APPENDICES	

APPENDIX I (i)

INFORMED CONSENT FORM

Authorization to participate in research project entitled: "Vitamin B12 and Omega-3 fatty acid Interventions for Cognition in Elderly- a V.O.I.C.E. trial".

Monitoring Elderly Cognitive Health:

Neurodegenerative diseases are widely increasing among the elderly. The cure lies in early diagnosis before dementia and Alzheimer's disease result in progressive cognitive decline. The present study is thus being conducted in my setting, as a part of the Doctoral study of Ms. Aditika Agarwal, Department of Foods and Nutrition, The Maharaja Sayajirao University of Baroda.

The information in this document is meant to help you decide whether or not to take part. Please feel free to ask if you have any queries or concerns. You are invited to take part in this research study because you satisfy our eligibility criteria which are as follow:

- (1) Diagnosis of brain health of elderly by neurological and psychological assessment using scales like ACE, MMSE, YFPIT and nutritional tool MNA.
- (2) Age between 60 to 85 years.
- (3) Should be ready to participate willingly and provide information.

Purpose of this research:

Mild Cognitive Impairment (MCI) is characterized by decrease in brain functioning. It is detected with the symptoms such as forgetfulness, confusion, etc. It mainly affects the older people.

Decrease in brain functioning is caused due to various factors which include deficiency of certain nutrients like vitamin B12 and omega-3 fatty acids as one of the contributing factors.

We have obtained permission from the Institutional Medical Ethics Committee (Department of Foods and Nutrition, Faculty of Family and Community Sciences. The Maharaja Sayajirao University of Baroda, Vadodara).

Possible benefits to other people

The results of the research may provide benefits to the society in terms of the advancement of medical knowledge and/or therapeutic benefit to future patients with mild cognitive impairment.

APPENDIX I (ii)

PATIENT CONSENT FORM

Title of the study: "Vitamin B12 and Omega-3 fatty acid Interventions for Cognition in Elderly- a V.O.I.C.E. trial". Name of the participant: Name of the guide: Dr. Komal Chauhan Name of the institution: Department of Foods and Nutrition, Faculty of Family and Community Sciences, The Maharaja Sayajirao University of Baroda. **Documentation of the informed consent** I, have read the information in this form. I was free to ask any questions and they have been answered. I am over 60 years of age and, exercising my free power of choice, hereby give my consent to be included as a participant in the "Vitamin B12 and Omega-3 fatty acid Interventions for Cognition in Elderly- a V.O.I.C.E. trial". (1) I have read and understood this consent form and the information provided to me. (2) I have had the consent document explained to me. (3) I have been explained about the nature of the study. (4) My rights and responsibilities have been explained to me by the investigator. (5) I have been advised about the risks associated with my participation in the study. (6) I agree to cooperate with the investigator and I will inform her immediately if I suffer unusual symptoms. (7) I have not participated in any research study within the past month (s). (8) I have not donated blood within the past months, and if this study requires any collection of blood sample then I would not object to give. (9) I don't have any objection to take the nutrient supplement of vitamin B12 in the form of injections as well as flaxseeds for omega-3 as a part of the intervention. (10) I am also aware that the investigators may terminate my participation in the study at any time, for any reason, without my consent. (11) I hereby give permission to the investigators to release the information obtained from me as result of participation in this study to the sponsors, regulatory authorities, government agencies and ethics committee. I understand that they may inspect my original records. (12) My identity will be kept confidential if my data are publicly presented. (13) I have had my questions answered to my satisfaction. (14)I have decided to be in the research study.

APPENDIX I (iii)

PATIENT CONSENT FORM

For adult participants:

	-	ression of the p	articipant (or legal representative if participant
incompetent		(Name)	(Signature)
Date:	Time:		(4.8
			red for illiterate patients): (Signature)
Date:	Time:	()	(Signature)
		_	SS:
			epresentative obtaining consent:
		(Name)	(Signature)
	_(Date)		
		Investigator	
I certify that	t all the elements i	ncluding the na	ature, purpose and possible risks of the above
study as des	cribed in this cons	ent document ha	ave been fully explained to the subject. In my
judgment, th	ne participant posse	sses the legal ca	apacity to give informed consent to participate
in this resear	rch and is voluntari	ly and knowingl	y giving informed consent to participate.
Signature of	the Investigator:		Dated:
Name of the	Investigator:		-
Contact per	rsons:		
For further	information /ques	tions, you can	contact us at the following address:
Guide and I	Investigator: Dr. k	Komal Chauhar	ı, Phone No. 9898790340
PhD Studen	ıt: Ms. Aditika Ag	arwal, Phone N	To. 7600889247
Department	of Foods and Nutr	ition, Faculty o	f Family and Community Sciences, The Maharaja
Sayajirao Ur	niversity of Baroda.		

APPENDIXII GUJARATI CONSENT FORM ભાગ લેનાર માટે માહિતી અને સંમતિ પત્રક

આ સંશોધન અભ્યાસમાં ભાગ લેવા માટે તમને આમંત્રણ છે. આ દસ્તાવેજમા આપેલી _{માહિતી} તમને ભાગ લેવો કે નહિ તે નકકી કરવામાં મદદરૂપ થશે. તમને કોઇ શંકા અધવા પ્રશ્નો _{હોય}તો સંકોચે પૂછશો.

મહારાજા સયાજીરાવ યુનિવર્સીટી ઓફ. બરોડાની ફેકલ્ટી ઓફ ફેમીલી એન્ડ કોમ્યુનીટી સાયન્સીસના ફુડ એન્ડ ન્યુટ્રીશન વિભાગ દ્વારા આયોજીત આ અભ્યાસ માટે તમને ભાગ લેવાનું કહેવામાં આવે છે કારણ કે તમે નીચેની લાયકાત સંતાપો છો.

- ૧. મીની મેન્ટલ સ્ટેટ એકઝામીનેશન દ્વારા માનસીક સ્વાસ્થયનું નિદાન.
- ર.ઉમર 50 થી ૮૫ વર્ષની વચ્ચે
- ૩. ઇચ્છાથી ભાગ લઇશ અને માહિતી આપીશ.

આ સંશોધનનો હેતુ :

માનસીક સ્વાસ્થય ઓછુ થવું, એ કોગનીટીવ ઇમ્પેરમેન્ટ નું મુખ્ય લક્ષણ છે. મુઝવણ, હતાશા, ભુલી જવો વગેરે આના સામાન્ય લક્ષણો છે. જે મુખ્યત્વે મોટી ઉમરના લોકોને લાગું પડે છે. માત્ર બે ટકા જેટલા લોકોને ૪૫ વર્ષ પહેલા આ શરૂ થાય છે.

ધણાં બધા તત્વો માનસીક સ્વાસ્થય ઘટાડવા માટે જવાબદાર છે. જેમાં પોષણ તત્વોની ઉલય મુખ્યત્વે વિટામીન –બી ૧૨ એ મહત્વનો ભાગ ભજવે છે.

અત્યારે આની સારવાર તરીકે વિટામીન –બી ૧૨ ની વધારાની પુરવણી સામેલ કરવામાં આવી છે.

