Semantic	Distant Semantic	Visually Related	Unrelated
	Trials					
a	ঠাট (lips)		nose	arm	watermelon	orange
b	বই (book)		newspaper	shelf	suitcase	basket
	Test					
1	মেয়ে (girl)	220 (h)	boy	teacher	eggcup	chicken
2	চিরুনি (comb)	6 (l)	brush	mirror	ruler	pencil sharpener
3	মায়ী (mother)	216 (h)	father	nurse	pin	ball
4	গাছ (tree)	59 (h)	branch	nest	umbrella	boots
5	বৃষ্টি (rain)	70 (h)	lightning	sun	sieve	bowl
6	পিস্তল (cage)	9 (l)	fish tank	box	pepper	lettuce
	হাতুড়ি					
7	(hammer)	9 (l)	nail	chisel	toothbrush	teeth
8	কাঁচি (scissors)	1 (l)	knife	paper	k hand	fist
9	চাকা (wheel)	56 (h)	road	nut	web	spider
10	কেচ (worm)	4 (l)	caterpillar	ant	string	wool
11	পাতা (leaf)	12 (l)	flower	nut	feather	bird
	জালনা					
12	(window)	119 (h)	door	wall	letter	pen
	গলমালা					
13	(necklace)	3 (l)	ring	chain	rope	knot
14	বন্দুক (gun)	118 (h)	sword	arrow	wrench	screwdriver
15	গাড়ি (car)	274 (h)	bicycle	train	tortoise	owl
16	অক্ষি (eye)	122 (h)	ear	hand	lemon	grapes
17	শিয়াল (fox)	13 (l)	dog	tiger	table	chair
18	গাজর (carrot)	1 (l)	potato	tomato	paintbrush	paint
19	ঘোড়া (horse)	117 (h)	camel	crocodile	piano	drum
20	মুখ (face)	371 (h)	neck	foot	button	zip
21	ইন্দুর (mouse)	10 (l)	cat	monkey	plug	switch
22	হাতি (elephant)	7 (l)	rhino	goat	hoover	broom
23	হাস (duck)	9 (l)	swan	fish	teapot	cup
24	গুল (rose)	86 (h)	daffodil	cactus	glass	bottle
25	বৃদ্ধাঙ্গুলি (thumb)	10 (l)	finger	leg	bollard	sign
26	চাঁদা (moon)	60 (h)	Star	cloud	banana	apple
	কাকাভূয়া					
27	(parrot)	1 (l)	sparrow	ostrich	claw hand	arm
28	বাচ্চা (baby)	62 (h)	dummy	safety pin	beetle	wasp
29	জুতা (shoe)	14 (l)	sock	glove	peanut	squirrel
30	গাশা (donkey)	1 (l)	zebra	cow	ironing board	iron
	Total Correct		Close Semantic Errors	Distant Semantic Errors	Visual Errors	Unrelated Errors
		/30	/30	/30	/30	/30

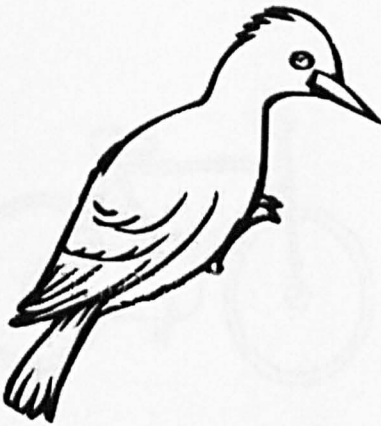
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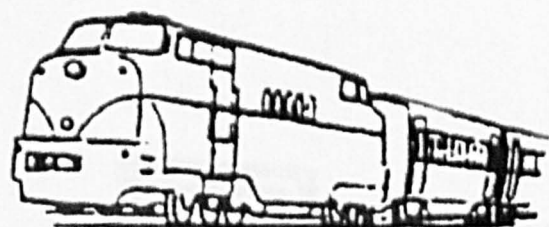
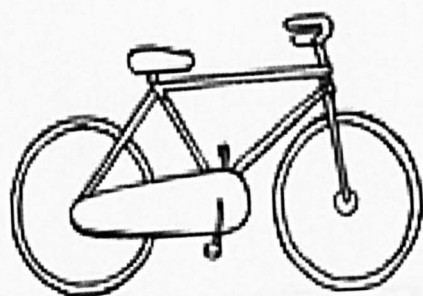
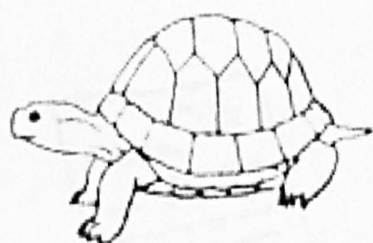


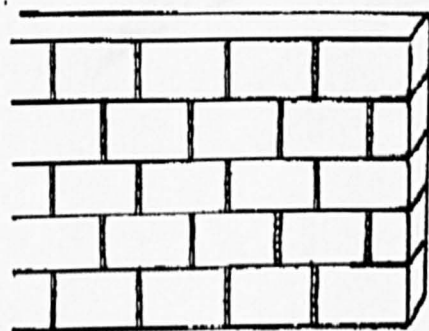
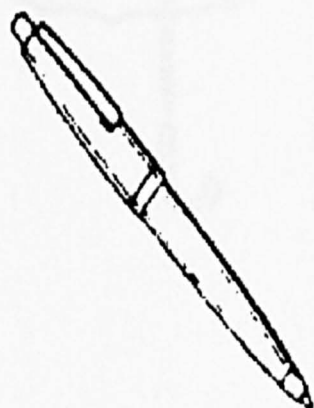
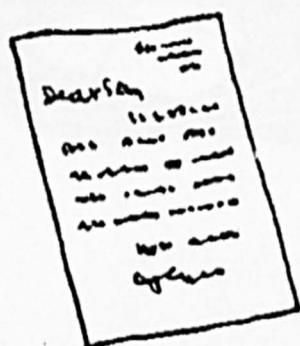
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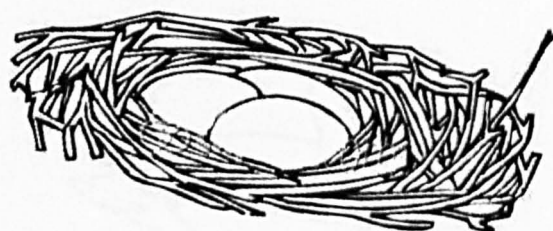




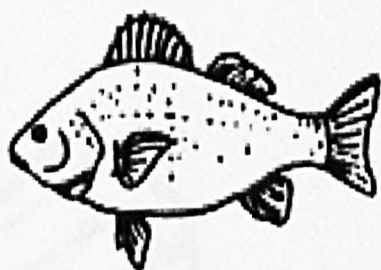
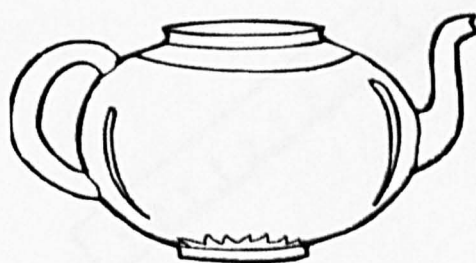
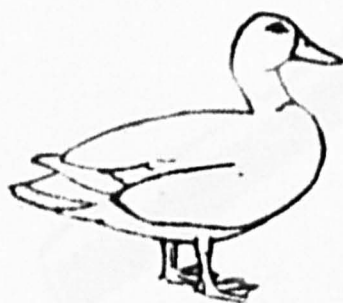




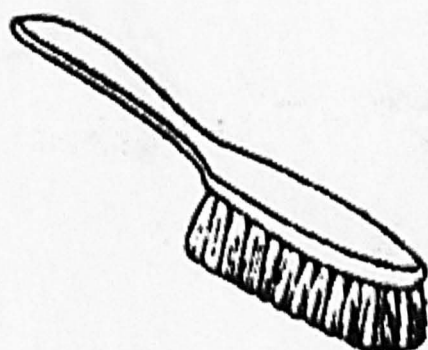
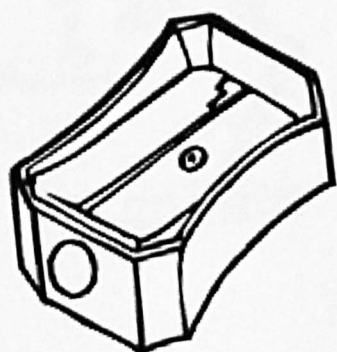
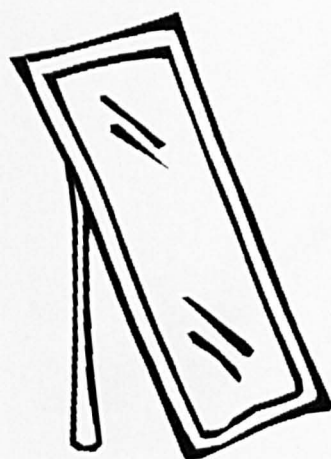


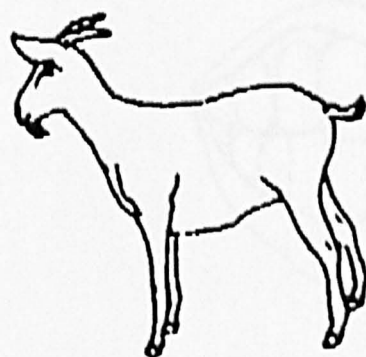
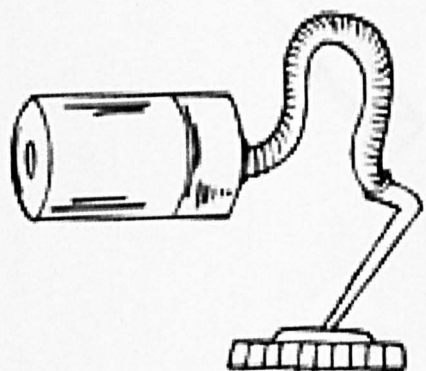
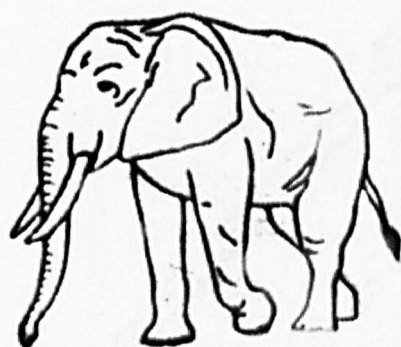
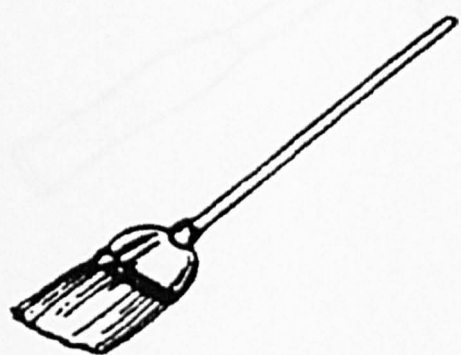
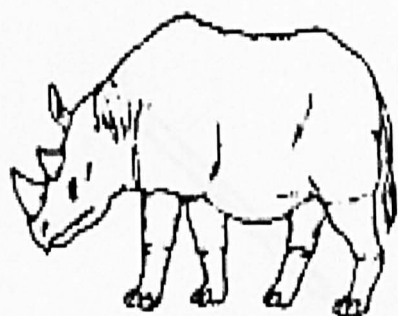


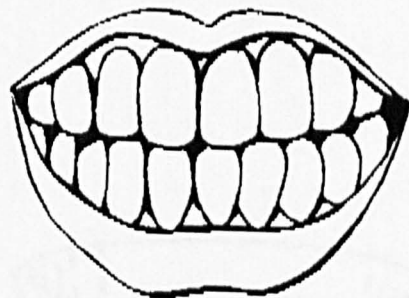
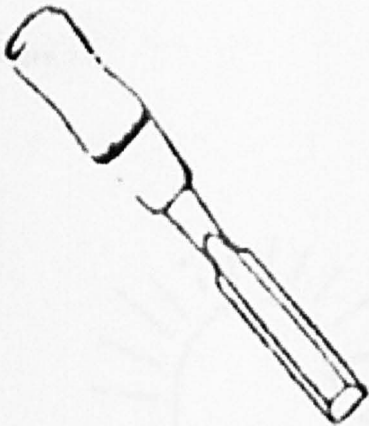
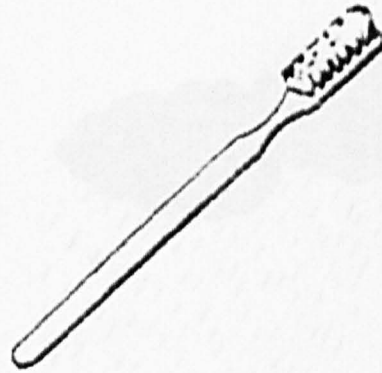
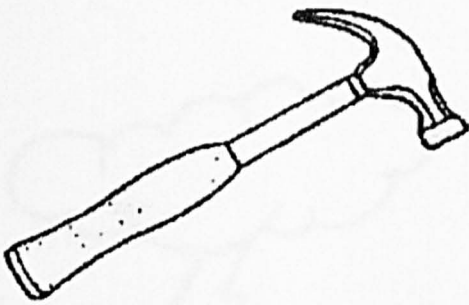
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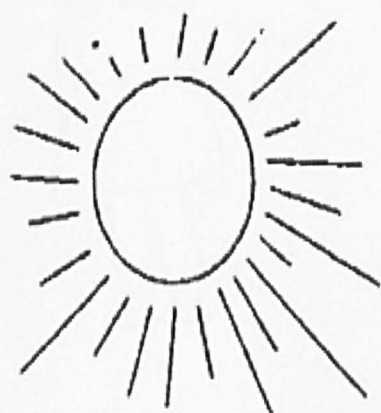
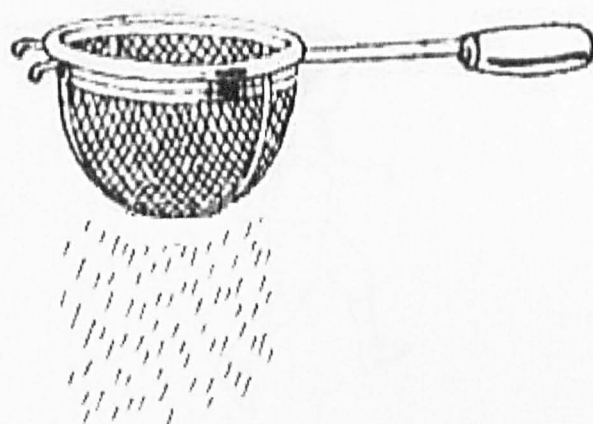


