Study ID
African Neurobiobank for Precision Stroke Medicine - Ethical, Legal, and Social Implications (ELSI) Project
DRAFT QUESTIONNAIRE SIREN STROKE CASES, SIREN CONTROLS AND LAY PERSONS
Dear Respondent, Good day. We are conducting a survey to explore your knowledge, attitude and perceptions, about ethical, legal and social issues related to the use of blood and stored blood fractions, brain images (CT/MRI) and brain donation in the context of stroke genomic research. We invited you to respond to a couple of questions because we believe that you have one important thing or the other to share with us on issues related to ethical, legal and social issues relating to stroke biobanking in the African context. Whatever we learn from today's discussion will help us develop an intervention program to address the ELSI issues related to stroke genomic and biobanking research in Sub Saharan Africa. We will not write your name or house address on the questionnaire. Some of the questions may touch on very personal issues. Your true opinions on these issues will be greatly appreciated. Please, kindly answer all questions sincerely. You have a right to decline to participate in the study without any consequence.
Thank you.
Willingness to participate Yes No Please tick the category the participant belongs to. SIREN Enrolled Stroke cases SIREN Enrolled Stroke Free Controls Non SIREN Stroke Free Lay Persons
Mode of questionnaire administration (PIs tick one option as applicable) Interviewer Administered Self-Administered
Interviewers Name/Initials

SECTION A: Socio Demographic Characteristics

1. Age in years (as at last birthday) 2. Gender Male Female
3. Type of Domicile: Rural Semi-urban Urban
4. Religion: Christianity Islam Traditional Others (specify)
5. Native Language: Yoruba
6. Ethnic group: Yoruba Igbo Hausa Ga/Adangbe Ewe Others (specify)
7. Country of birth: Nigeria Ghana Others (specify)
8. Average Total Monthly Household Income in USD: 0 -100 101 -250 251 -500 501 - 1500 1501 - 3000 >3000
9. Marital Status: Single Married Separated Divorced
10. Living Situation: Lives alone Lives with spouse and children Lives in a nursing home Live with spouse
Lives with extended family Lives with children Others (specify)
11. Primary Occupation:
11b. Classification: Highly skilled academic profession Home maker Skilled worker Manual work
Unemployed(able to work) Student Non-paid worker Semi-skilled worker Unemployed (unable to work)
11c. If retired, Primary Occupation before retirement:
12. Educational qualification: None Informal education Arabic School Primary Junior secondary Senior secondary
Tertiary Postgraduate
SECTION B: Awareness and knowledge of blood sample donation and bio-banking. Tick () the option appropriate to you)
13. Have you ever heard of the following terms?
a. Blood sample donation for medical research? Yes No
b. Blood sample storage (bio-banking) for research purpose? Yes No
If No to both questions a and b, please go to question 18.
14. If Yes, what do you know about blood sample donation for research?
15. If Yes, what do you know about blood sample storage (bio-banking) for research purpose?
16. If your answer to question 13a above is Yes, from which of the following sources did you hear about blood sample donation? (You can choose more than one option).
Hospital Training program Friend Colleague Newspaper/magazine Internet/Online resourcess
Seminar/conference/workshop TV Radio Community/public outreach/enagement Initiative Family Others(Specify)
17. If your answer to question 13a above is Yes, from which of the following sources did you hear about blood sample storage for research purpose? (You can choose more than one option).
(10d buil biloose more than one option).
Hospital Training program Friend Colleague Newspaper/magazine Internet/Online resourcess