બીજા લોકોને ફાયદાની શકયતા :

્ર આ સંશોધનના પરિણામોથી સમાજને ચિકિત્સા વિજ્ઞાનની પ્રગતિના લાભ મળી શકે અને / અથવા કોગનીટીવ ઇમ્પેરમેન્ટથી પિડીત વ્યકિતઓ ને વધુ સારી સારવાર મળી શકે.

સંમતિ પત્ર

_{અભ્યાસનું} શિર્ષક: "મોટી ઉંમરના બહેનોના કોગનીટીવ ઇમ્પેરમેન્ટના વિટામીન –બી ૧૨ ની _{અસર}: માનસીક સ્વાસ્થયને લગતી બીમારીઓને સંદર્ભમાં વડોદરાના શહેરી વિસ્તારના મોટી _{ઉંમરના લો}કોની જીવન ચર્યા, પોષણ ક્ષમ સ્થિતિ અને આહાર વલણ અંગેનો વલણ અને જુદા-જુદા _{રોગો} અંગેની સ્થિતી નું મુલ્યાંકન."

ભાગ લેનારનું નામ :

મુખ્ય સંશોધકનુ નામ : ર્ડા. કોમલ ચૌહાણ

સંસ્થાનું નામ : ફુડ એન્ડ ન્યુટ્રીશન વિભાગ, ફેકલ્ટી ઓફ ફેમીલી એન્ડ કોમ્યુનીટી સાયન્સીસ, મહારાજા સયાજીરાવ યુનિવર્સીટી ઓફ બરોડા, વડોદરા.

સહાયક (ફાળો આપનારી સંસ્થાઓ ના નામ અને સરનામા) :

માહિતગારની સંમતિની નોંધ

- મેં. _____ આ પત્રકમાં આપેલી માહિતી વાંચી છે. મને કોઇ પણ પ્રશ્ન પૂછવાની છૂટ હતી અને એના જવાબો મળ્યા છે. મારી ઉમર 50 વર્ષથી ઉપર છે અને પસંદગી કરવાની મારા મુદત અધિકારનો ઉપયોગ કરીને આ ઉપર બતાવેલા શિર્ષકવાળા અભ્યાસમાં ભાગ લેનાર તરીકે મને સામેલ કરવા માટે હું મારી સંમતિ આપું છું.
 - ૧. મેં આ સંમતિપત્ર અને મને પૂરી પાડવામાં આવેલી માહિતી વાંચી છે. અને સમજયો છું.
 - ર. સંમતિ દસ્તાવેજ વિષે સમજ આપવામાં આવી છે.
 - ૩. મને આ અભ્યાસનું સ્વરૂપ સમજાવવામાં આવ્યુ છે.
 - ૪. શોધકર્તા દ્વારા અને મારા હક્કો અને જવાબદારીઓ વિષે સમજાવવામાં આવ્યું છે.
 - પ.ં આ અભ્યાસમાં મારા ભાગ લેવા સાથે જોડાયેલા જોખમો વિશે મને સલાહ આપવામાં આવી છે.
- 5. હું મારા શોધકર્તા ને સહકાર આપવા કબુલ થાઉ છું અને મને કોઇ પ્રકારના અસ્વાભાવિક લક્ષણો જણાય તો તરત જ તેમણે જાણ કરીશ.
 - ૭. મેં છેલ્લા _____ મહિનાઓ દરમિયાન કોઇ સંશએઘન અભ્યાસમાં ભાગ લીઘો નથી.

	મહિનાઓ દરમિયાન રક્ત	દાન કરેલું નથી અને આ
્ર કે હેલ્લો ખાસ દરમિયા	ન લોહીના નમૂના લેવાની જરૂરીયાત ઊભી	ી થાય તો તે આપવા માટે હું
0.11 8	14 15 23 3 1 1 1 1 2 3 4 2 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	વર્ષે વીટામીન બી ૧૨ ની
_{40. શોધકર્તા} ગમ	ત્યારે, કોઇ પણ કારણ થી મારી સંમતિ હી ભાગીદારીનો અંત લાગી ઘરે છે ડે હાલા	વગર આ અભ્યાસમાં મારી
ભાગીદારાના મ	ારા માં માં અન્ય માં આવે સાચા શકે છે તે બાબત	. હું સભાન છ
_{૧૧, મા} રી ભાગાદા ૧૧, મારી	રી ના પરિલામ સ્વરૂપ મારી પાસેથી ક	મળેલી માહિતી નોધકર્તાઓ
પ્રોત્સાનકાન, ા	તૈયામક અધિકારીઓને, સરકારી વિભાગોને ! પુત્રુગી આપું છું મું સુરકારો સે ડેસ્ટ્રે	કે એથીકસ કમિટિને આપી શકે
ત માટ હુ પરવ	ાનગી આપું છું. હું સમજુ છું કે તેઓ મારા મ	નૂળભૂત દ સ્તાવેજો તપાસી શકે
છે. મારી આપેલી	વિગતોની જાહેરમાં પ્રસિદ્ધિ કરવામાં આવે	2 2 - 0 2
શ્ર. વાલ વા વા રાખવામાં આવ	ારો.	વ તા મારી ઓળખ ખાનગી
	ોના મને સંતોષકારક જવાબો મળ્યા છે.	
180	" " " to 110.	
૧૪. નેં આ સંશોધન	ા અભ્યાસમાં જોડાવવાન નક્કી કરી લીઇ ઢે	
	ત અભ્યાસમાં જોડાવવાનુ નકકી કરી લીધું છે.	
પુષ્ત વયના ભાગ લેન	તાર માટે	
પુષ્ત વયના ભાગ લેન		પ્રતિનિધિ) નુ નામ અને સહી <i> </i>
પુષ્ત વયના ભાગ લેન ભાગલેનાર (અથવા	તાર માટે	
પુષ્ત વયના ભાગ લેન્ માગલેનાર (અથવા ક સંયુઘનું નિશાન ————	ાર માટે ભાગલેનાર અસમર્થ હોય તો તેના અધિકૃત ! નામ	પ્રતિનિધિ) નુ નામ અને સહી / સહી
પુષ્ત વયના ભાગ લેન્ ભાગલેનાર (અથવા સંગુદ્ધનું નિશાન 	ાર માટે ભાગલેનાર અસમર્થ હોય તો તેના અધિકૃત ! નામ સમય	
પુષ્ત વયના ભાગ લેન્ બાગલેનાર (અથવા સંગુદ્ધનું નિશાન તારીખ	ાર માટે ભાગલેનાર અસમર્થ હોય તો તેના અધિકૃત ! નામ	
પુષ્ત વયના ભાગ લેન્ બાગલેનાર (અથવા સંગુદ્ધનું નિશાન તારીખ	ાર માટે ભાગલેનાર અસમર્થ હોય તો તેના અધિકૃત ! નામ સમય	સહી
પુષ્ત વયના ભાગ લેન્ ભાગલેનાર (અથવા સંગુદ્ધનું નિશાન તારીખ ભાગ લેનાર નિરક	ાર માટે ભાગલેનાર અસમર્થ હોય તો તેના અધિકૃત ! નામ સમય ાર હોય તો) તટસ્થ સાક્ષીનુમ નામ અને સહી નામ	સહી સહી
પુષ્ત વયના ભાગ લેન્ ભાગલેનાર (અથવા અંગુઇનું નિશાન તારીખ ભાગ લેનાર નિસ્ક્ષ તારીખ	ાર માટે ભાગલેનાર અસમર્થ હોય તો તેના અધિકૃત ! નામ સમય ાર હોય તો) તટસ્થ સાક્ષીનુમ નામ અને સહી નામ સમય	સહી સહી
પુષ્ત વયના ભાગ લેન્ ભાગલેનાર (અથવા સંયુદ્ધનું નિશાન તારીખ ભાગ લેનાર નિરક્ષ તારીખ	ાર માટે ભાગલેનાર અસમર્થ હોય તો તેના અધિકૃત ! નામ સમય ાર હોય તો) તટસ્થ સાક્ષીનુમ નામ અને સહી નામ સમય -તે સંપર્ક નંબર	સહી સહી સહી
પુષ્ત વયના ભાગ લેન્ ભાગલેનાર (અથવા સંગુદ્ધનું નિશાન તારીખ ભાગ લેનાર નિરક્ષ તારીખ સાંધી નું સરનામુ અ સંમતિ મેળવનાર શો	ાર માટે ભાગલેનાર અસમર્થ હોય તો તેના અધિકૃત ! નામ સમય ાર હોય તો) તટસ્થ સાક્ષીનુમ નામ અને સહી નામ સમય ને સંપર્ક નંબર સિકર્તા અથવા તેના પ્રતિનિધિનું નામ અને સહ	સહી સહી સહી
પુષ્ત વયના ભાગ લેન્ ભાગલેનાર (અથવા સંગુદ્ધનું નિશાન તારીખ ભાગ લેનાર નિરક્ષ તારીખ સાક્ષી નું સરનામુ અ સંમતિ મેળવનાર શો	ાર માટે ભાગલેનાર અસમર્થ હોય તો તેના અધિકૃત ! નામ સમય ાર હોય તો) તટસ્થ સાક્ષીનુમ નામ અને સહી નામ સમય -તે સંપર્ક નંબર	સહી સહી સહી સહી