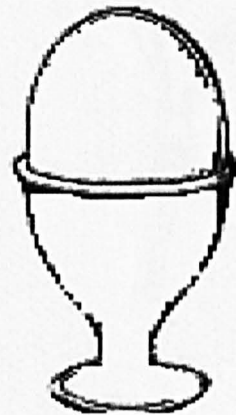
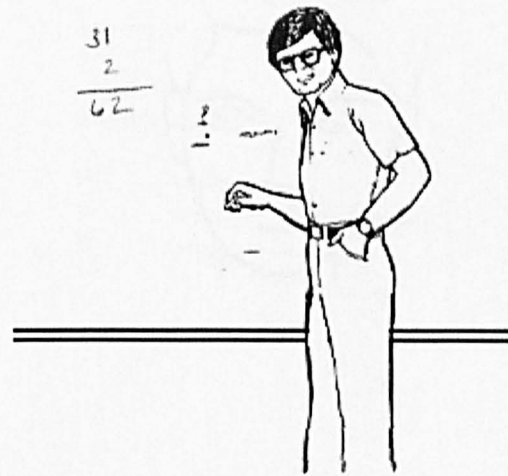
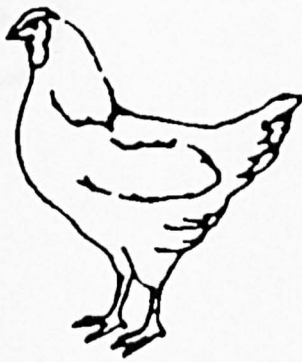
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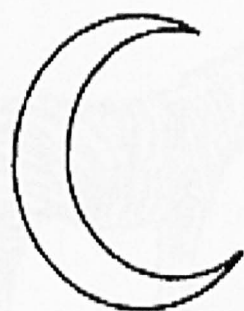


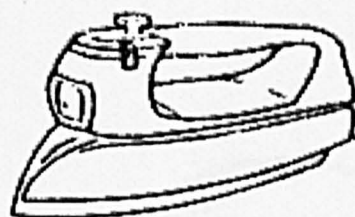
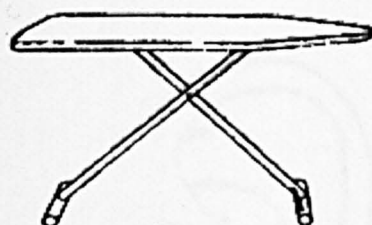
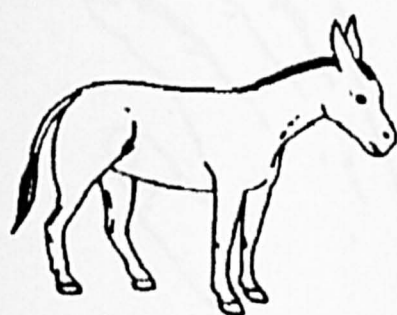


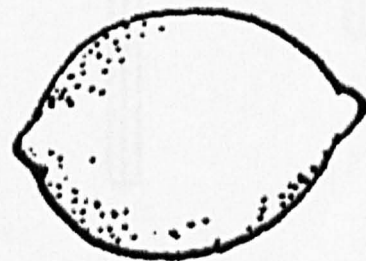
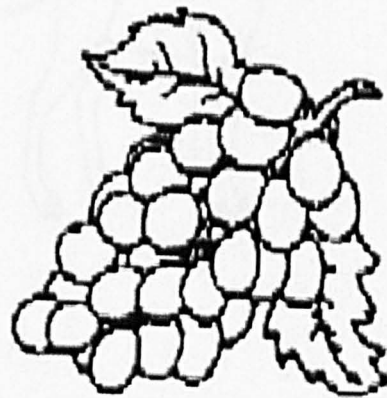


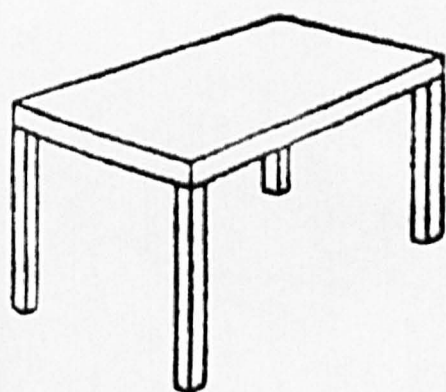
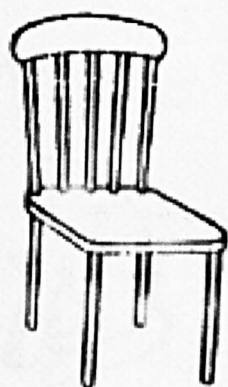
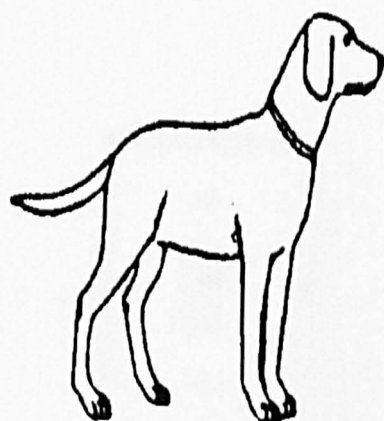
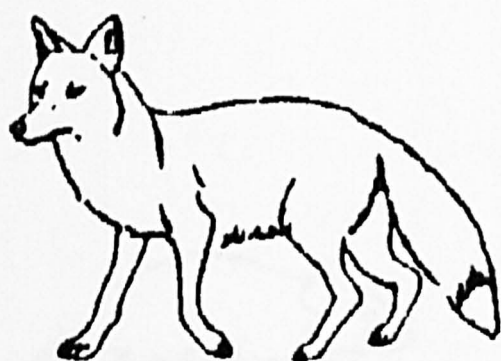
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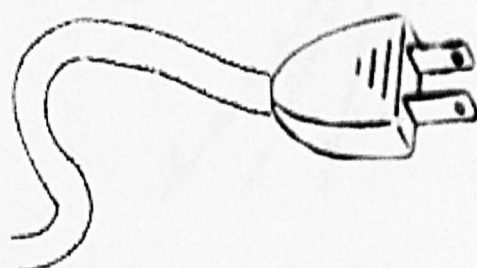
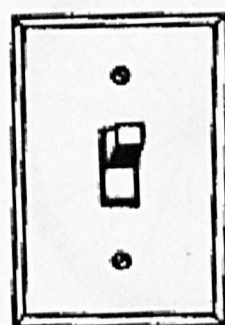


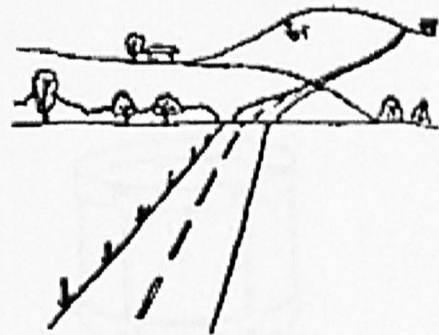
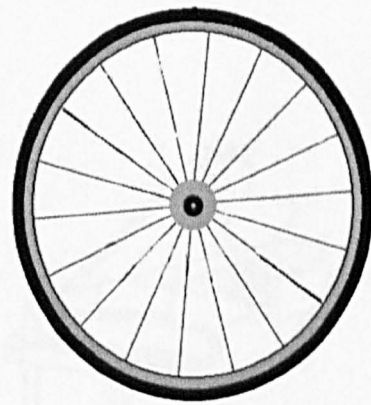
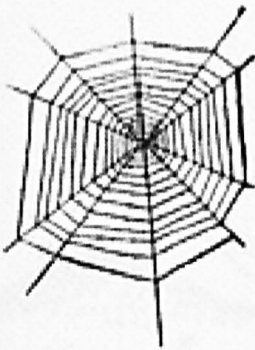


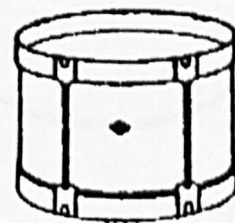
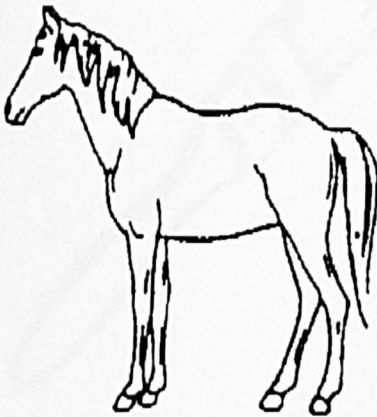
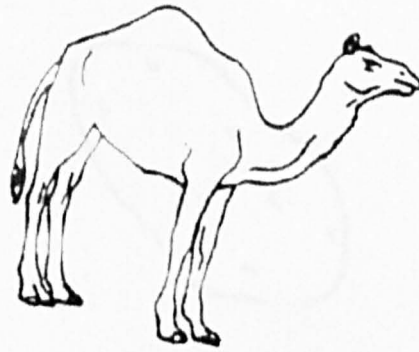


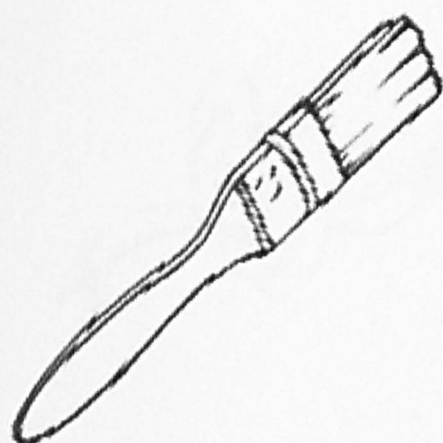


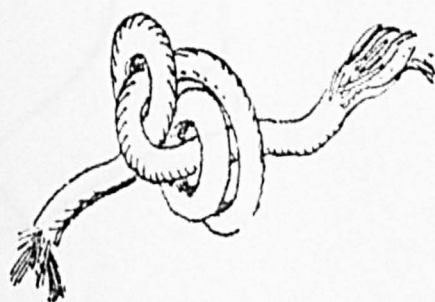
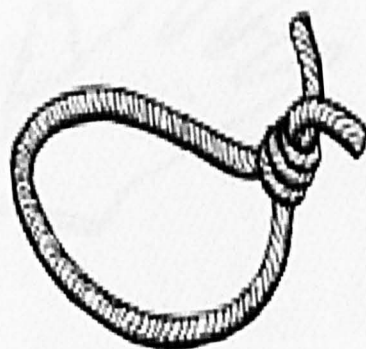
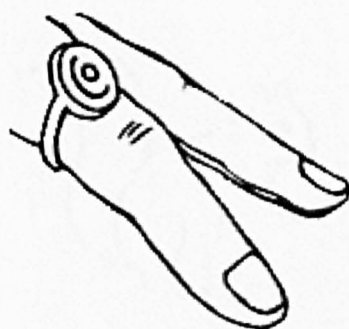


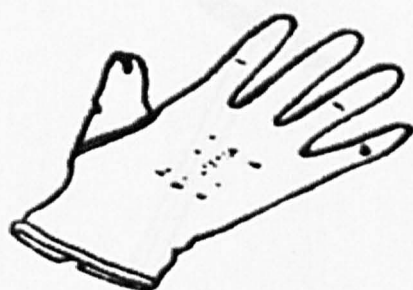


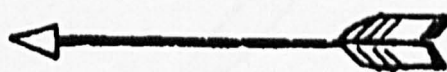
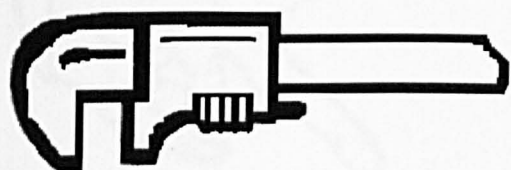
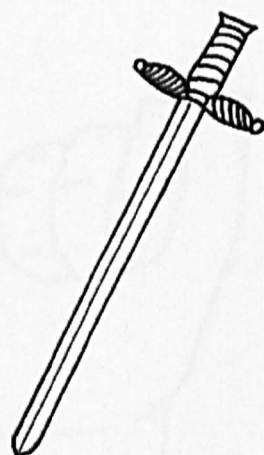
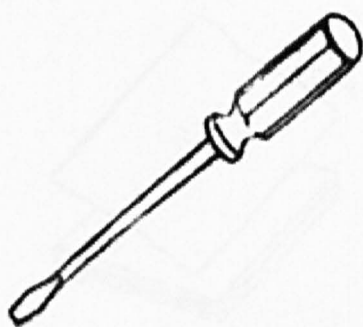


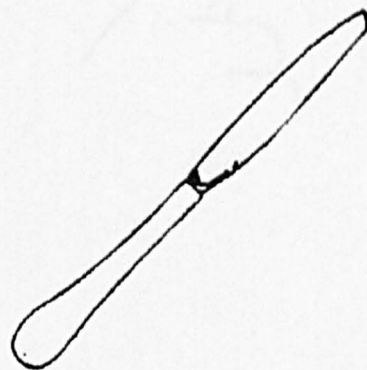
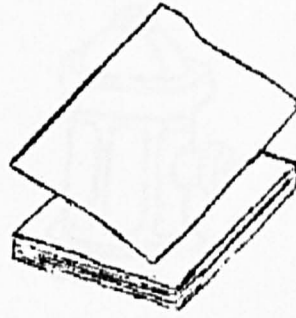


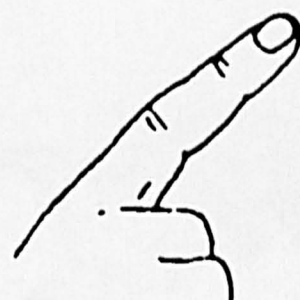
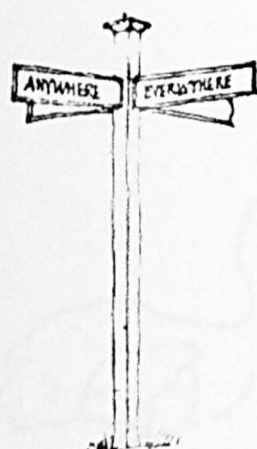