	ch of the following biological samples can be stored in a biobank? (<i>You can choose moland related blood fractions</i> Urine Cerebrospinal fluid Brain tissues	re than one Others(S	. ,		
	ou aware of any guidelines/regulation that has to do with use of blood and its storage for	,	,	urnose? Voc	No
·		•			
20. If Ye	s, do you have a copy of any guidelines/regulation that has to do with use of blood and its	s storage to	or genomi	c research purpos	Se?Yes No
SECTIO	N C: Genetic Knowledge (Please Tick () the option appropriate to you)				
SN	Statements	Yes	No	Don't Know	
21	One can see a gene with the naked eye.	1.00			
22.	A gene is a disease.				
23.	A gene is a molecule that controls hereditary characteristics				
24.	Genes are inside cells				
25.	A gene is a piece of DNA				
26.	A gene is a cell				
27.	A gene is a part of a chromosome				
28.	Different body parts include different genes				
29.	Genes are bigger than chromosome				
30.	The genotype is not susceptible to human intervention				
31.	It has been estimated that a person has 22,000 genes				
32.	Healthy parents can have a child with a hereditary disease				
33.	The onset of certain diseases are due to genes, environment and lifestyle				
34.	The carrier of a disease gene may be completely healthy				
35.	All serious disease are hereditary				
36.	The child of a disease gene carrier ia always also a carrier of the same disease gene				
	e you ever heard of brain donation for research purpose? Yes No (If ans, what did you hear about brain sample donation for research?	swer is No	, please (go to question 4	1)
39. If yo	ur answer to question 38 above is yes, through which of the following sources did you he on choose more than one option).	ar about br	ain sampl	e for research pu	rpose?
Hospit	al Training program Friend Colleague Newspaper/magazine In	nternet/Onli	ne resour	cess	
Semin	ar/conference/workshop TV Radio Community/public outreach/enagemer	nt Initiative	Famil	y Others(Spe	cify)
40. Do y	ou know anyone who donated brain for research purposes before? Yes No				
	e you ever heard of the concept of collecting and storing brain for research purposes?	Yes		•	please go to Q.44)
	swer to question 41 above is Yes, through which of the following sources did you hear at in choose more than one option).	bout bankin	g/storing	of brain for resea	rch
Hospit	al Training program Friend Colleague Newspaper/magazine In	nternet/Onli	ne resour	ces	
Semin	ar/conference/workshop TV Radio Community/public outreach/enagemer	nt Initiative	Famil	y Others(Spe	cify)
43. Are y	ou aware of any guidelines/regulation that has to do with use of brain and its storage for	research p	urpose?	Yes No	
44. Wou	ld you be willing to donate your brain sample for research purposes after death? Yes	No			
44a. If Y	es, please state your reasons (you can choose more than one option)				
	the idea that it will help advance medicine I would be happy know the idea that it will help prevent future disease I like the idea that it ca	•		<u> </u>	
	/e no need of my brain again after death Others(Specify)			L	

	o, please state your reasons (you can c nt to go back to God complete	hoose more than one o	option)	I don't trust	Africans	
•	eligion does not allow that				medical system/medical researchers	
	onate my brain, people will think I have jout not knowledgeable of the purpose	oined occultic association	۱ 📙	it's like som I don't just v	eone is destroying the work of God	
	(0,: ,)			ruontjustv	vant to	
	ole in Africa would be willing to donate br			Agree D	isagree	
	ou Agree , please state your reasons (all					
	ou rigiou, piodos stato your rouseino (aii					
Most p	ou Disagree , please state your reasons people are not knowledgeable about it im by will agree to buried with incomplete bo	portance It is no	t commonly	asons as possible done in our envir	onment	
	t kind of actions should be taken in orderial publicity Education Legislati				search? (You can choose more thar	
Othe	ers (Specify)					
SECTIO	N E: Awareness of Stroke Genomic R	esearch. (Please Tick () the option	n appropriate to ye	ou)	
47. Have	e you ever heard of stroke genomic resea	arch? Yes No	(If a	nswer is No, plea	ase go to Section F)	
	ur answer to question 47 above is Yes , tl				,	
	n choose more than one option).	nough which of the fellow	ming oodi oo	o ala you nour abo	sur on one generale recourse.	
Hospit	al Training program Friend	Colleague Newsp	paper/magaz	rine Internet	/Online resourcess	
Semin	ar/conference/workshop TV R	adio Community/pu	blic outreac	n/enagement Initia	ative Family Others(Specify)_	
49. Have	e you ever donated blood for stroke geno	omic research before?	Yes	No		
50. Have	e you ever heard of the concept of collec	ting blood and storing the	e blood for s	troke genomic res	search?	
Yes		ease go to Section F.		· ·		
	swer to question 50 above is Yes, throug n choose more than one option).	h which of the following s	sources did	you hear about ba	anking/storing of blood for stroke genor	mic research
Hospit	al Training program Friend	Colleague Newsp	paper/magaz	zine Internet	/Online resourcess	
Semin	ar/conference/workshop TV Ra	adio Community/pu	blic outreac	n/enagement Initia	ative Family Others(Specify)_	
	Ily tick the appropriate response for the f			-		
SN	Statements	Yes I	No	Don't Know		
	Research on blood collected can lead	to advancement in medic	cine such as	:		
1	Drug discovery?					
2.	Better management of illness					
3.	Diagnostic tools					
SECTIO	N F: Awareness of Precision Medicine	• (Please Tick () the o	ntion approx	oriate to you)		
				,		
วง. Have	e you ever heard of precision stroke med	licine? Yes No	(If a	nswer is No, plea	ase go to Question 55)	