શોધકર્તાનું પ્રમાણ પત્ર

હું પ્રમાણપત્ર આપું છું કે આ સંમતિ પત્ર માં વર્ણાવેલા આગળ જણાવેલ અભ્યાસને લગતી મુધી બાબતો, જેમ કે એનું બંધારણ, હેતુ અને સંભવિત જોખમો વિગેરે બધું જ વ્યક્તિને સંપૂર્ણ રીતે સમજાવવામાં આવેલું છે. મારી ધારણા મુજબ ભાગલેનાર વ્યક્તિ આ સંશોધનમાં ભાગલેવા માટે અધિકૃત ક્ષમતા ધરાવે છે. અને પોતે મરજીયાત પણે અને સમજદારીપૂર્વક ભાગ લેવા માટે સંમતિ આપે છે.

શોધકર્તા ની સહી :		તારીખ :	S.	
શોધકર્તા નું નામ :	A. ;		,	
સંપર્ક વ્યકિતઓ :				
વધુ માહિતી પ્રશ્નો માટે ન	ીચેના સરનામે સંપર્ક કરી શકો છો	*		
ર્ઘ. કોમલ ચૌહાણ	મો. નં. 9898790340			
		18 oc.		4

મો. નં. 7600889247

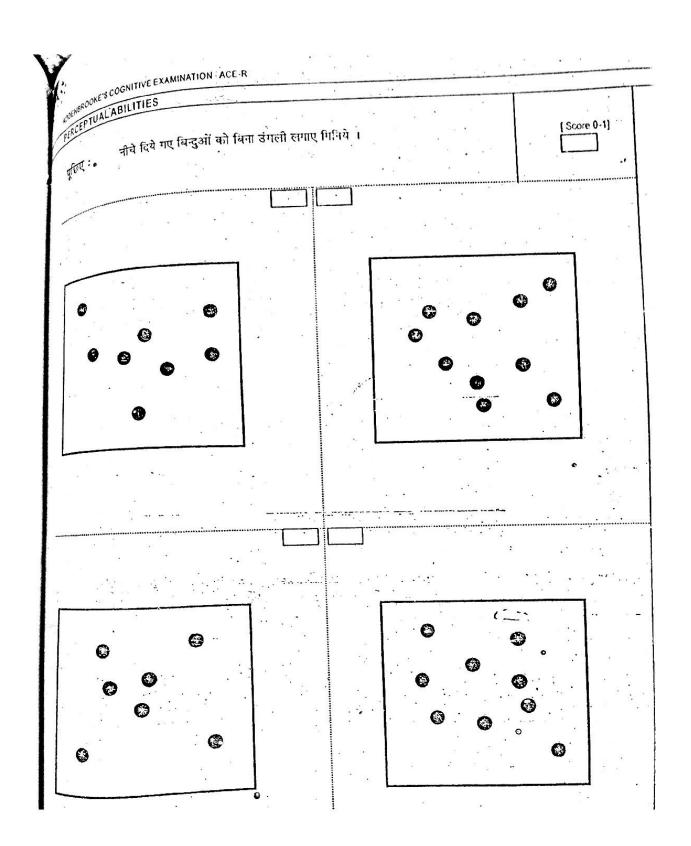
અદીતીકા અગ્રવાલ

	* ADDENBR	OOKETS COG	NITIVE EX.	AMINATION -	ACE-R	Plan Line	
100	W		3632	Years of education Occupation		me. With	
्राह्म के मोन सा	fair the	तारीख	महीता	साल	मौसम	[Score 0-5]	NO
पृक्षित में बीच सा	चीजल	द्वाखाना	शहर	प्रदेश	देश	[Score 0-5]	ENTAT
	Change in Trans Y.	आप द्वारा मुझे बताइ।	ए। नींबृ, चार्ब e coly live first trial	ो, गेंद After su (repeat 3 limes if necess	bject repeats, say	[Score 0-3]	& ORI
हिए : भी भ से 5 subtract Stop ofter	tions. If Subject make a	n the Subject responds, i inistike, carry on and c 86, 79, 72, 65)	back the subseque	ike away another 7 to a to nt answer (i.e. 93, 84, 77	7 70 63-Score 4 1	[Score 0-5] (For the best performed task)	ENTIC
uzkiz k ^{ere} lumu.	4		1 4				A
1 ,	The state of the s					1 Score 0-31	
087-Ante(ठेट्टीक्ट्र ए: अब मै आपको	ले जा तीन शब्द यात (e Mamoty क्रिकेट एक आदमी का ना	र रखने को चोले थे, व	1 Sin yam n	चे तमला।		[Score 0-3]	\ \ }
ए : इसरो पह ORY-Antologisad ए: अब मै आपको तीन बार बदाता शृक्षकार्वकार ए सिंह : सेंड :	ले जा तीन शब्द या o Mamoty प्राप्त एक आदमी का ना हूँ ताकी आप याद	रखने को बोले थे, वं म और पता बताता हूँ रख सके । थोडी देर	1 Sin yam n	झं बताइए। रंगा। डिडा ^ल Tra		[Score 0-3]	<u> </u>