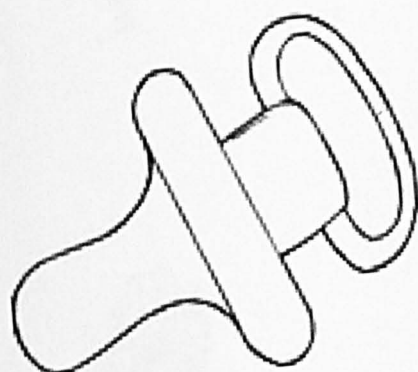
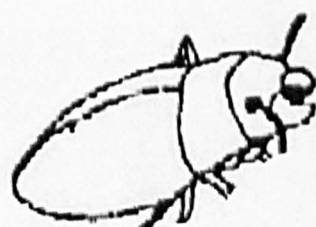




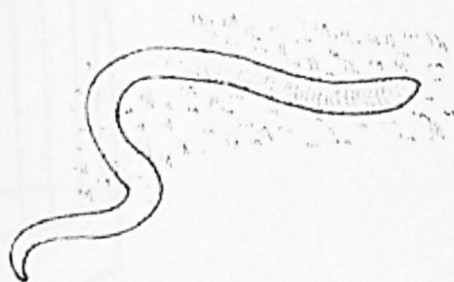
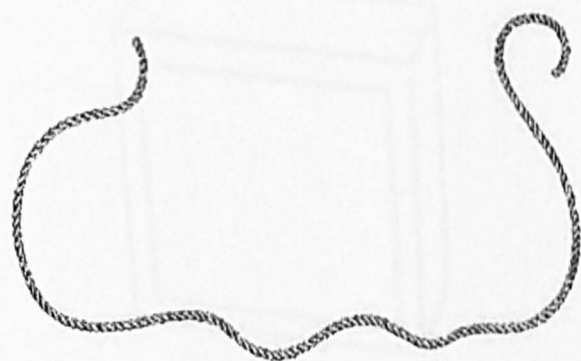


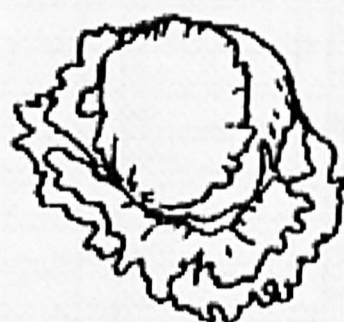
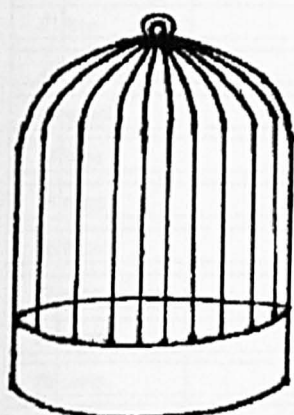
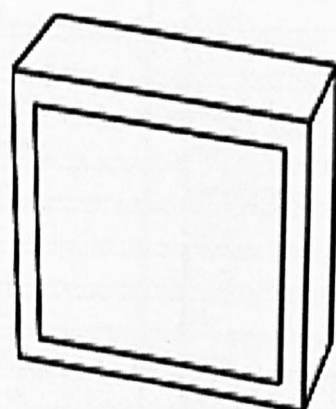
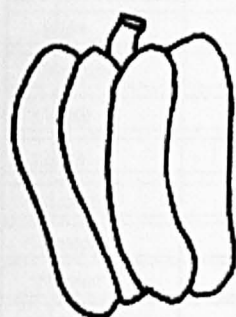
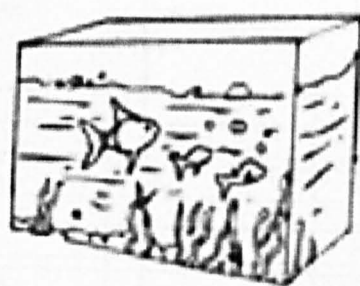












Appendix 22: Written word to picture matching test (English)

Name:

Date:

	Target	Word Frequency (written English) (Kučera & Francis, 1967) (h=high,l=low)	Close Semantic	Distant Semantic	Visually Related	Unrelated
	Trials					
	a lips		nose	arm	watermelon	orange
	b book		newspaper	shelf	suitcase	basket
	Test					
1	window	119 (h)	door	wall	letter	pen
2	rain	70 (h)	lightning	sun	sieve	bowl
3	duck	9 (l)	swan	fish	teapot	cup
4	hammer	9 (l)	nail	chisel	toothbrush	teeth
5	car	274 (h)	bicycle	train	tortoise	owl
6	leaf	12 (l)	flower	nut	feather	bird
7	mother	216 (h)	father	nurse	pin	ball
8	mouse	10 (l)	cat	monkey	plug	switch
9	girl	220 (h)	boy	teacher	eggcup	chicken
10	donkey	1 (l)	zebra	cow	ironing board	iron
11	face	371 (h)	neck	foot	button	zip
12	eye	122 (h)	ear	hand	lemon	grapes
13	comb	6 (l)	brush	mirror	ruler	pencil sharpener
14	elephant	7 (l)	rhino	goat	hoover	broom
15	parrot	1 (l)	sparrow	ostrich	claw hand	arm
16	gun	118 (h)	sword	arrow	wrench	screwdriver
17	scissors	1 (l)	knife	paper	k hand	fist
18	moon	60 (h)	star	cloud	banana	apple
19	fox	13 (l)	dog	tiger	table	chair
20	baby	62 (h)	dummy	safety pin	beetle	wasp
21	tree	59 (h)	branch	nest	umbrella	boots
22	necklace	3 (l)	ring	chain	rope	knot
23	wheel	56 (h)	road	nut	web	spider
24	shoe	14 (l)	sock	glove	peanut	squirrel
25	horse	117 (h)	camel	crocodile	piano	drum
26	thumb	10 (l)	finger	leg	bollard	sign
27	cage	9 (l)	fish tank	box	pepper	lettuce
28	worm	4 (l)	caterpillar	ant	string	wool
29	carrot	1 (l)	potato	tomato	paintbrush	paint
30	rose	86 (h)	daffodil	cactus	glass	bottle
	Total Correct		Close Semantic	Distant Semantic	Visual Errors	Unrelated
		/30	Errors /30	Errors /30	/30	Errors /30

Appendix 23: Written word to picture matching test (Bengali)

Name:

Date:

	Target	Word Frequency (written English) (Kučera & Francis, 1967) (h=high;l=low)	Close Semantic	Distant Semantic	Visually Related	Unrelated
	Trials					
a	ঠোঁট (lips)		nose	arm	watermelon	orange
b	বই (book)		newspaper	shelf	suitcase	basket
	Test					
1	গাড়ি (car)	274 (h)	bicycle	train	tortoise	owl
2	হাস (duck)	9 (l)	swan	fish	teapot	cup
3	বৃষ্টি (rain)	70 (h)	lightning	sun	sieve	bowl
4	গাছ (tree)	59 (h)	branch	nest	umbrella	boots
	জালসালা					
5	(window)	119 (h)	door	wall	letter	pen
6	ঘোড়া (horse)	117 (h)	camel	crocodile	piano	drum
7	চিরুনি (comb)	6 (l)	brush	mirror	ruler	pencil sharpener
8	ম্মা (mother)	216 (h)	father	nurse	pin	ball
9	মেয়ে (girl)	220 (h)	boy	teacher	eggcup	chicken
10	গাধা (donkey)	1 (l)	zebra	cow	ironing board	iron
11	মুখ (face)	371 (h)	neck	foot	button	zip
12	পিরার (cage)	9 (l)	fish tank	box	pepper	lettuce
13	চাকা (wheel)	56 (h)	road	nut	web	spider
14	কাঁচি (scissors)	1 (l)	knife	paper	k hand	fist
15	বন্দুক (gun)	118 (h)	sword	arrow	wrench	screwdriver
16	অঙ্খি (eye)	122 (h)	ear	hand	lemon	grapes
17	কেচ (worm)	4 (l)	caterpillar	ant	string	wool
18	গাজর (carrot)	1 (l)	potato	tomato	paintbrush	paint
19	পাতা (leaf)	12 (l)	flower	nut	feather	bird
20	চাঁদা (moon)	60 (h)	Star	cloud	banana	apple
21	পিয়াল (fox)	13 (l)	dog	tiger	table	chair
22	গুল (rose)	86 (h)	daffodil	cactus	glass	bottle
23	হাতি (elephant)	7 (l)	rhino	goat	hoover	broom
24	ইঁদুর (mouse)	10 (l)	cat	monkey	plug	switch
25	জুতা (shoe)	14 (l)	sock	glove	peanut	squirrel
26	বাচ্চা (baby)	62 (h)	dummy	safety pin	beetle	wasp
	কাকাতুয়া					
27	(parrot)	1 (l)	sparrow	ostrich	claw hand	arm
	গলমালা					
28	(necklace)	3 (l)	ring	chain	rope	knot
29	বৃদ্ধাসুপি (thumb)	10 (l)	finger	leg	bollard	sign
	হাতুরি					
30	(hammer)	9 (l)	nail	chisel	toothbrush	teeth
	Total Correct		Close Semantic Errors	Distant Semantic Errors	Visual Errors	Unrelated Errors
		/30	/30	/30	/30	/30

Appendix 24: Written stimuli for written word to picture matching and reading aloud tests (English)

See inside cover.

Appendix 25: Written stimuli for written word to picture matching and reading aloud tests (Bengali)

See inside cover.

Appendix 26: Test of reading aloud (English)

Name:

Date:

	Target	Word Frequency (written English) (Kučera & Francis, 1967) (h=high;l=low)	Response
	Trials		
a	lips		
b	book		
	Test		
1	window	119 (h)	
2	rain	70 (h)	
3	duck	9 (l)	
4	hammer	9 (l)	
5	car	274 (h)	
6	leaf	12 (l)	
7	mother	216 (h)	
8	mouse	10 (l)	
9	girl	220 (h)	
10	donkey	1 (l)	
11	face	371 (h)	
12	eye	122 (h)	
13	comb	6 (l)	
14	elephant	7 (l)	
15	parrot	1 (l)	
16	gun	118 (h)	
17	scissors	1 (l)	
18	moon	60 (h)	
19	fox	13 (l)	
20	baby	62 (h)	
21	tree	59 (h)	
22	necklace	3 (l)	
23	wheel	56 (h)	
24	shoe	14 (l)	
25	horse	117 (h)	
26	thumb	10 (l)	
27	cage	9 (l)	
28	worm	4 (l)	
29	carrot	1 (l)	
30	rose	86 (h)	
Total Correct			/30

Appendix 27: Test of reading aloud (Bengali)

Name:

Date:

	Target	Word Frequency (written English) (Kučera & Francis, 1967) (h=high;l=low)	Response
	Trials		
a	ওঁঠ (lips)		
b	বই (book)		
	Test		
1	গাড়ী (car)	274 (h)	
2	হাস (duck)	9 (l)	
3	বরষা (rain)	70 (h)	
4	গাছ (tree)	59 (h)	
5	জানালা (window)	119 (h)	
6	ঘোড়া (horse)	117 (h)	
7	চিরুণী (comb)	6 (l)	
8	মায় (mother)	216 (h)	
9	মেয়ে (girl)	220 (h)	
10	গাধা (donkey)	1 (l)	
11	মুখ (face)	371 (h)	
12	পাঁজা (cage)	9 (l)	
13	চাকা (wheel)	56 (h)	
14	কচি (scissors)	1 (l)	
15	বন্দুক (gun)	118 (h)	
16	অঁকর (eye)	122 (h)	
17	কঁচ (worm)	4 (l)	
18	গাজর (carrot)	1 (l)	
19	পাতা (leaf)	12 (l)	
20	চাঁদা (moon)	60 (h)	
21	দাঁতাল (fox)	13 (l)	
22	গুন (rose)	86 (h)	
23	হাতী (elephant)	7 (l)	
24	ইঁদুর (mouse)	10 (l)	
25	জুতা (shoe)	14 (l)	
26	বাঁচ্চা (baby)	62 (h)	
27	পাখা (parrot)	1 (l)	
28	গলমালা (necklace)	3 (l)	
29	হঁদবঁহঁদ (thumb)	10 (l)	
30	হাতুমা (hammer)	9 (l)	
Total Correct			/30

INFORMATION SHEET (for aphasic participants)

Project Title:

Word finding difficulties in bilingual aphasia: implications for speech and language therapy

Investigators:

Dr. Jane Marshall (City University); Dr. Tim Pring (City University); Matthew Hardwick (Speech and Language Therapy Manager, Barts and the London NHS Trust); Stephen Croft (City University)

The project is funded by:

Barts and the London NHS Trust

Background:

Aphasia is a language problem caused by brain damage, such as stroke. Aphasia often makes speech slow, with word finding problems. Reading and writing may be difficult. If the person is bilingual (uses more than one language), both languages will be affected.

What is the aim of the project?

This project aims to find out about aphasia in bilingual people who use Bengali-Sylheti and English. We want to know:

- If language problems in Bengali-Sylheti and English are similar
- If speech and language therapy helps bilingual aphasic people say more words
- If speech and language therapy given in English helps the person's Bengali-Sylheti

Why are we asking you to be involved?

We are asking you because you are bilingual in Bengali-Sylheti and English and you have aphasia following a stroke.

What will be involved?

We will ask you about what language you speak and about your difficulties since your stroke. If you agree, we will contact your regular speech and language therapist and your hospital consultant to find out more about your stroke.

You will do some language tests in Bengali-Sylheti and English. The tests are simple and not risky or dangerous. For example, we may ask you to say the name of a drawing. If you agree, we will record some of the tests on audio or video tape. These tests could be done in your own home or at the Royal London Hospital. This choice is yours. We will need about eight visits to complete the tests.

You may take part in a second, therapy study. You will do some more tests and have 10 hours of speech and language therapy. This therapy will be in English and will aim to improve your speech. After the therapy, we will test you again to see if you can say more words in English and in Bengali-Sylheti. Again, the therapy can be done in your own home or at the Royal London Hospital – it's up to you.

Are there any benefits?

The project should teach us more about aphasia, particularly in speakers of Bengali-Sylheti and English. It should help us to work more effectively with aphasic people from the Bengali-Sylheti community.