54a. If your answer to question 53 above is Yes, through which of the following sources did you hear about precision stroke medicine? (<i>You can choose more than one option</i>).
Hospital Training program Friend Colleague Newspaper/magazine Internet/Online resourcess
Seminar/conference/workshop TV Radio Community/public outreach/enagement Initiative Family Others(Specify)
54b. If Yes, what is precision stroke medicine?
SECTION G: Awareness , Knowledge and Perception on Informed Consent Processes 55. Have you ever heard of informed consent before? Yes No
56. What do you know about the informed consent process for genetic research?
57. Types of informed consent preferred (Facilitator to please explain each type to the participants) Broad Restricted Dynamic Dynamic
57a. If broad, provides reason(s) for your choice
57b. If restricted, provides reason(s) for your choice
57c. If tiered provides reason(s) for your choice
57d. If dynamic, provides reason(s) for your choice
58. Who are the persons to be involved before you can give informed consent? No one Spouse Children Parents Religious leaders e.g Pastors, Imam etc Others (Specify)
59. How should data collected from you be used in the incident of death? Once I have given it, you can do anything good with it even after my death My children/family should be called to decides It should be discarded Others(Specify)
59a. Give reasons for your response
60. It is best to use generic informed consent for community? (Facilitator should please explain) Agree Disagree
60a. If you Agree , please state your reasons (allow respondent to give as many reasons as possible)
60b. If you Disagree , please state your reasons (allow respondent to give as many reasons as possible)

For the following perception questions on Informed consent, please tick () the option appropriate to you

61	Perception	Agree	Not sure	Disagree
1	Broad informed consent should be used for genomic research			
2.	Consent forms should include a separate section relating to storage and future use of samples & data			
3.	It is personal choice to give blood for research.			
4.	Any blood sample collected from me must not be used for any other secondary use (subsequent use of			
	stored samples for researches not indicated on the informed consent)			
5.	I will participate in genomic research if my community leader agrees			
6.	Donor must be contacted each time the sample is to be re-used.			
7.	I feel it's a criminal offence to make profit from sample collected from me.			
SECTIO	N H: Willingness/Intention towards blood sample donation for research and biobanking (please tick () the option	on appropria	te to you)
62. Wou	ld you be willing to give consent for blood sample donation for genetic research and saving for future use?	Yes	No	
You can This is a I am not I don't tr Blood is Others(\$ 64. Wha	ust medical system My doctor warned me against donating blo life and I don't want to reduce my lifespan. I fell terribly sick the last time I donated blo	rust resear		ie?
•	result would help prevent future diseases I would be happy knowing that I can save someone's	life		
	ntribute to research activities I like the idea that it can help us know about our prob			
	give me a sense of responsibility I like the idea that it can help generations to come	,,,,,,,,		
	give me a sense of pride Drugs could be developed that can impact positively	on the soc	ciety	
	Specify)		,	
65. If yo	u were asked in a hospital to give consent for a family member blood sample donation for genetic research ar	nd banking	for future us	se,
will you	agree? Yes No			
65a if v	es, please give reasons for your answers			
oou. II y	so, please give reasons for your anowers			
65b. If N	lo, please give reasons for your answers			
	t kind of actions should be taken in order to promote willingness to give blood sample for research and bankin n choose more than one option)	g for future	e use?	
Media p	ublicity/campaign Public Education/Advocacy Legislation Involving religious and community lead	lers		
Education	on of people through social media Education by healthcare provider Others (Specify)			