	. •	
ENAMINATION: ACE-R		
AL FLUENCY- Letter 'P' and animals	[Score 0-7]	>
हिंदि के अपने एक अगर बताता हूँ। उस अक्षर से शुरू होनेवाले शब्द आप जितन वता सकत है, उतन वताइए। के क्षेप्रको एक अग्रर बताता हूँ। उस अक्षर है कि अक्षर है कि नाम और जगह के नाम नहीं होने चाहिए। आपको एक मिनट का वक्त देता हूँ। यो अक्षर है कि नाम और जगह के नाम और जगह के नाम नहीं होने चाहिए। आपको एक मिनट का वक्त देता हूँ। यो अक्षर है कि नाम और जगह के नाम और जगह के नाम नहीं होने चाहिए। आपको एक मिनट का वक्त देता हूँ। यो अक्षर है कि नाम और जगह के नाम नहीं होने चाहिए। आपको एक मिनट का वक्त देता हूँ। यो अक्षर है कि नाम और जगह के नाम नहीं होने चाहिए। आपको एक मिनट का वक्त देता हूँ। यो अक्षर है कि नाम नहीं होने चाहिए। आपको एक मिनट का वक्त देता हूँ। यो अक्षर है कि नाम नहीं होने चाहिए।	7 7 6	O
11.1 8-10 6-7 4-5 2-3 <2 101al	3 5	Z
		Ш.
शिवीं S बहुए : अब आप जितने जानवरों के नाम बता सकते हैं उतने बताइए । किसी भी अक्षर से शुरु हो सकता हैं । [S [37] [5] [5] [5] [5] [5] [5] [5] [5] [5] [5		D
11-7 9-11 7-6 5-6 <5 tota	3 3 2 1 0	<u>ا</u> ا
A35-Comprehension		
		Ш
'आँखे बन्द कीजिए '	C.,	S .
		A
हैं काज को अपने दाँए हाथ में लीजिए । कागज को आधा मोडिए । इसे जमीन पर रिवए । प्राथमिक	case 0-3)	ם
	core 0-1]	O
		Z
		∢
		٦

THE FLUORITHM ACE A	
New Franchist	
	1000
क्षेत्रक के उक्त कारण । जिल्ला १ : अस्त्र '; 'शताब्द '; जिल्ला १ ! २० । ।	[Score 0-2]
M. Langer 11 caused 3 15 ca sess	
M F. 18 37 702	[Score 0-1]
•	
म मिल्ला के उक्त कराइए । म जुला अने और नीचे '।	
अर्थ अर्थ आर्थ । स्वान्त्र के दुब्बर कहार । स्वान्त्र के दुब्बर कहार । अर्थ के बहुर्ग आर्थ होते तो हम् उन्हें देख पाते '।	[Score 0-1]
ह बार के दुबरा कारा । के बार्र आये होते तो हम् उन्हें देख पाते '।	
क विद्याद्वाद्वाद्वाद्वाद्वाद्वाद्वाद्वाद्वाद्व	
and a many	
क्षं दे नर बर्गाए	[Score 0-2]
	watch
A &	
	Ш
1	
	[Score 0-10] U
y w	
(i) (ii)	
I H	
8 83	
	- J
16-	
	z
	1. 1.
70	
7004 2	1 1
Sompretiension Something State of the State	
ै पि विको के का जा को को सरिया I	I Second (I
िए चित्रों के आधार घर इन बातों को पृष्ठिए । का बार्न चीत्र दिखाए।	[Score 0-4]
कर्त बार्निय का उद्युक्त है।	ht 2000 - John R. Hodges
	×

1/ WALACER	4	Andrews of the Party of the Par	
Control of the core of the cor	and the second of the second o	(Sum 61) *	
.cccon/13			
score 10 mg a an owned			
(score 10 by fall correct)			120
Score 10 पुत्र आ corect)	5.1	*	
			•
* Talu			
1 13			•
TI.			
प्राप्य इत्या पर्यो		2.1	
महाय		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
अस्ति देश	of the bear		
WITHES		(Soore 0-1)	
अर्थेष्ठ (Artagons) पृष्टिए: इन निज को हेखकर चनाइए ।		14	
पछिए: इन चित्र को देखकर बनाइए।		السالسا	
and bushing 5	The second secon		١.
	*		•
	9	2	
Χ , Ι	**	**	
	16	*	
X ')		IN.	
		g (5)	
7		r	
*		[Score 0-2] ·	C
्छिए: इन चित्र को देखकर बनाइए । [for scoring see instructions guide	1		
A STATE OF THE STA			٠ ر
		* =	
	* * * * * * * * * * * * * * * * * * * *		
		*	, C
	n.		
		ie i	
	*	y .	_
			V
	100		2
			_
W pfor	And the second s		
थ पृथिए: पाँच बजकर दस मिन्ट दिखाली हुई घडी बनाइए ।		[Score 0-5]	>
**************************************	*	· L_J.	(7
	F		
" and a contract that the same of the same			
	4		
		· .	
, i i	and the second		0.00
in the second se			
a marine a management of the second of the s		Copyright 2000 - John R. Horl	jes
	a seed of	au.	7