We will not pay you to take part. If you are included in our therapy study you may make some improvements in your speech. If you travel to the hospital to take part in the project, we will pay your expenses.

Is taking part voluntary?

Absolutely. You only take part if you want to. You can join the project and then decide that you don't want to carry on. This is fine; you can leave at any time. This will not cause you any problems.

Will results be confidential?

Yes. All information will be locked away at City University. We will not pass on information about you to anyone else unless you agree.

When we report our results we will not use any names. We will refer to you with a made-up name or by initials alone.

At the end of the project we would like to keep video recordings to use in teaching, but only if you agree. If you prefer, we will destroy your tapes.

How will we publish the results?

We will publish our results in scientific journals and at conferences for other professionals. Stephen Croft will write a thesis for a PhD qualification. We will also tell people from the Bengali-Sylheti community about our research. We plan to give talks in community centres and write articles for community magazines.

You will be sent a leaflet about our main findings, even if you choose to leave the project.

How can I get more information?

If you are worried about any aspect of the project or want more information, please contact:

Stephen Croft, Speech and Language Therapist
Telephone: 020 70404664
Email: s.croft@city.ac.uk

or the project supervisor:

Dr. Jane Marshall, Senior Lecturer
Telephone: 020 70404668
Email: j.marshall@city.ac.uk

তথ্য পত্র (অ্যাফাসিয়া অংশগ্রহণকারীদের জন্য)

প্রজেক্টের নাম :

দ্বিভাষিক অ্যাফাসিয়ায় শব্দ খোঁজার অসুবিধা : কথা ও ভাষা চিকিৎসায় ব্যবহার্য

অনুসন্ধানকারীগণ :

ডঃ জেন মার্শাল (সিটি মহাবিদ্যালয়), ডঃ টিম প্রিন্স (সিটি মহাবিদ্যালয়), ম্যাথু হার্ডউইক (কথা ও ভাষা চিকিৎসা ব্যবস্থাপক, বাটস ও লন্ডন এনএইচএস তহবিল); স্টীফেন ক্রফট (সিটি মহাবিদ্যালয়)

প্রজেক্ট এর তহবিল দ্বারা চালিত :

বাটস ও লন্ডন এনএইচএস তহবিল

পশ্চাদপট :

অ্যাফাসিয়া হল ভাষাগত সমস্যা যা মস্তিষ্কের ক্ষতির ফলে হয়, যেমন আঘাত। অ্যাফাসিয়া প্রায়শই কথা বলাকে আশ্রয় করে দেয়, শব্দ খোঁজার সমস্যা সহ। পড়া ও লেখাতেও অসুবিধা হতে পারে। যদি ব্যক্তি দ্বিভাষিক হন (একাধিক ভাষা ব্যবহার করে) তবে দুটো ভাষাই আক্রান্ত হতে পারে।

প্রজেক্টের লক্ষ্য কি ?

প্রজেক্টের লক্ষ্য হল দ্বিভাষিক ব্যক্তিদের অ্যাফাসিয়া সমস্যা খুঁজে বার করা যারা বাংলা-সিলেটি এবং ইংরেজী ব্যবহার করে। আমরা জানতে চাই :

- যদি ভাষা সমস্যা বাংলা-সিলেটি এবং ইংরেজীতে সমান হয়
- যদি কথা ও ভাষা চিকিৎসা দ্বিভাষিক অ্যাফাসিয়া ব্যক্তিদের বেশী শব্দ বলতে সাহায্য করে
- যদি কথা ও ভাষা চিকিৎসা ইংরেজীতে দেওয়া হয় তা বাংলা-সিলেটি ভাষাত ব্যক্তিদের সাহায্য করে

আমরা কেন আপনাকে অংশ নিতে বলছি ?

আমরা বলছি কারণ আপনি দ্বিভাষিক বাংলা-সিলেটি এবং ইংরেজীতে এবং আপনার আঘাতজনিতভাবে অ্যাফাসিয়া আছে।

কি অংশীভূত হবে ?

আমরা আপনাকে জিজ্ঞাসা করব যে আপনি কোন ভাষায় কথা বলেন এবং আঘাত পর্যন্ত আপনার সমস্যার বিষয়ে। যদি রাজী থাকেন তবে আপনার নিত্যদিনের কথা ও ভাষা চিকিৎসক এবং হাসপাতাল পরামর্শদাতার সাথে কথা বলব আপনার আঘাতের ব্যাপারে আরও বিশদ জানতে।

আপনি বাংলা-সিলেটি এবং ইংরেজীতে কিছু ভাষা পরীক্ষা করবেন। পরীক্ষাটা সহজ এবং কোন ক্ষতির আশঙ্কা নেই। উদাহরণস্বরূপ, আমরা আপনাকে একটা অঙ্কনের নাম জিজ্ঞাসা করব। যদি আপনি রাজী থাকেন, পরীক্ষার কিছু আমরা ডিডিও / অডিও টেপে রেকর্ড করব। এই পরীক্ষা আপনার ঘরেও করা যায় বা রয়্যাল লন্ডন হাসপাতালে। পছন্দটা আপনার। এই পরীক্ষাটা সমাপ্ত করতে আমাদের আটটা সাক্ষাতের প্রয়োজন।

আপনি দ্বিতীয় চিকিৎসা গবেষণাতেও অংশ নিতে পারেন। আরও বেশ কিছু পরীক্ষা করাতে হবে এবং কথা ও ভাষা চিকিৎসায় ১০ ঘন্টা সময় লাগবে। চিকিৎসা ইংরেজীতে হবে এবং এর লক্ষ্য থাকবে আপনার কথা বলাকে উন্নত করা। চিকিৎসার পর আমরা আবার আপনাকে পরীক্ষা করব এটা দেখতে যে আপনি আরও বেশ কিছু শব্দ বাংলা-সিলেটি এবং ইংরেজীতে বলতে পারছেন কি না। আবার, চিকিৎসাটা আপনার বাড়ী বা রয়্যাল লন্ডন হাসপাতালে হবে - আপনার পছন্দ মত।

এটায় কিছু লাভ কি আছে ?

প্রজেক্ট অ্যাফাসিয়া সম্বন্ধে বিশদে জানাবে বিশেষ করে বাংলা-সিলেটি এবং ইংরেজী ভাষার ব্যক্তিদের। বাংলা-সিলেটি সমপ্রদায়ের অ্যাফাসিয়াজনিত ব্যক্তিদের জন্য এটা আরও সক্রিয়ভাবে কাজ করতে সাহায্য করবে।

আমরা আপনার অংশগ্রহণের জন্য কিছু অর্থ দিতে পারব না। যদি আপনি এই চিকিৎসা গবেষণায় অংশ নেন তবে কথা বলা কিছুটা উন্নত করতে পারবেন। যদি প্রজেক্টে অংশ নিতে হাসপাতালে আসেন তবে আসার খরচ দেওয়া হবে।

স্বচ্ছাসেবা হিসাবে অংশ নেওয়া যায় কি ?

নিশ্চয়ই, চাইলেই অংশ নিতে পারেন। আপনি প্রজেক্টে যোগ দিতে পারেন এবং তারপর ঠিক করতে পারেন চালাবেন কি না। আপনি যেকোন সময় ছেড়ে যেতে পারেন। এটা আপনার কোন সমস্যা তৈরী করবে না।

ফলাফল কি গোপনীয় থাকবে ?

হ্যাঁ। সব তথ্য সিটি মহাবিদ্যালয়ে তালাবদ্ধ থাকবে। আমরা আপনার সম্বন্ধে কোন তথ্য আপনার অনুমতি ছাড়া কাউকে দেব না।

যখন কোন ফলাফল নথিভুক্ত করব তখন কোন নাম থাকবে না। আমরা আপনাকে বানানো নামের বা শুধু প্রথম অক্ষরের উল্লেখ দেব।

প্রজেক্টের শেষে ভিডিও রেকর্ডিংটা শিক্ষার জন্য রেখে দিতে চাইব একমাত্র যদি আপনি রাজী থাকেন। আপনার মনে হলে আমরা টেপটা নষ্ট করে ফেলব।

আমরা ফলাফল কিভাবে প্রকাশ করব ?

অন্যান্য পেশাদারদের জন্য আমরা ফলাফল বিজ্ঞান সংবাদপত্র এবং সম্মেলনে প্রকাশ করব। স্টীফেন ক্রফট একটা গবেষণাপত্র লিখবেন পিএইচডি যোগ্যতার জন্য। আমরা বাংলা-সিলেটি সমপ্রদায়ে আমাদের গবেষণার বিষয়ে বলব। আমাদের পরিকল্পনা আছে এলাকাভিত্তিক কেন্দ্রে কথা বলার এবং সমপ্রদায়ভিত্তিক ম্যাগাজিনে প্রবন্ধ লিখব।

আমাদের প্রধান খোঁজগুলোর ওপর আপনাকে একটা প্রচারপত্র পাঠাব, যদি আপনি ছেড়ে যান তাতেও।

আমি কিভাবে বিশদ তথ্য পেতে পারি ?

যদি প্রজেক্টের দৃষ্টিভঙ্গি নিয়ে কোন চিন্তা থাকে বা বিশদ তথ্য চান, তবে দয়া করে যোগাযোগ করুন :

স্টীফেন ক্রফট, কথা ও ভাষা চিকিৎসক

টেলিফোন: ০২০ ৭০৪০৪৬৬৪

ইমেল: s.croft@city.ac.uk

বা প্রজেক্ট নিয়ন্ত্রায়ক,

ডঃ জেন মার্শাল, প্রধান অধ্যাপক

টেলিফোন: ০২০ ৭০৪০৪৬৬৪

ইমেল: j.marshall@city.ac.uk

ঠিকানা: ভাষা ও যোগাযোগ বিজ্ঞান বিভাগ
 সিটি মহাবিদ্যালয়
 নর্থামটন স্কয়ার
 লন্ডন ইসি১ডি০এইচবি



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Consent Form

**Project title: Word finding difficulties in bilingual aphasia:
implications for speech and language therapy**

Your name:

Address:

.....

.....

- The study organisers have invited me to take part in the research.

Yes

☐

- I understand the leaflet/video about the research. I have a copy of the leaflet to keep.

Yes

☐

- I have had a chance to talk and ask questions about the study.

Yes

☐

- I know what my part will be in the study and I know how long it will take.

Yes

☐

- I agree that the researcher can audio/video tape my sessions.

Yes

☐

No

☐

- I agree that the researcher can use my tapes to teach students and other professionals.

Yes

☐

No

☐

- I agree that the researcher can read my speech and language therapy notes.

Yes

☐

No

☐

- I agree that the researcher can read my medical notes to get information about my stroke.

Yes

☐

No

☐

- I know that the East London and The City Research Ethics Committee has seen and agreed to this study.

Yes

☐

- I understand that personal information is strictly confidential. I know the only people who may see information about my part in the study are the research team.

Yes

☐

- I understand that my personal information may be stored on a computer. If this is done it will not affect the confidentiality of this information. All such storage of information must comply with the 1998 Data Protection Act.

Yes

☐

- I know that the researchers will tell my general practitioner (GP) about my part in the study.

Yes

☐

- I freely consent to take part in this study. No one has put pressure on me. I know that I can stop taking part in the study at any time. I know that if I do not take part I will still be able to have my normal therapy.

Yes

☐

I know that if there are any problems I can contact:

Stephen Croft, Speech and Language Therapist

Telephone: 020 70404664

or the project supervisor:

Dr. Jane Marshall, Senior Lecturer

Telephone: 020 70404668

Participant's signature

Date

প্রতিযোগীতা পত্র

প্রজেক্টের নাম : দ্বিভাষিক অ্যাফাসিয়ায় শব্দ খোঁজার অসুবিধা : কথা
ও ভাষা চিকিৎসায় ব্যবহার্য

আপনার নাম :

ঠিকানা :

.....

.....

- গবেষণা সংস্থা আমাকে গবেষণা অংশ নিতে অভ্যর্থনা জানিয়েছে

হ্যাঁ

☐

- গবেষণা সংক্রান্ত প্রচারপত্র / ভিডিও আমি বুঝেছি। রাখার জন্য প্রচারপত্রের একটা প্রতিলিপি আছে।

হ্যাঁ

☐

গবেষণা সংক্রান্ত কথা বলা ও জিজ্ঞাসা করার জন্য আমার সুযোগ আছে।

হ্যাঁ

☐

গবেষণায় আমার অংশ এবং কত সময় নেবে তা আমি জানি।

হ্যাঁ

☐

গবেষক আমার অংশের ভিডিও / অডিও টেপ করে রাখার ব্যাপারে আমি রাজী।

হ্যাঁ

☐

না

☐

আমি রাজী যে গবেষক আমার টেপ ছাত্রছাত্রী ও পেশাদারদের শিক্ষার ক্ষেত্রে ব্যবহার করবে।

হ্যাঁ

☐

না

☐

আমি রাজী যে গবেষক কথা ও ভাষা চিকিৎসায় আমার লেখা পড়বে।

হ্যাঁ

☐

না

☐

• আমি রাজী যে গবেষক আমার চিকিৎসায় সংক্রান্ত লেখা পড়বে আমার গতিধারা বুঝতে।

হ্যাঁ

☐

না

☐

• আমি জানি যে পূর্ব লন্ডন এবং শহর গবেষণা নৈতিক সমিতি এই গবেষণা দেখেছে ও রাজী হয়েছে।

হ্যাঁ

☐

• আমি জানি যে ব্যক্তিগত তথ্য কঠোরভাবে গোপনীয়। আমি জানি যে শুধু তারাই আমার এই গবেষণা সংক্রান্ত তথ্য দেখতে পাবে যারা গবেষণা দলে আছেন।

হ্যাঁ

☐

• আমি জানি যে আমার ব্যক্তিগত তথ্য কমপিউটারে ভরে রাখা হবে। যদি এটা করা হয় তা তথ্যের গোপনীয়তায় প্রভাব ফেলবে না। সমস্ত ভরে রাখা তথ্য ১৯৯৮ এর তথ্য নিরাপত্তা আইন মেনে চলবে।

হ্যাঁ

☐

• আমি জানি যে গবেষকরা আমার অংশের গবেষণার ওপর সাধারণ পেশাদারিত্ব (GP) বিষয়ে বলবে।