PER	NURROOKE S COGNITIVE EXAMINATION - 1 FFTUAL ABILITIES FFTUAL ABILITIES FFTUAL ABILITIES						8		A	
die	ANDROOME SCOOL TIES (FPTUAL ABILITIES) इन अक्षरों को पहचानिए।			<u></u>					_	
	and the second s	24	18		I B					
									-	
	PATE	*		dk					4	
,	A			15	. 128				۵	
-	1				4				S	
			i							
Same and the same and the same		1		٠.					0	
	TA TEN		V					51 .19	n	
				ء ر ع بـ			3.	- , 1	ွတ	
4				9	. 🔺				 	
•	2' 1	*		-			d .		>	
	•			343	\$ 6 0 B	15 m	3.50			
RECALL							-121	4.5	1744 S	1
पुछिए :	हमने जो आदमी का नाम अ	गैर पता पहले	। बताया था, 🛋	याद कर	के बताइए	1	3005 - 15		i	1
7									7	
						* ·	i. Is	core 0-7)	.>	ļ
 लकुमार सिंह		o ·	1		, s.:		Į	Score 0-7)	>-	
लकुमार सिंह १, स्टेशनरोड गाँधीनगर,		·					į	Score 0-7)	>	
लकुमार सिंह , स्टेशनरोड गाँधीनगर, इलाहाबाद				~ 5,32	App. And 1		2]	Scorie 0-7)	R	
नकुमार सिंह , स्टेशनरोड गाँधीनगर, इलाहाबाद cognition				- P ₁ (192	<u> </u>		[S	Score 0-7)	R	
लकुमार सिंह , स्टेशनरोड गाँधीनगर, इलाहाबाद ECOGNITION is lest should	to done if subject failed to recall or	ne or more item		ecalled ,s	kip the test a	nd score	Įs	Score 0-7)	0 R Y	
लकुमार सिंह १, स्टेशनरोड गाँधीनगर, इलाहाबाद ECOGNITION is lest should if only part is i	he done if subject failed to recall or recall or recalled start by ticking items recalled items by telling ਤਾਰ ਮੈਂ ਤਾ	ne or more item led in the shado गप को कछ ना	wed column on the ri म बताता हैं। उन्मे	ecalled sight hand	kip the test a side. ਪੜਲਾ ਕਰਾਪ					
inag मार सिंह १, स्टेशनरोड गाँधीनगर, इलाहाबाद RECOGNITION his test should If only part is I en Test not red d so on. Each	to done if subject failed to recall or recalled start by ticking items recall recalled items by telling अब मैं आ recognized item scores one point	ne or more item led in the shado ाप को कुछ ना which is added	wed column on the ri म बताता हूँ । उन्में to the point gained t	ecalled sight hand	kip the test a side. पहला बताय g		नाम पहर	यानियें		
लकुमार सिंह १, स्टेशनरोड गाँधीनगर, इलाहाबाद ECOGNITION is lest should if only part is i	he done if subject failed to recall or recall or recalled start by ticking items recalled items by telling ਤਾਰ ਮੈਂ ਤਾ	ne or more item led in the shado ाप को कुछ ना which is added	wed column on the ri म बताता हैं। उन्मे	ecalled sight hand	kip the test a side. पहला बताय g. recalled		नाम पहर		D	
लकुमार सिंह , स्टेशनरोड गाँधीनगर, इलाहावाद COGNITION Is lest should fonly part is i n Test not re so on . Sach	to done if subject failed to recall or recall or recalled start by ticking items recall excelled items by telling अब में आ recognized item scores one point सुनीतकुमार सिंह	ne or more item led in the shado ाप को कुछ ना which is added	wed column on the ri म बताता हूँ । उन्में to the point gained t राकेश यादव	ecalled sight hand	kip the test a side. पहला बताय g recalled		नाम पहर	यानियें	O	
कुमार सिंह स्टेशनरोड गाँधीनगर, इलाहावाद COGNITION s lest should only part is i n Test not re so on Each	to done if subject failed to recall or recalled start by ticking items recall recalled items by telling अब में आ recognized item scores one point सुनीलकुमार सिंह 52 शास्त्री मार्ग	ne or more item led in the shador Iप को कुछ ना which is added	wed column on the ri म बताता हूँ । उन्मे to the point gained t राकेश यादव टेशन रोड	ecalled sight hand	kip the test a side. पहला बताय g. recalled recalled		नाम पहर	यानियें	D	
नकुमार सिंह , स्टेशनरोड गाँधीनगर, इलाहाचाद COGNITION s lest should only part is i n. Test not re so on. Each र शमा	to done if subject failed to recall or recalled start by ticking items recall coalled items by telling अब मैं आ recognized item scores one point सुनीलकुमार सिंह 52 शास्त्री मार्ग गाँधीनगर	ne or more item led in the shador Iप को कुछ ना which is added	wed column on the ri म बताता हूँ । उन्मे to the point gained t राकेश यादव टेशन रोड टेशन रोड	ecalled sight hand	kip the test a side. पहला बताय g recalled recalled recalled		नाम पहर	यानियें	O	
स्वेशनरोड स्टेशनरोड गाँधीनगर, इलाहाबाद COGNITION lest should only part is i n Test not re so on. Each	to done if subject failed to recall or recalled start by ticking items recall recalled items by telling अब में आ recognized item scores one point सुनीलकुमार सिंह 52 शास्त्री मार्ग	ne or more item led in the shador Iप को कुछ ना which is added	wed column on the ri म बताता हूँ । उन्मे to the point gained t राकेश यादव टेशन रोड	ecalled sight hand	kip the test a side. पहला बताय g. recalled recalled		नाम पहर	ग्रानियें Score 0-5]	E M O	
तकुमार सिंह , स्टेशनरोड गाँधीनगर, इलाहाबाद COGNITION s lest should only part is i n Test not re so on. Sach t शर्मा	to done if subject failed to recall or recalled start by ticking items recall coalled items by telling अब मैं आ recognized item scores one point सुनीलकुमार सिंह 52 शास्त्री मार्ग गाँधीनगर	ne or more item led in the shador Iप को कुछ ना which is added	wed column on the ri म बताता हूँ । उन्मे to the point gained t राकेश यादव टेशन रोड टेशन रोड	ecalled sight hand	kip the test a side. पहला बताय g recalled recalled recalled recalled		ताम पहर [प्रानियें Score 0-5	O	
तकुमार सिंह स्टेशनरोड गाँधीनगर, इलाहाबाद COGNITION s lest should only part is i n Test not re so on. Each	to done if subject failed to recall or recalled start by ticking items recall coalled items by telling अब मैं आ recognized item scores one point सुनीलकुमार सिंह 52 शास्त्री मार्ग गाँधीनगर	ne or more item led in the shador Iप को कुछ ना which is added	wed column on the ri म बताता हूँ । उन्मे to the point gained t राकेश यादव टेशन रोड टेशन रोड	ecalled sight hand	kip the test a side. YECH GRID GRID GRID GRID GRID GRID GRID GRID	₹ ₹ ₩	ताम पहर [मियें Score 0-51	E M O	
नकुमार सिंह , स्टेशनरोड गाँधीनगर, इलाहाबाद GCOGNITION s test should only part is i n Test not re so on Sach र शर्मा	to done if subject failed to recall or recalled start by ticking items recalled at a subject failed items by telling अब मैं आ recognized item scores one point सुनीलकुमार सिंह 52 शास्त्री मार्ग गाँधीनगर	ne or more item led in the shador Iप को कुछ ना which is added	wed column on the ri म बताता हूँ । उन्मे to the point gained t राकेश यादव टेशन रोड टेशन रोड	ecalled sight hand	kip the test a side. YECH GRID GRID GRID GRID GRID GRID GRID GRID	हुआ -	ताम पहर [प्रानियें Score 0-51	M E M O	
स्वेशनरोड स्टेशनरोड गाँधीनगर, इलाहाबाद COGNITION lest should only part is i n Test not re so on. Each	to done if subject failed to recall or recalled start by ticking items recalled a start by ticking items recalled items by telling अब मैं आ recognized item scores one point सुनीलकुमार सिंह	ne or more item led in the shador Iप को कुछ ना which is added	wed column on the ri म बताता हूँ । उन्मे to the point gained t राकेश यादव टेशन रोड टेशन रोड	ecalled ,s ight hand से मेरा by recallin	kip the test a side. YECH GRID GRID GRID GRID GRID GRID GRID GRID	E-R	ताम पहर [यानियें Score 0-5] /30	M E M O	
स्वेशनरोड स्टेशनरोड गाँधीनगर, इलाहाबाद COGNITION lest should only part is i n Test not re so on. Each	to done if subject failed to recall or recalled start by ticking items recalled a start by ticking items recalled items by telling अब मैं आ recognized item scores one point सुनीलकुमार सिंह	ne or more item led in the shador Iप को कुछ ना which is added	wed column on the ri म बताता हूँ । उन्मे to the point gained t राकेश यादव टेशन रोड टेशन रोड	ecalled ,s ight hand से मेरा by recallin	kip the test a side. YECH ACID ACID ACID ACID ACID ACID ACID ACID	E-R	ताम पहर [यानियें Score 0-5 /30 /100	E M E M O	
लकुमार सिंह , स्टेशनरोड गाँधीनगर, इलाहाबाद ECOGNITION is lest should f only part is i in Test not re so on. Each र शामी	to done if subject failed to recall or recalled start by ticking items recalled a start by ticking items recalled items by telling अब मैं आ recognized item scores one point सुनीलकुमार सिंह	ne or more item led in the shador Iप को कुछ ना which is added	wed column on the ri म बताता हूँ । उन्मे to the point gained t राकेश यादव टेशन रोड टेशन रोड	ecalled ,s ight hand से मेरा by recallin	kip the test a side. YECH GOILE ACT	MSE E-R	ताम पहर [प्रानियें Score 0-51 /30 /100	M E M O	
लकुमार सिंह त, स्टेशनरोड गाँधीनगर, इलाहाबाद ECOGNITION is test should fonly part is i	to done if subject failed to recall or recalled start by ticking items recalled a start by ticking items recalled items by telling अब मैं आ recognized item scores one point सुनीलकुमार सिंह	ne or more item led in the shador Iप को कुछ ना which is added	wed column on the ri म बताता हूँ । उन्मे to the point gained t राकेश यादव टेशन रोड टेशन रोड	ecalled ,s ight hand से मेरा by recallin	kip the test a side. पहला बताय g. recalled recalled recalled recalled AC	MSE E-R	ताम पहर [ग्रानियें Score 0-5] /30 /100	RE M E M O	