হ্যাঁ

☐

• আমি মুক্তভাবে গবেষণায় অংশ নেব। কেউ আমাকে চাপ দেবে না। আমি জানি যেকোন সময়ে গবেষণায় অংশগ্রহণ বন্ধ করতে পারি। আমি জানি যদি আমি অংশ না নিই তবে আমি আমার সাধারণ চিকিৎসা চালিয়ে যেতে পারব।

হ্যাঁ

☐

আমি জানি যদি কোন সমস্যা হয় তবে যোগাযোগ করব :

স্টীফেন ক্রফট, কথা ও ভাষা চিকিৎসক

টেলিফোন : ০২০ ৭০৪০৪৬৬৪

বা প্রজেক্ট তত্ত্বাবধায়ক:

ডঃ জেন মার্শাল, প্রধান অধ্যাপক

টেলিফোন : ০২০ ৭০৪০৪৬৬৮

অংশগ্রহণকারীর সই

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Appendix 32: Therapy targets with lexical variables for the five aphasic participants

Saleha

English Target	Word Frequency (written English) (Kučera & Francis, 1967)	No. of Phonemes	Bengali Target	No. of Phonemes
Group 1				
arm	94	2	হাত	3
baby	62	4	বাবা	4
banana	4	6	কলা	4
bangle	0	5	চুড়ি	4
book	193	3	বই	2
cabbage	4	5	কপি	4
coriander	1	8	ধনিয়া	6
dog	75	3	কুকুর	5
doll	10	3	পুতুল	5
girl	220	3	মেয়ে	4
leg	58	3	পা	2
mirror	27	4	যনা	3
neck	81	3	গল	4
needle	15	4	সুই	3
paper	157	4	কাগজ	5
pen	18	3	কলম	5
pill	15	3	গুটি	4
prawn	0	4	চিংড়ি	5
prayer beads	28	7	তসবি	6
rice	33	3	ভাত	3
river	165	4	নদী	4
rolling pin	19	8	বেলুন	5
saw	352	2	করাত	6
shoe	14	2	জুতা	4
sock	4	3	মোজা	4
squirrel	1	6	কাঠবেলা	8
tea	28	2	চা	2
teeth	103	3	দত	3
thumb	10	3	বৃদ্ধাঙ্গুলি	8
tongue	35	3	জিহ্বা	4
Group 2				
boy	242	2	ছেলে	4
comb	6	3	চিরুনি	5
garlic	4	5	রশুন	5
juice	11	3	রস	3
money	265	4	পয়সা	4
moon	60	3	চাঁদা	4
mosque	10	4	মসজিদ	7

nail	6	3	লহা	4
necklace	3	6	গলমালা	8
newspaper	65	8	পত্রিকা	7
nose	60	3	নাক	3
nut	15	3	বাদাম	5
oil	93	2	তেল	3
onion	15	5	পেঁয়াজ	5
orange	23	5	কমলা	6
path	44	3	রাস্তা	5
pestle	1	4	ঘুটানি	5
pineapple	9	6	আনারস	6
postman	2	7	পিয়ন	5
prayer hat	0	6	টকি	4
ring	47	3	আংটি	4
roof	59	3	ছাত	3
sieve	1	3	ছাঁকনি	5
stairs	0	4	সোপান	5
sun	112	3	সূর্য	5
teapot	0	5	কেটলি	6
toe	9	2	অঙ্গুলি	5
tree	59	3	গাছ	3
watch	81	4	ঘড়ী	4
window	119	5	জানালা	6
Group 3				
bird	31	3	পাখি	4
broom	2	4	ঝাড়ু	4
candle	18	5	মোমবাতি	7
car	274	2	গাড়ি	4
cat	23	3	বিড়াল	5
chicken	37	6	মূর্গি	5
chickpea	0	5	চানা	4
chilli	0	5	মরিচ	5
cucumber	0	8	শশা	4
date	103	3	খেজুর	5
door	312	2	দরজা	6
ear	29	1	কান	3
eye	122	1	অক্ষি	3
finger	40	5	অঙ্গুলি	4
forehead	16	5	কপাল	5
ginger	2	5	আদা	3
glove	9	4	হাত-মোজা	7
hair	148	2	চুল	3
key	88	2	চাবি	4
lamp	18	4	বাতি	4
lentils	0	7	দাল	3

lightning	14	6	বিজলি	5
man	1207	3	বেটা	4
pot	28	3	ইড়ি	5
pumpkin	2	7	লাউ	3
soap	22	3	সাবান	5
spinach	2	6	শাক	3
spoon	6	4	চমস	5
trousers	7	6	প্যান্ট	5
umbrella	8	7	ছাতা	4
Group 4				
blanket	30	7	কম্বল	6
bucket	7	5	বালতি	5
carrot	1	5	গাজর	4
children	355	8	বান্ধাৰ	6
city	393	4	নগর	5
coconut	7	7	নাইরকল্	5
dentist	12	7	দাঁতৰডাক্তার	11
egg	12	2	ডা	4
elbow	10	4	কনুই	4
face	371	3	মুখ	3
fish	35	3	মাছ	3
garden	60	5	বাগান	5
glasses	0	6	চশমা	5
grapes	3	5	আঙুর	5
hammer	9	4	হাতুৰি	5
house	591	3	ঘৰ	3
iron	43	3	ইস্তিৰি	6
kitchen	90	6	শালা	4
knee	35	2	জানু	4
knife	76	3	ছুরি	4
letter	145	4	চিঠি	4
lips	0	4	ঠোটে	3
mango	0	5	আম	3
meat	45	3	গোস্ত	4
mother	216	4	ম্মা	3
prayer mat	0	6	জামনাখাল	7
rain	70	3	বৃষ্টি	5
scissors	1	5	কাঁচি	5
shovel	5	4	বেলচা	5
thread	15	4	সূতা	4
Group 5				
ankle chain	8	8	নুপল	5
aubergine	0	6	বেগুন	5
baggage	4	5	লটবহর	9

brain	45	4	মগজ	5
bush	14	3	জঙ্গল	5
button	10	4	বোতাম	5
cauliflower	1	8	ফুলকপি	7
cloud	28	4	মেঘ	3
cradle	7	5	দোলনা	5
cupboard	2	5	আলমারি	6
doorknob	0	5	কড়া	4
dustman	0	7	দার	3
field	274	4	ক্ষেত্র	4
fire	187	3	আগুন	4
headscarf	0	7	হীজেব	5
jackfruit	0	7	কাঁটাল	5
lamb	7	3	ভেড়া	4
lipstick	0	7	ঠোঁটপালিশ	8
market	155	5	বাজার	5
melon	1	5	ভরশুজ	6
milk	49	4	দুধ	3
padlock	2	6	তালা	4
pencil	34	5	কষি	4
potato	15	6	শু	3
scales	0	6	তুল	4
shopkeeper	0	7	দুকানদার	8
snow	59	3	বরফ	5
teacher	80	5	মাস্টার	7
toys	0	3	খেলনা	6
wrist	10	4	কবজি	5

Salma

English Target	Word Frequency (written English) (Kučera & Francis, 1967)	No. of Phonemes	Bengali Target	No. of Phonemes
Group 1				
book	193	3	বই	2
bush	14	3	জঙ্গল	5
cabbage	4	5	কপি	4
cauliflower	1	8	ফুলকপি	7
chickpea	0	5	চাশা	4
chilli	0	5	মরিচ	5
ear	29	1	কান	3
fish	35	3	মাছ	3
garden	60	5	বাগান	5
ginger	2	5	আদা	3
grapes	3	5	আঙুর	5
hammer	9	4	হাডুরি	5
lamb	7	3	ভেড়া	4
lentils	0	7	দাল	3

market	155	5	বাজার	5
nail	6	3	নহা	4
necklace	3	6	গলমালা	8
newspaper	65	8	পত্রিকা	7
nose	60	3	নাক	3
orange	23	5	কমলা	6
pestle	1	4	ষুটানি	5
pineapple	9	6	আনারস	6
prawn	0	4	চিংড়ি	5
prayer mat	0	6	জামানামাজ	7
shoe	14	2	জুতা	4
sock	4	3	মোজা	4
spinach	2	6	শাক	3
stairs	0	4	সোপান	5
thumb	10	3	বৃদ্ধাঙ্গুলি	8
toe	9	2	অঙ্গুলি	5
Group 2				
baby	62	4	বাচ্চা	4
bucket	7	5	বাগডি	5
candle	18	5	মোমবাতি	7
carrot	1	5	গাজর	4
children	355	8	বাচ্চার	6
coriander	1	8	ধনিয়া	6
dentist	12	7	দাঁতরডাক্তার	11
forehead	16	5	কপাল	5
hair	148	2	চুল	3
jackfruit	0	7	কাঁটাল	5
lamp	18	4	বাতি	4
mango	0	5	আম	3
mirror	27	4	যনা	3
money	265	4	পয়সা	4
moon	60	3	চাঁদা	4
needle	15	4	সুই	3
nut	15	3	বাদাম	5
padlock	2	6	তালা	4
paper	157	4	কাগজ	5
path	44	3	রাষ্টা	5
pencil	34	5	কলম	4
plate	22	4	থালি	4
postman	2	7	দিয়েল	5
potato	15	6	লু	3
river	165	4	নদী	4
scissors	1	5	কাঁচি	5
tongue	35	3	জিহ্বা	4
toys	0	3	খেলনা	6
tree	59	3	গাছ	3

window	119	5	জানালা	6
Group 3				
ankle chain	8	8	মুপল	5
arm	94	2	হাত	3
boy	242	2	ছেলে	4
broom	2	4	ঝাড়ু	4
bus	34	3	বড়গাড়ি	8
button	10	4	বোতাম	5
cap	27	3	টুপি	4
cat	23	3	বিড়াল	5
chicken	37	6	মুগি	5
city	393	4	নগর	5
cloud	28	4	মেঘ	3
date	103	3	খেজুর	5
doll	10	3	পুতুল	5
elbow	10	4	কনুই	4
face	371	3	মুখ	3
field	274	4	ক্ষেত্র	4
hob	1	3	চুল্লি	4
iron	43	3	ইস্তিরি	6
knife	76	3	ছুরি	4
leg	58	3	পা	2
meat	45	3	গোস্ত	4
mosque	10	4	মসজিদ	7
pen	18	3	কলম	5
prayer beads	28	7	তসবি	6
rain	70	3	বৃষ্টি	5
rolling pin	19	8	বেগুন	5
saw	352	2	করাত	6
scales	0	6	তুল	4
teeth	103	3	দত	3
watch	81	4	ঘড়ী	4
Group 4				
aubergine	0	6	বেগুন	5
blanket	30	7	কম্বল	6
coconut	7	7	নাইরকল	5
comb	6	3	চিরুনি	5
cucumber	0	8	শশা	4
dog	75	3	কুকুর	5
doorknob	0	5	কড়া	4
eye	122	1	অক্ষি	3
finger	40	5	অঙ্গুলি	4
garlic	4	5	রশুন	5
glove	9	4	হাত-মোজা	7
hem	4	3	মুড়ি	4
juice	11	3	রস	3
lightning	14	6	বিজপি	5

lips	0	4	ঠোঁট	3
milk	49	4	দুধ	3
neck	81	3	গল	4
onion	15	5	পেঁয়াজ	5
pot	28	3	ইড়ি	5
rice	33	3	ডাত	3
shovel	5	4	বেলচা	5
sieve	1	3	ছাঁকনি	5
soap	22	3	সাবান	5
spoon	6	4	চমস	5
sweatshirt	0	7	কামিজ	5
tea	28	2	চা	2
teacher	80	5	মাস্টার	7
teapot	0	5	কেটলি	6
thread	15	4	সূতা	4
train	82	4	রেলগাড়ি	7
Group 5				
baggage	4	5	লটবহর	9
banana	4	6	কলা	4
bangle	0	5	ছুড়ি	4
blood	121	4	রক্ত	5
camel	1	5	উট	2
cuff	1	3	হাতা	4
cupboard	2	5	আলমারি	6
door	312	2	দরজা	6
egg	12	2	ডা	4
girl	220	3	মেয়ে	4
glasses	0	6	চশমা	5
headscarf	0	7	হীজেব	5
henna	0	4	মোহেদি	6
house	591	3	ঘর	3
key	88	2	চাবি	4
kitchen	90	6	খালা	4
letter	145	4	চিঠি	4
lipstick	0	7	ঠোঁটপালিশ	8
man	1207	3	বেটা	4
mother	216	4	ম্মা	3
oil	93	2	তেল	3
pill	15	3	গুটি	4
prayer hat	0	6	টকি	4
snow	59	3	বরফ	5
stomach	37	6	পাকানয়	9
sun	112	3	সূর্য	5
thimble	1	5	অঙ্গুপিত্র	8
trainers	0	6	কেডস	4
trousers	7	6	প্যান্ট	5
umbrella	8	7	ছাতা	4

Tarik

English Target	Word Frequency (written English) (Kučera & Francis, 1967)	No. of Phonemes	Bengali Target	No. of Phonemes
Group 1				
banana	4	6	কলা	4
broom	2	4	ঝাড়ু	4
bucket	7	5	বালতি	5
bush	14	3	জঙ্গল	5
camel	1	5	উট	2
cap	27	3	টুপি	4
carrot	1	5	গাজর	4
cauliflower	1	8	ফুলকপি	7
city	393	4	নগর	5
cloud	28	4	মেঘ	3
glasses	0	6	চশমা	5
grapes	3	5	আঙুর	5
iron	43	3	ইস্তিরি	6
man	1207	3	বেটা	4
mango	0	5	আম	3
money	265	4	পয়সা	4
mother	216	4	ম্মা	3
neck	81	3	গল	4
nose	60	3	নাক	3
nut	15	3	বাদাম	5
orange	23	5	কমলা	6
path	44	3	রাস্তা	5
pen	18	3	কলম	5
pill	15	3	গুটি	4
prayer mat	0	6	আব্রশাহাজ	7
rice	33	3	ভাত	3
spinach	2	6	শাক	3
sun	112	3	সূ্য	5
tea	28	2	চা	2
teapot	0	5	কেটলি	6
Group 2				
aubergine	0	6	বেগুন	5
bird	31	3	পাখি	4
button	10	4	বোতাম	5
cabbage	4	5	কপি	4
candle	18	5	মোমবাতি	7
chicken	37	6	মূর্গি	5
chickpea	0	5	চানা	4

coconut	7	7	নাইরকল	5
comb	6	3	চিরুনি	5
coriander	1	8	ধনিয়া	6
dog	75	3	কুকুর	5
garden	60	5	বাগান	5
hair	148	2	চুল	3
hammer	9	4	হাতুরি	5
jackfruit	0	7	কাঁটাল	5
juice	11	3	রস	3
lamp	18	4	বাতি	4
meat	45	3	গোস্ত	4
newspaper	65	8	পত্রিকা	7
padlock	2	6	তালা	4
pineapple	9	6	আনারস	6
plate	22	4	থালি	4
rain	70	3	বৃষ্টি	5
river	165	4	নদী	4
saw	352	2	করাত	6
scales	0	6	তুল	4
spoon	6	4	চমস	5
stairs	0	4	সোপান	5
teeth	103	3	দত	3
window	119	5	জানালা	6
Group 3				
axe	6	3	কুড়াল	5
blanket	30	7	কম্বল	6
car	274	2	গাড়ি	4
cat	23	3	বিড়াল	5
chilli	0	5	মরিচ	5
cucumber	0	8	শশা	4
doorknob	0	5	কড়া	4
egg	12	2	ভা	4
eye	122	1	অঙ্ঘি	3
glove	9	4	হাত-মোজা	7
hob	1	3	চুল্লি	4
key	88	2	চাবি	4
knife	76	3	ছুরি	4
lamb	7	3	ভেড়া	4
leg	58	3	পা	2
lightning	14	6	বিজপি	5
market	155	5	বাজার	5
melon	1	5	তরমুজ	6
milk	49	4	দুধ	3
nail	6	3	লহা	4
pencil	34	5	কবি	4

pliers	1	5	সন্দংশ	7
prayer beads	28	7	তসবি	6
rolling pin	19	8	বেলুন	5
teacher	80	5	মাস্টার	7
tongue	35	3	জিব	4
toys	0	3	খেলনা	6
tree	59	3	গাছ	3
umbrella	8	7	ছাতা	4
watch	81	4	ঘড়ী	4
Group 4				
arm	94	2	হাত	3
baby	62	4	বাম্বা	4
blood	121	4	রক্ত	5
book	193	3	বই	2
boy	242	2	ছেলে	4
children	355	8	বাম্বার	6
chisel	4	5	বাটালি	6
date	103	3	খেজুর	5
door	312	2	দরজা	6
elbow	10	4	কনুই	4
face	371	3	মুখ	3
fish	35	3	মাছ	3
garlic	4	5	রশুন	5
kitchen	90	6	শালা	4
knee	35	2	জানু	4
letter	145	4	চিঠি	4
lips	0	4	ঠোঁট	3
onion	15	5	পেঁয়াজ	5
postman	2	7	পিয়ন	5
pot	28	3	ইন্ডি	5
potato	15	6	পু	3
ring	47	3	আংটি	4
roof	59	3	ছাত	3
scissors	1	5	কাঁচি	5
snow	59	3	বরফ	5
sock	4	3	মোজা	4
thread	15	4	সূতা	4
thumb	10	3	বৃদ্ধাসুপি	8
toe	9	2	অঙ্গুলি	5
wrist	10	4	কবজি	5
Group 5				
ablution	0	7	অজু	3
baggage	4	5	লটবহর	9
bus	34	3	বড়গাড়ি	8
cupboard	2	5	আলমারি	6

dentist	12	7	দাঁতেরডাক্তার	11
ear	29	1	কান	3
field	274	4	ক্ষেত্র	4
finger	40	5	অঙ্গুলি	4
forehead	16	5	কপাল	5
ginger	2	5	আদা	3
girl	220	3	মেয়ে	4
house	591	3	ঘর	3
lentils	0	7	দাল	3
mirror	27	4	যনা	3
moon	60	3	চাঁদা	4
mosque	10	4	মসজিদ	7
necklace	3	6	গলমালা	8
needle	15	4	সুই	3
oil	93	2	তেল	3
paper	157	4	কাগজ	5
pestle	1	4	ঘুটানি	5
prawn	0	4	চিংড়ি	5
prayer hat	0	6	টকি	4
shoe	14	2	জুতো	4
shovel	5	4	বেলচা	5
sieve	1	3	ছাঁকনি	5
soap	22	3	সাবান	5
stomach	37	6	পাকাশয়	9
train	82	4	রেলগাড়ি	7
trousers	7	6	প্যান্ট	5

Rasheda

English Target	Word Frequency (written English) (Kučera & Francis, 1967)	No. of Phonemes	Bengali Target	No. of Phonemes
Group 1				
bee	11	2	মৌমাছি	6
blackbird	0	7	কালাপাখী	8
butterfly	2	7	প্রজাপতি	9
camel	1	5	উট	2
crab	0	4	কর্কট	5
dentist	12	7	দাঁতেরডাক্তার	11
desert	21	5	মরুভূমি	8
dustman	0	7	দার	3
forehead	16	5	কপাল	5
grain	27	4	শস্য	4
hail	10	3	শিলাবৃষ্টি	10
juice	11	3	রস	3

knee	35
lake	54
launderer	0
lightning	14
lobster	1
midwife	1
optician	0
ostrich	0
pumpkin	2
rabbit	11
rhinoceros	3
rock	75
shark	0
spine	6
stomach	37
swan	3
tailor	2
tongue	35
Group 2	
antelope	7
beetle	0
butcher	8
cabbage	4
cauliflower	1
chickpea	0
cloud	28
cobbler	0
coriander	1
cucumber	0
deer	13
field	274
grapes	3
lentils	0
lizard	0
llama	0
mechanic	5
meerkat	0
melon	1
mountain	33
nut	15
owl	2
painter	21

2	জানু	4
3	সরসী	5
7	ধূপা	4
6	বিজলি	5
6	গলদা চিংড়	9
6	ধাই	4
7	চক্ষুডাক্তার	10
6	উটপাখি	6
7	লাউ	3
5	খরগোশ	5
9	গভার	6
3	পাতথর	6
3	হাঙর	5
4	সেরুদণ্ড	9
6	পাকাশয়	9
4	রাজহাঁস	5
4	দরজি	4
3	জিব	4
7	হুড়াল	5
4	পুক	3
5	কসাই	4
5	কপি	4
8	ফুলকপি	7
5	চানা	4
4	মেঘ	3
5	মুটি	4
8	ধনিয়া	6
8	শশা	4
2	হরিণ	6
4	ক্ষেত্র	4
5	আঙুর	5
7	দাল	3
5	টিকটিকি	8
4	লামা	4
7	গাড়িমিগ্রি	11
5	একরকম বিড়াল	12
5	ভরমুজ	6
6	পর্বত	4
3	বাদাম	5
2	পেঁচা	4
5	চিত্রকর	5

palmtree	0
parrot	1
roofer	0
shopkeeper	0
snail	1
volcano	2
wave	46
Group 3	
air hostess	0
ant	5
anteater	0
aubergine	0
barber	8
bear	57
beaver	3
buffalo	16
builder	29
bull	14
carpenter	6
carrot	1
earthquake	9
farmer	23
fisherman	5
fist	26
fly	33
frog	1
garlic	4
hippopotamus	0
jackfruit	0
leaf	12
lion	17
monkey	9
mouse	10
prawn	0
river	165
rose	86
teacher	80
tiger	7
Group 4	
blood	121
brain	45
bush	14

6	তাল	3
5	কাকাতুয়া	8
4	ছাশ্মিত্রি	11
7	দুকানদার	8
4	শামুক	5
7	আমেয়গিরি	8
3	ডেউ	3
7	এয়ার হস্টেস	9
3	পিঁপড়ে	5
6	পিপড়াখাউরা	11
6	বেগুন	5
4	নাপিত	5
2	ভল্লুক	5
4	বীভার	5
6	মহিষ	5
5	মিত্রি	7
3	ষণ্ড	3
7	কাঠরমিত্রি	11
5	গাজর	4
6	ভূমিকম্প	9
4	চাষা	4
7	জালজীবী	8
4	মুষ্টি	4
3	মাছি	4
4	ব্যা	3
5	রশুন	5
11	হস্তী	5
7	কাঁটাল	5
3	পাতা	4
4	সিহ	5
5	বাঁদর	6
3	ইদুর	5
4	চিংড়ি	5
4	নদী	4
3	গুল	3
5	মাস্টার	7
4	বাঘ	3
4	রক্ত	5
4	মগজ	5
3	জঙ্গল	5

cook	47
crater	2
donkey	1
dragonfly	0
drought	5
eel	2
fishmonger	0
flood	19
fox	13
ginger	2
goat	6
island	167
lamb	7
mango	0
pineapple	9
postman	2
rainbow	4
root	30
scientist	17
sea	95
snow	59
spider	2
spinach	2
squirrel	1
vet	1
walrus	1
wolf	6
Group 5	
baker	36
blacksmith	2
calf	11
chilli	0
cleaner	9
cliff	11
coconut	7
cow	29
crocodile	1
date	103
fruit	35
garden	60
greengrocer	0
hedgehog	0

3	বাবুটি	6
5	গাত	4
5	গাধা	4
9	ফড়িং	5
4	খরা	4
2	বান	4
8	মাছুয়াল	7
4	বন্যা	4
4	শিয়াল	4
5	আদা	3
3	ছাগল	5
5	দ্বীপ	5
3	ভেড়া	4
5	আম	3
6	আনারস	6
7	পিয়ল	5
5	রামধনু	8
3	শিকড়	4
8	বিজালী	7
2	সমুদ্র	7
3	বরফ	5
5	মাকড়সা	4
6	শাক	3
6	কাঠবেরাল	8
3	চিকিৎসক	9
6	ঘোটক	5
4	নেকড়ে	4
4	কার	3
8	কামার	5
3	গরুবাচ্চা	8
5	মরিচ	5
5	সাক্কাইওয়াল	10
4	ডগু	4
7	নাইরকল	5
2	গরু	4
8	কুমির	5
3	খেজুর	5
4	ফল	3
5	বাগান	5
9	কাঁচামালের ব্যাপারী	14
6	সজারু	6

journalist	10	8	সংবাদদাতা	10
leopard	0	5	চিতাবাঘ	7
onion	15	5	পেঁয়াজ	5
printer	3	6	বার্ণিক	6
rat	6	3	বড়ইদূর	9
sailor	5	4	নাবিক	5
snake	44	4	সাপ	3
spring	127	5	ঝরনা	5
turtle	8	4	কচ্ছপ	5
valley	73	4	উপত্যকা	8
whale	0	3	তিমি	4
whirlpool	1	6	জল	4
wool	10	3	পশম	5
worm	4	3	কেচ	4
wrist	10	4	কবজি	5
writer	73	4	লেখক	5

Azad

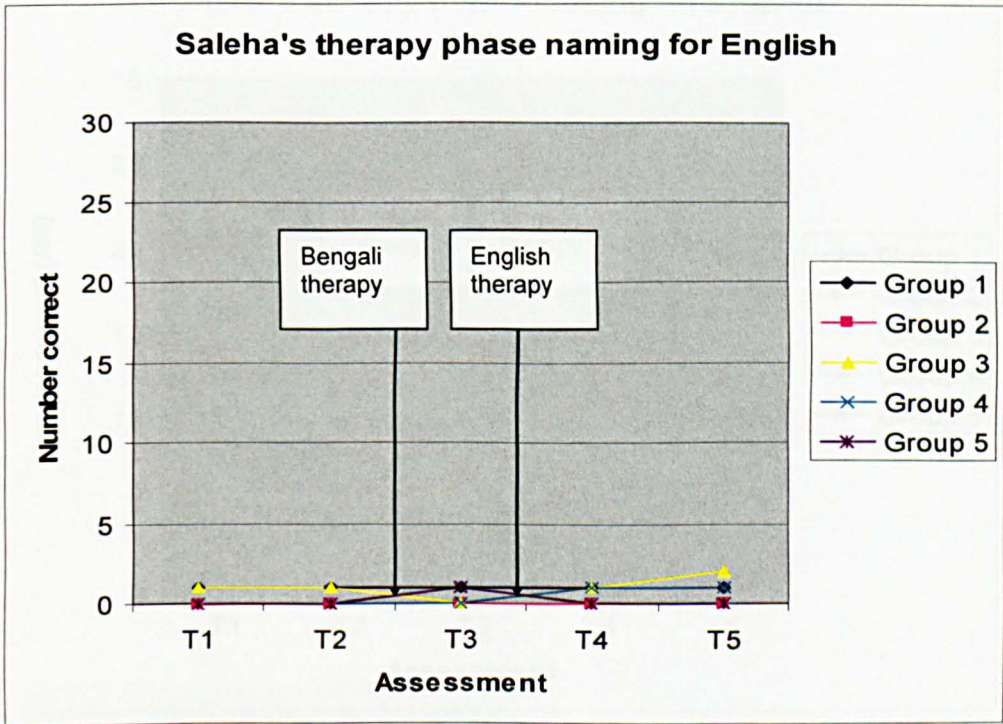
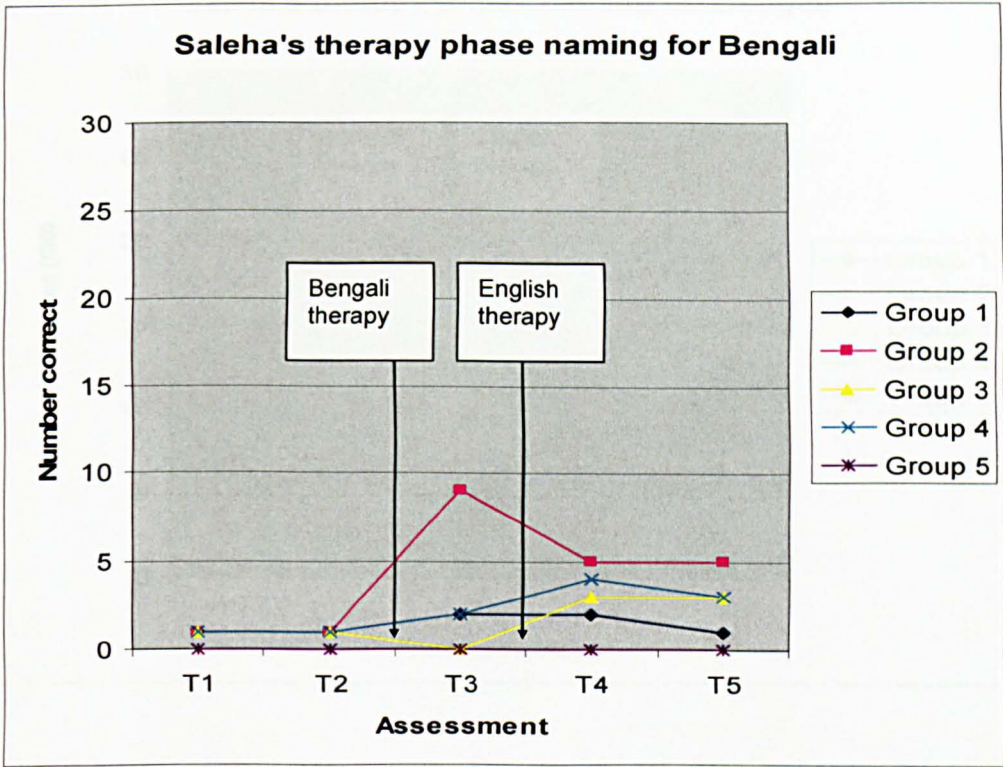
English Target	Word Frequency (written English) (Kučera & Francis, 1967)	No. of Phonemes	Bengali Target	No. of Phonemes
Group 1				
argument	63	8	তকরার	7
blackbird	0	7	কালাপাখী	8
bush	14	3	জঙ্গল	5
carpenter	6	7	কাঠরমিস্ত্রি	11
chicken	37	6	মুগি	5
cleaner	9	5	সাকুইওয়ালা	10
cupboard	2	5	আলমারি	6
date	103	3	খেজুর	5
deer	13	2	হরিণ	6
dentist	12	7	দাঁতরডাক্তার	11
dust	70	4	ধূলা	4
gold	52	4	সুনা	4
hedgehog	0	6	সজারু	6
island	167	5	দ্বীপ	5
launderer	0	7	ধুপা	4
milk	49	4	দুধ	3
oil	93	2	তেল	3
palm tree	0	6	তাল	3
pigeon	3	5	কবুতর	7
pumpkin	2	7	লাউ	3
root	30	3	শিকড়	4
squirrel	1	6	কাঠবেলা	8