APPENDIX IV (ii)

MINI NUTRITIONAL ASSESSMENT (MNA)

	MNA	®	Nestle Nutrit	é ionInst	itute
Last name:			First name:		
Sex	Age:	Weight, kg:	Height, om:	Date:	
omplete the scr	een by filling in the I	boxes with the appropriate	e numbers. Total the num	pers for the final so	reening score
Screening					
swallowing 0 = severe d 1 = moderati	take declined over difficulties? ecrease in food intal e decrease in food in ase in food intake	ike	to loss of appetite, dige	stive problems, ch	newing or
0 = weight to 1 = does not	iss between 1 and 3				
C Mobility 0 = bed or d 1 = able to g 2 = goes out	et out of bed / chair	but does not go out			
D Has suffere D = yes	d psychological st 2 = no	tress or acute disease in	the past 3 months?		
0 = severe d 1 = mild den	nological problems lementa or depress nenta nological problems				0
0 = BMI less 1 = BMI 191	than 10 o less than 21 o less than 23	nt in kg) / (height in m²)			_
			QUESTION F1 WITH QUESTION F1 IS ALREADY		
0 = CC less 3 = CC 31 or	ference (CC) in om than 31 r greater	i			
Screening s max. 14 poi					00
12-14 points 8-11 points: 0-7 points:	At ri	mal nutritional status sk of malnutrition nourished			
Ruberstein Numborar A	LZ, Harker JO, Salva A. Ispessment (MNA-SF), J	Guigoz Y, Vellas B. Screening J. Geront 2001;66A; M366-377.	tory and Challenges. J Nut Her for Undersubition in Geriable R Jerasure - What does it self us?	octics: Developing the	Short-Form (illn)
® Societe o	es Produits Nestle, S.A.	, Vevey, Switzerland, Tradema:	rk Owners		

APPENDIX V

QUESTIONNAIRE

A. SOCIO-ECONOMIC SURVEY ID No: ____ Date: 1) Name: 2) Address: ___ Phone No: 3) Date of Birth: _____ 4) Age (in years): _____ 5) Marital status: 1) Unmarried 2) Married 3) Widow/Widower 4) Separated 6) Education Level: 1) Post graduation 2.) Graduation 3) High Secondary School 4) Secondary school 5) Primary School 6) Illiterate 7) Occupation: 1) Service 2) Self Employed 3) Housewife 4) Retired 8) Religion: 1) Hindu 2) Muslim 3) Christian 4) Jain 5) Other 9) Type of family: 1) Nuclear 2) Joint 3) Extended 4) Single living 10) No. of family members: 11) Total family income (Rs.per month): _____ 1) < 10,000 2) 10001-30000 3) 30001-60000 4) 60001-100000 5)> 100000 12) Per capita income: 13) Care taker of the subject: 1) Family member 2) Spouse 3) Self 4) Institution/trust 5) Any other

B. <u>LIFE STYLE PATTERN</u>

14) ACTIVITIES OF DAILY LIVING

Activities	Time spent in hours
1.Daily routine	
2.Religious	
3.Sleep	
4.Exercise	
5.Walk	
6.Occupational activity	
7.Idle	

15) ADDICTION PATTERN

Addiction	Yes	No	Age of initiation (in years)
1.Cigarette/Bidi			
2.Alcohol			
3.Tobacco/Gutkha			
	C. ANTHRO	POMETRIC MEASUR	EMENTS
1) Weight:kgs	s 3) V	VC:cms.	
2) Height: cm	s 4) H	C:cms.	
	D. BIO	-PHYSICAL PARAME	TER
1) Blood pressure	mmHg		
	E. <u>BIO-</u> C	CHEMICAL PARAME	<u>TERS</u>
1) Blood glucose	mg/dl 3)Seru	m vitamin B12p	g/ml
2)Hemoglobin	g/dl 4)Serur	n lipid profilem	ng/dl
	F. <u>DIETA</u>	RY SURVEY	
16) Are you vegetarian/non-	-vegetarian/eggetar	ian?	
17) How much of water do y3) > 8 glasses18) A. Do you observe fast?	•	1) < 5 glasses 2) 6-8 glas	sses
B. If yes, how often? 1)1/wk	2)Twice a week	3)Occasionally	
19) No. of meals per day:			

20) Food Frequency Questionnaire of Selected Sources

FOOD ITEMS	Daily	2-3 times/wk	4-5 times /wk	Once a week	Occasionally	Never
Vitamin B-12 rich						
1.Skim Milk Powder						
2.Milk						
3.Curd						
4.Egg ,whole						
5.Egg ,yolk						
6.Shrimp						
7.Liver, goat						
8.Mutton						
Omega-3 Rich						•

9.Butter			
10.Cheese			
11.Soybean oil			
12.Canola oil			
13.Walnuts			
14.Soya bean			
15.Flaxseed			
16.Fenugreek Seed			
17.Mustard			

21) 24-HOUR DIETARY RECALL METHOD

Meal pattern	Items	Ingredients	Raw quantity (g/ml)	Total cooked quantity (g/ml)	Consumption by the subject

22) Are	you allergic to	some food	?		