stomach	37	6	পাকাশয়	9
turtle	8	4	কচ্ছপ	5
vet	1	3	চিকিৎসক	9
vulture	4	6	হকুল	5
whale	0	3	তিমি	4
whirlpool	1	6	জল	4
wool	10	3	পশম	5
writer	73	4	লেখক	5
Group 2				
artist	57	5	শিল্পী	5
aubergine	0	6	বেগুন	5
butterfly	2	7	প্রজাপতি	9
cabbage	4	5	কপি	4
cobbler	0	5	মুচি	4
coriander	1	8	ধনিয়া	6
cradle	7	5	দোলনা	5
crocodile	1	8	কুমির	5
cuff	1	3	হাতা	4
desert	21	5	মরুভূমি	8
earthquake	9	6	ভূমিকম্প	9
fist	26	4	মুষ্টি	4
garden	60	5	বাগান	5
glasses	0	6	চশমা	5
hippopotamus	0	11	হস্তী	5
lentils	0	7	দাল	3
market	155	5	বাজার	5
mirror	27	4	যনা	3
onion	15	5	পেঁয়াজ	5
pliers	1	5	সন্দংশ	7
rabbit	11	5	খরগোশ	5
rainbow	4	5	রামধনু	8
rock	75	3	পাতথর	6
scroll	0	5	গুটান	5
sieve	1	3	ছাঁকনি	5
snail	1	4	শামুক	5
spring	127	5	ঝরনা	5
tap	18	3	জলস্রব	8
thread	15	4	সূতা	4
tongue	35	3	জিহ্বা	4
Group 3				
barber	8	4	নাপিত	5
beaver	3	4	বীভার	5
beetle	0	4	পুক	3
blacksmith	2	8	কামার	5
blindman	47	5	অন্ধ	4

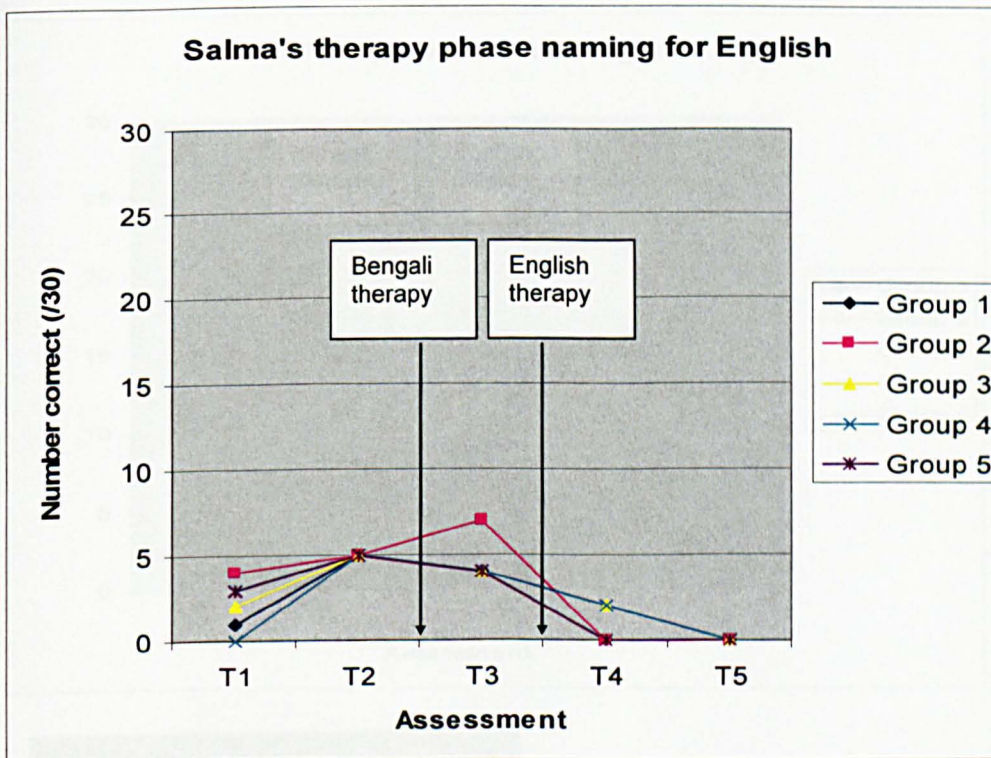
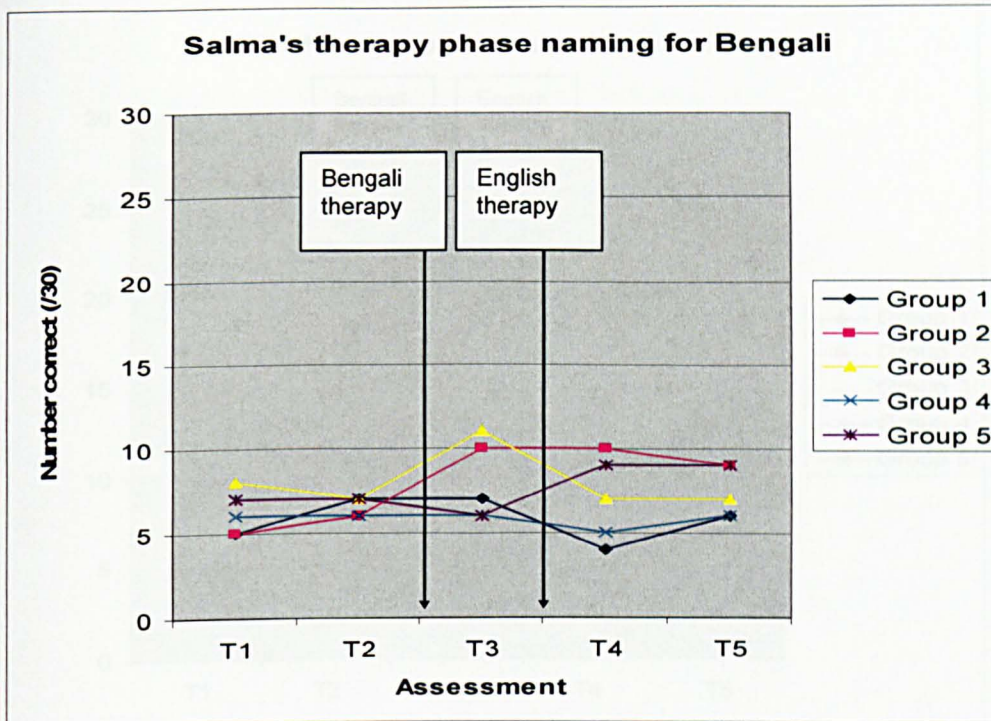
buffalo	16	6	মহিষ	5
builder	29	5	মিট্রি	7
bull	14	3	ষণ্ড	3
cook	47	3	বাবুটি	6
crab	0	4	কর্কট	5
cucumber	0	8	শশা	4
dragonfly	0	9	ফড়িং	5
drought	5	4	থরা	4
eel	2	2	বান	4
fisherman	5	7	জালজীবি	8
flood	19	4	বন্যা	4
garlic	4	5	রশুন	5
lightning	14	6	বিজলি	5
llama	0	4	লামা	4
melon	1	5	তরমুজ	6
monkey	9	5	বান্দর	6
parrot	1	5	কাকাডুয়া	8
printer	3	6	বার্ণিক	6
roofer	0	4	ছাঝিট্রি	11
scientist	17	8	বিজানী	7
sheep	23	3	ভেড়া	4
ship	83	3	জাহাজ	5
valley	73	4	উপত্যকা	8
volcano	2	7	আগ্নেয়গিরি	8
walrus	1	6	ঘোটক	5
Group 4				
air hostess	0	7	এয়ার হস্টেস	9
anteater	0	6	সিপডাখাউরা	11
antelope	7	7	হুডাল	5
bucket	7	5	বালতি	5
butcher	8	5	কসাই	4
cliff	11	4	ভুগু	4
crater	2	5	গাত	4
dustman	0	7	দার	3
fire	187	3	আগুন	4
hail	10	3	শিলাবৃষ্টি	10
journalist	10	8	সংবাদদাতা	10
knee	35	2	জালু	4
lake	54	3	সরসী	5
leopard	0	5	চিঁতা বাঘ	7
lizard	0	5	টিকটিকি	8
lobster	1	6	গলদা চিংড়	9
mechanic	5	7	গাড়িমিট্রি	11
meerkat	0	5	একরকম বিড়াল	12
mountain	33	6	পর্বত	4

optician	0	7	চক্ষুডাক্তার	10
painter	21	5	চিত্রকর	5
path	44	3	রাস্তা	5
pot	28	3	ইাড়ি	5
rhinoceros	3	9	গন্ডার	6
river	165	4	নদী	4
shark	0	3	হাঙর	5
shopkeeper	0	7	দুকানদার	8
shovel	5	4	বেলচা	5
tailor	2	4	দরজি	4
wave	46	3	ডেউ	3
Group 5				
baggage	4	5	লটবহর	9
blanket	30	7	কম্বল	6
blood	121	4	রক্ত	5
calf	11	3	গরুবাচ্চা	8
chickpea	0	5	চানা	4
coconut	7	7	নাইরকল	5
dream	64	4	স্বপ্ন	5
farmer	23	4	চাষা	4
fishmonger	0	8	মাছুয়াল	7
grain	27	4	শস্য	4
grapes	3	5	আঙুর	5
greengrocer	0	9	কাঁচামালের ব্যাপারী	14
heart	173	3	দিল	3
hob	1	3	চুলি	4
king	88	3	রাজা	4
knife	76	3	খুরি	4
midwife	1	6	খাই	4
night	411	3	রাত্রি	5
ostrich	0	6	উটপাখি	6
pestle	1	4	ঘুটানি	5
rain	70	3	বৃষ্টি	5
roof	59	3	ছাদ	3
sailor	5	4	নাবিক	5
snake	44	4	সাপ	3
soap	22	3	সাবান	5
staff	113	4	লাঠি	4
teacher	80	5	মাস্টার	7
toys	0	3	খেলনা	6
well	897	3	ইদারা	6
wrist	10	4	কবজি	5

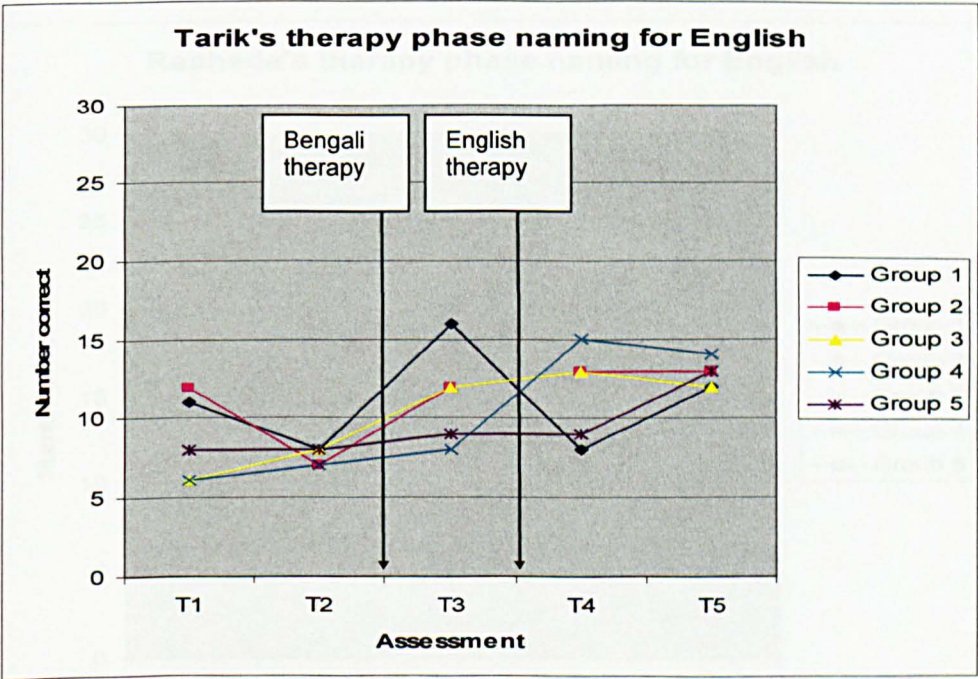
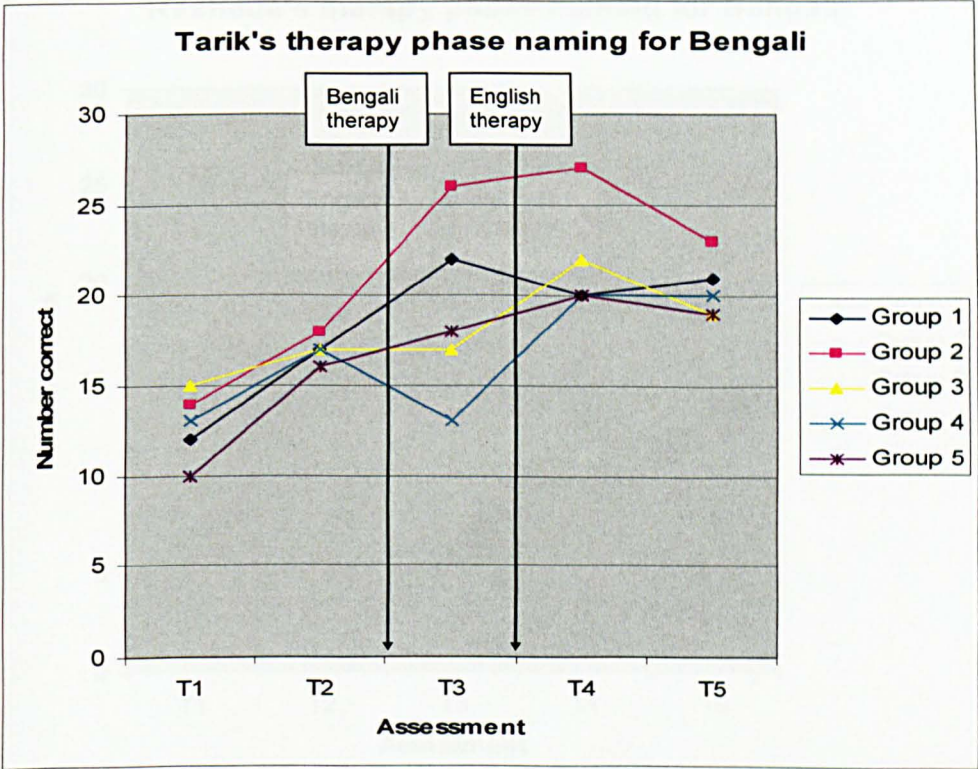
Saleha



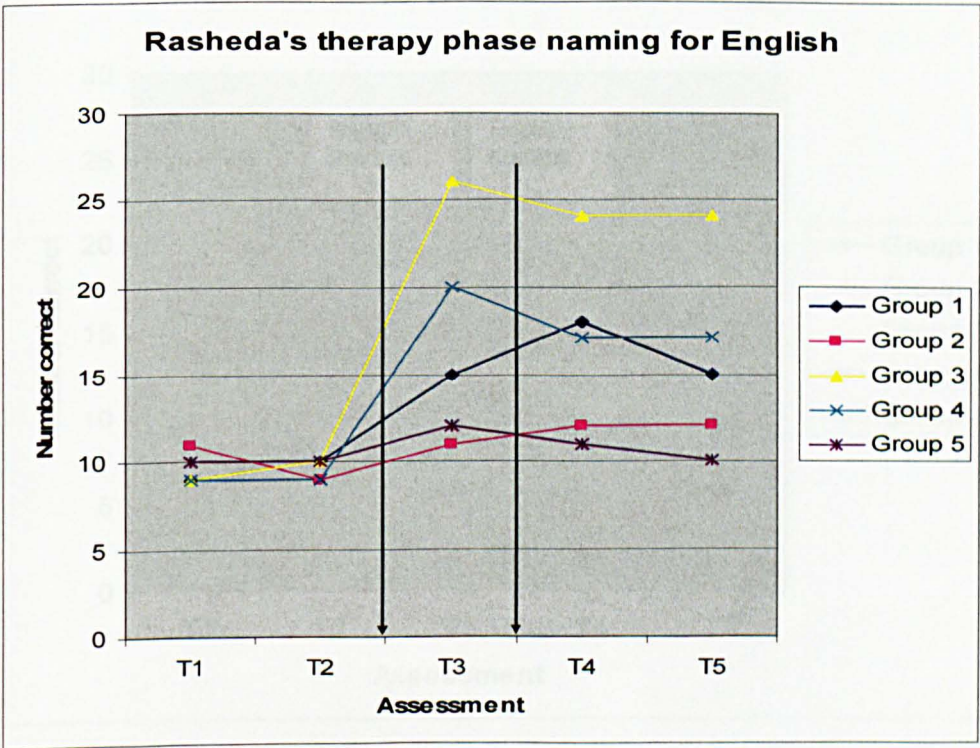
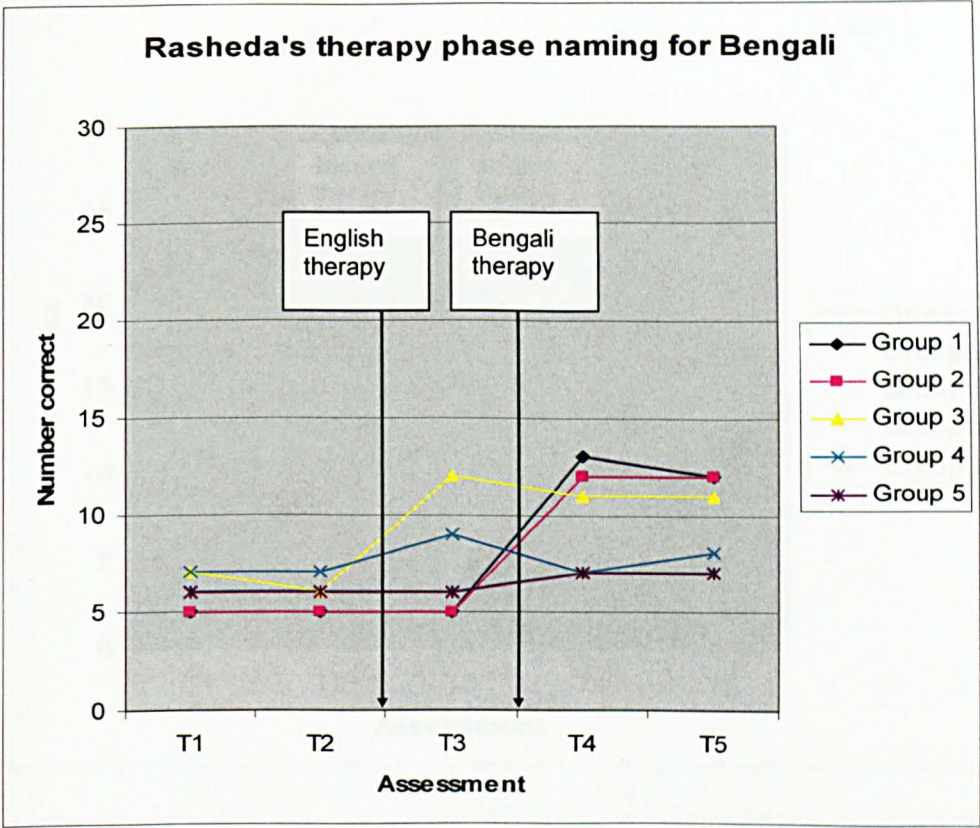
- Group 1 = Semantic therapy in Bengali
Group 2 = Phonological therapy in Bengali
Group 3 = Semantic therapy in English
Group 4 = Phonological therapy in English
Group 5 = Untreated control group



- Group 1 = Semantic therapy in Bengali
 Group 2 = Phonological therapy in Bengali
 Group 3 = Semantic therapy in English
 Group 4 = Phonological therapy in English
 Group 5 = Untreated control group



1. Group 1 = Semantic therapy in Bengali
Group 2 = Phonological therapy in Bengali
Group 3 = Semantic therapy in English
Group 4 = Phonological therapy in English
Group 5 = Untreated control group



1. Group 1 = Semantic therapy in Bengali
Group 2 = Phonological therapy in Bengali
Group 3 = Semantic therapy in English
Group 4 = Phonological therapy in English
Group 5 = Untreated control group

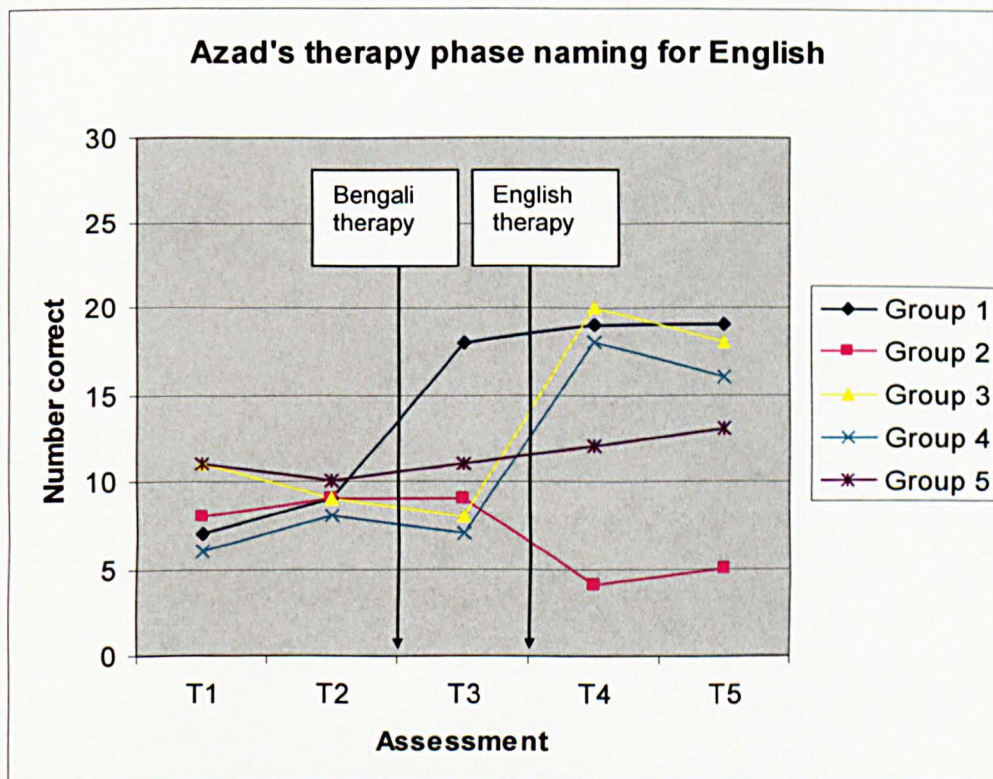
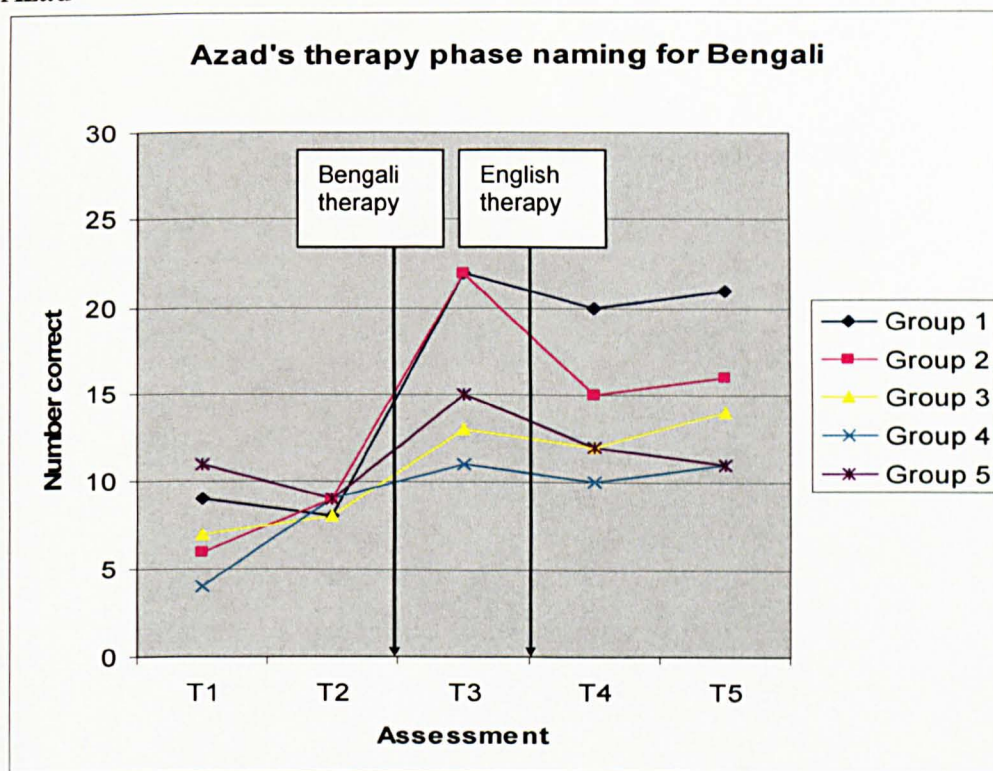


Figure 8.10: English naming assessments during therapy phase for Azad.

- Group 1 = Semantic therapy in Bengali
- Group 2 = Phonological therapy in Bengali
- Group 3 = Semantic therapy in English
- Group 4 = Phonological therapy in English
- Group 5 = Untreated control group

lips

ਨਾਟ

book

कई

window

आदि.

rain

हास

duck

~

बि

hammer

आर

car

জাননা

leaf

ঘোড়া

mother

चिन्मयि

mouse

ਸ਼ਾ

girl

মেয়ে

donkey

આધાર

face

ਸੁਖ

eye

পিঞ্জর

comb

চাকা

elephant

कंठि

parrot

वदूक

gun

अहि

scissors

কেচ

moon

গাজর

fox

ମାତ

baby

ਚੰਦਾ

tree

शिशाल

necklace

गुण

wheel

शति

shoe

इन्द्र

horse

ଭୂତ

thumb

वाफ

cage

চিয়া

worm

ଗଜମାଳା

carrot

बुद्धका अंगि

rose

ବିହାରୀ