23) A. Ar	e you taki	ng any l	kind of sup	plements	s? 1) Yes	2) No			
·	es, give do		nsumption	_ 11) Yes	2) No				
В.	If y	es,	specify	what	you	have i	increased	l/decreased/total	lly omitted.
25) Have	you exper	ienced a	any change	es in your	perception	on of taste? Sp	ecify.		
	Percepti	ion of ta	iste		Yes	No	Since	when	
	1. Sweet								
	2. Salty								
	3. Sour								
	4. Bitter								
	5. Punge	nt							
				Е.	MORBII	<u>DITY PROFII</u>	<u>_E</u>		
26) A. Ar	e you taki	ng any p	prescriptio	n drugs p	oer day? 1) Yes 2) No			
B. Na	me the dr	ug							
27) ILLN	ESSES (C	hecklist	at the tim	e of inter	view)				
Major I	llnesses	1) N	diseas	(Name the single (Name	nce	Aajor Illnesses	s 1)N	2) Y (Name disease and when)	
Central system	Nervous				C	Cardiovascular			
Speech pro	blem				G	Genito –urinary			

Major Illnesses	1) N	2) Y (Name the disease and since	Major Illnesses	1)N	2) Y (Name the disease and since
		when)			when)
Central Nervous system		,	Cardiovascular		
Speech problem			Genito –urinary		
Memory loss			Hepato-biliary tract		
Mood/ behavior change			Respiratory Tract		
Convulsive attacks			Oral Cavity		
Difficulty in performing familiar tasks			Gastrointestinal Tract		
Double vision			Endocrinal		
Minor(Ref. period 15 days)	1)N	2) Y			

HEALTH STATUS

28) MINI MENTAL STATUS EXAMINATION (MMSE)

A.ORIENTATION (Score 1 if correct)	(10)
1. Name this society/building?	
2. Name the city you are in now?	
3. What year is this?	
4. What month is this?	
5. What is the date today?	
6. Name the state you are in now?	
7. Name the country you are in now?	
8. Which floor of the building are you on?	
9. What day of the week is it?	
10. Which season of the year is it?	
B.REGISTRATION	(3)
C. ATTENTION AND CALCULATION 1. Subtract 7 from 100 in serial fashion to 65 (Max. score 5)	(5)
D. RECALL	(3)
2. Do you recall the 3 objects named before?	
E. LANGUAGE TEST	(9)
1 Confrontation naming: Watch non	. ,
1. Confrontation naming: Watch, pen 2. Repetition: "No Ifs, Ands or Buts"	
3. Comprehension: Pick up the paper in your right hand, fold it	
floor	3
4.Read and perform the command: "Close your eyes"	
5.Write any sentence (subject, object, verb)	1
6.CONSTRUCTION	
<u> </u>	J
Copy the design below	1

Total MMSE questionnaire score (Max=30)			
29) VEPIT score: 1 Fox	2 Pigeon		

APPENDIX VI

STANDARD RECIPES OF FOOD PRODUCTS

The standard recipes of the food products (*Khicdi*, *porridge*, *globs* and *mukhwaas*) for formulation and acceptability trials at varying substitution levels of roasted flaxseeds are as follows:

I. Khichdi

Ingredients	Amount (g)	Volume
Green gram dal (split)	20	1
Rice	20	1/2 cup
Water	200 ml	1 cup
Turmeric	2	-
Groundnut oil	5 ml	1 tsp

Preparation Method:

- ▲ Heat oil in pressure cooker. Then add green gram dal and rice previously soaked for about 30 minutes.
- ▲ Stir for a minute pour water and add turmeric. Pressure cook on high flame till 6 whistles.
- ▲ Keep on sim or low flame to simmer the khichdi till the right consistency.

Roasted flaxseeds were substituted at 10g (10g flaxseeds + 20g green gram + 20g rice+5 ml oil), 15 g (15g flaxseeds + 20g green gram + 20g rice+5 ml oil) and 20g (20g flaxseeds + 20g green gram + 20g rice+5 ml oil) levels in *khichdi*.

II. Porridge

Ingredients	Amount (g)	Volume
Gruel wheat	30	2 tbsp
Water	150 ml	1 cup
Sugar	5	1 tsp
Milk	125 ml	1/2 cup

Preparation Method:

- Add gruel wheat in a saucepan and roast it on medium low heat for 4 to 5 minutes till it becomes light brown giving off a roasted aroma.
- Add water and mix with roasted gruel wheat. Partially cover the pan because once gruel wheat starts boiling, the froth starts coming out of the saucepan. Let the gruel cook for 10-12 minutes until tender and water gets absorbed.
- Add milk and mix and let it cook uncovered until it reaches to desired consistency.
- Add sugar and simmer for few minutes, then turn the stove off.

Roasted flaxseeds were substituted at 10g (10g flaxseeds + 125 ml milk + 30g gruel wheat + 5 g sugar), 15 g (15g flaxseeds +125 ml milk + 30g gruel wheat + 5 g sugar) and 20g (20g flaxseeds + 125 ml milk + 30g gruel wheat + 5 g sugar) levels in *porridge*.

III. Globs

Ingredients	Amount (g)	Volume
Flaxseeds	20	4 tsp
Water	5ml	1tsp
Jaggery	15	1tsp

Preparation Method:

- ▲ The flaxseeds are roasted on medium flame for up to 7 minutes and ground coarsely.
- The jaggery is then melted in a pan with 5 ml of water and ground flaxseeds are added.
- The mixture is stirred uniformly for about 2 minutes.
- ▲ Knead the globs until it holds into a ball of mass. Keep kneading until lemon sized balls are rolled out while they were warm for instant binding.

Roasted flaxseeds were substituted at 10g (10 g of flaxseeds with 15 g jaggery), 15 g (15 g flaxseeds with 15 g jaggery) and 20g (20 with <math>15 g jaggery) levels in globs

IV. Mukhwaas

Ingredients	Amount (g)	Volume
Flaxseeds	20	4 tsp

Preparation Method:

- ▲ Dry roast the flaxseeds in a broad pan for 2 to 3 minutes till it starts giving a good aroma.
- ▲ Cool completely and store in an airtight container.

Roasted flaxseeds were substituted only at 20g (20 g of flaxseeds) level in *mukhwaas* after *being* the preferred substitution amount affirmed from the acceptability trials by the semi-trained and untrained panelists

APPENDIX VII (i)

THRESHOLD TEST

Sensitivity- Threshold Test					
Name:	_				
Date:	_				
You are provided with a series of containers having solutions with increasing concentration of one of the taste qualities (sweet, salty). Please start with the Sr. No. 1 and continue with the rest. The samples are not allowed to be retested. Please describe the taste or give intensity scores using the scoring pattern shown separately here below.					
Intensity Score					
Set No. De	scription of taste and feeling factors				
A	-				
В	_				
\mathbf{C}	-				
D	-				
E	-				
F	<u>-</u>				
Scale:					
While awarding the intensity scores, take	the following basis into account;				
0 - None or taste of pure water					
? – Different from water but taste quality	not identifiable				
x- Threshold very weak (Taste identifiable	e)				
1- Weak taste					
2- Medium					
3- Strong					
4- Very strong					
5- Extremely strong					

Signature of the Judge

APPENDIX VII (ii)

THRESHOLD TEST

(ii) Procedure for preparation of solution required for threshold test

Solution	Molarity	Salty	Sweet	Molarity	Sour	Bitter
No.		(Stock solution 5.845 g of sodium chloride/L)	(Stock solution 34.23 g of sucrose/L)	1.10	(Stock solution 21.015 g of citric acid/L)	(Stock solution 19.41 g of caffeine/L)
		ml of stock solution to be diluted to 1 L	ml of stock solution to be diluted to 1 L		ml of stock solution to be diluted to 1 L	ml of stock solution to be diluted to 1 L
1	0.0002	2	2	0.0005	0.5	0.5
2	0.0004	4	4	0.0001	1	1
3-	0.0008/	8	8	0.0002	2	2
4	0.0016	16	16	0.0004	4	4
5/	0.0032'	32	32	0.0006	6	6
6	0.0064	64	64	0.0008	8	8
7-	0.0128	128	128	0.0010	10	10
8	0.0256	256	256	0.0012	12	12
9′	0.0512	2.994 g/L	17.526 g/L	0.0014	14	14
10	0.1024	5.988 g/L	35.052 g/L	0.0016	16	16

Source: Jellinek, G. J Nutr Diet. 1964; 1:219.

APPENDIX VI (i)

HEDONIC SCALE

Name:		Date:			
Product: Flaxseed	Mukhwaas		Time:		
You are presented	with the sample of	of Flaxseed Mukhwaas	. Test this	sample and	d check (v

You are presented with the sample of Flaxseed Mukhwaas. Test this sample and check ($\sqrt{}$) appropriate box how much you like or dislike. Use this appropriate scale to show your attitude by checking at the point that best describes your feeling about the sample. Please give your reason for this attitude.

Sr. No.	Points	Mukhwaas
1.	Like extremely	
2.	Like very much	
3.	Like moderately	
4.	Like slightly	
5.	Neither like nor dislike	
6.	Dislike slightly	
7.	Dislike moderately	
8.	Dislike very much	
9.	Dislike extremely	

Comments / suggestion:	
	Signature

APPENDIX VI (ii)

COMPOSITE SCORE CARD

Name:		Date:			
Product: Fla	exseed Mukhwaas	Time:			
of following	ented with the sample of Flax attributes. Use this scoring to ar feeling about the sample. Pl	show your attitude	e by checking at the p	•	
	Attribute	Total Marks	Sample Score		
	Taste	20			
	Appearance	10			
	Odour	10			
	Texture	15			
	Absence of defects	10			
	Suitability of serving (10 gms)	15			
	Over all acceptability	20			
	TOTAL	100			

Comments / suggestions:

Signature



Ref. No.: UHC/

University Health Centre

The Maharaja Sayajirao University of Baroda

Opp. Rosary High School, Pratapgunj. Vaododara 390 002, Gujarat. India. Tel.: (+91 0265) 2791616

Dated: 27/1/15

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Ms. Aditika Agarwal, Research Scholar, Department of Foods and Nutrition, The M.S. University of Baroda has been monitoring the patients for blood pressure determination using the manual sphygmomanometer since January, 2011 for her research work. To the best of my knowledge, she is well acquainted with the instrument and can measure by the pulse tone method also for confirmed diagnosis for blood pressure.

I am glad to approve her and wish her all the best for her endeavours.

UC. MEDICAL OFFICER
UNIV. HEALTH CENTRE

DEPARTMENT OF FOODS AND NUTRITION FACULTY OF FAMILY AND COMMUNITY SCIENCES MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA VADODARA 390 002 - INDIA



To,

Date: 19/10/12

Dr. Vipil Bhassur, Manjalpur, vadodara

Sub: Permission of data survey in your hospital.

Dear Sir/ Madam,

This is to certify that Ms. Aditika Agarwal is a PhD. Scholar working under my supervision in the Dept. of Foods and Nutrition, Faculty of Family and Community Sciences, The M.S. University of Baroda. The topic of her research is "Intervention studies with vitamin B12 and omega-3 fatty acids for assessing nutrition and cognition levels in elderly with Mild Cognitive Impairment (MCI)". The study has been approved by the Departmental Ethical Committee No. FCSc/FND/ME/101.

She would like to carry out her data survey followed by intervention by giving flaxseed supplementation on the elderly aged 60 -80 years. Kindly give her the permission for data collection in the OPD of your hospital.

Dr. SHIKHA BHAVSAR

Reg. No.-G-8564

RUSHABII CLINIC & NUBSING HOME 20s, Prime Con. d . Nr. S. tabang Ground,

Dr. VIPUL BHAVSAR

Reg. No -G-8557 (M.D.)

Thanking You,

Yours Sincerely,

Dr. Komal Chauhan Associate Professor,

Dept. of Foods and Nutrition.

Prof. & Head Dept. of Foods & Nutrition

xxxi

DEPARTMENT OF FOODS AND NUTRITION FACULTY OF FAMILY AND COMMUNITY SCIENCES THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA VADODARA 390 002 - INDIA



Phone:

Tele.

0265-2795526

0265-2795522 [Ext.33]

Grams: "HOMSCIENCE"

No. F. C. Sc./ FND /

To. Or Kiran Shinglot, Officiating M.O.,

University fleatter Centre, Vadodasa

Sub: Permission regarding data-survey in your hospital.

Dear Sir,

This is to certify that Ms. Aditika Agarwal is a Ph.D. Scholar working under the guidance of Dr. Komal Chauhan, from the Dept. of Foods and Nutrition, Faculty of Family and Community Sciences, The M.S. University of Baroda, Vadodara. She is carrying out the research work on the title, "Intervention studies with vitamin B12 and omega – 3 fatty acids and nutrition and cognition level in elderly with Mild Cognitive Impairment (MCI)".

She intends to survey in your reputed hospital. Kindly allow her to proceed further in her data collection through the O.P.D.

Thanking You.

Yours Sincerely,

Pollov M

Prof. Pallavi Mehta

Prof. & Head

Dept. of Foods & Nutrition

Prof. & Head Dept. of Foods & Nutrition to contact the data - survey in health center on as per

Date: 13/10/11

her study de

13/10/11

Dr. K. N. Shinglot

M.B., B.S., D.C.H.

MEDICAL OFFICER
THE M.S. UNIVERSITY OF BARODA

DEPARTMENT OF FOODS AND NUTRITION FACULTY OF FAMILY AND COMMUNITY SCIENCES THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA VADODARA 390 002 - INDIA



Date: 7/9/11

Phone :

Tele.

0265-2795522 [Ext.33]

Grams: "HOMSCIENCE"

No. F. C. Sc./ FND /

Sub: Permission regarding data-survey in your hospital.

Dear Sir.

This is to certify that Ms. Aditika Agarwal is a Ph.D. Scholar working under the guidance of Dr. Komal Chauhan, from the Dept. of Foods and Nutrition, Faculty of Family and Community Sciences, The M.S. University of Baroda, Vadodara. She is carrying out the research work on the title, "Intervention studies with vitamin B12 and omega - 3 fatty acids and nutrition and cognition level in elderly with Mild Cognitive Impairment (MCI)".

She intends to survey in your reputed hospital. Kindly allow her to proceed further in her data collection through the O.P.D.

Thanking You.

Yours Sincerely,

Prof. Pallavi Mehta

Prof. & Head

Dept. of Foods & Nutrition

Prof. & Head

of Foods & Nutrition

Kharivav Road, Nr. G.P.O., Dandia Bazar, Vadodara - 01. Ph. (O) 0295 - 2434644