SECTION I Health conscious behaviours 66. What do you do purposely for your health (Please choose as many as apply to you) Reduce alcohol consumption Avoid eating between meals Reduce amount of smoking Purposely eat less Exercise at least 30minutes or more once per week Refrain from oily foods Purposely move body once a week Reduce salt intake Try to eat fish Others _ SECTION J: Data sharing, Use and Reuse of Stored Blood/Blood products, Brain Tissue samples and images 67. Blood/blood fractions taken from me can be shared with other researchers both locally and internationally. Yes No 67a. if yes, please give reasons for your answers ____ 67b. If No, please give reasons for your answers ______ 68. Brain tissue samples taken from me can be shared with other researchers both locally and internationally Yes No if yes, please give reasons for your answers ____ If No, please give reasons for your answers _____ 70. My brain images can be shared with other researchers both locally and internationally Yes if yes, please give reasons for your answers ___ If No, please give reasons for your answers _____ SECTION K: Perception of biological sample donation for research and secondary use (please tick () the option appropriate to you)

71	Perception	Agree	Not sure	Disagree
i	Donating blood sample for research is good because any discovery can help to save lives.			
ii	Blood sample availability creates important opportunities for researchers to advance medical science			
	and contribute to collective good.			
iii	Blood collected from me can be stored for future use since I have no need of it again.			
iv.	There is no need to contact the donor of the blood sample if the need arises to conduct future studies			
	not previously planned.			
٧	Every benefit/ profit/ money got through research on my blood sample should be shared with me.			
vi.	Blood sample collected from me can be taken to another country for further use.			
vii.	My religion does not allow blood sample donation for research.			
viii.	I will give blood sample if my pastor / imam agrees.			
ix.	It is wrong in my culture to give blood sample for research purposes			
X.	It is wrong in my culture to give blood sample for storage purposes			
xi.	I will like to receive the result of genetic testing done on my blood sample.			
xii.	Clients who desire to know their own genetic status should receive pre- and post-genetic counselling.			

xiii	Perception	on			Agree	Not sure	Disagree	
	Genetic discrimination in the context of their marriage, employment or insurance may increase if result of							
	finding is returned to dono	r						
xiv.	~ ~	Returning genetic test results from genetic studies, should be done using 'face-to-face' approach						
XV.	I would support my family members who shows willingness to donate blood sample for genomic research				rch			
xvi.	I would support my family members who shows willingness to donate blood sample for storage							
. Have a. If Ye	you ever donated blood or es to question 68, kindly com		ports been collecte	d for research purpose be	efore? Yes	No		
SN	Biological Sample(s)	Organisation project	Date	Location		Purpose for which sample wa collected/donated		
a	Blood							
b	Urine							
С	Cerebrospinal fluid							
d	Brain Images(CT/MRI)							
е	Brain Tissues							
f	Others(specify)							
b. If yo	our answer to question 68 is	No, have you ever had the opposite declined? Yes No on(s) for declining to donate block			·	·	,	
Bb. If you	our answer to question 68 is le for research to which you es, kindly explain your reasc	declined? Yes No			·	·	,	
sb. If you sample bi. If You resea	our answer to question 68 is le for research to which you es, kindly explain your reaso	declined? Yes No	od or have your blo	od (or other biological sar	mples/reports)	collected as s	ample	
b. If you sample bi. If You resea	our answer to question 68 is le for research to which you es, kindly explain your reasont. It factors will greatly encourage. M: Perception relating to company you ever received genetic company.	declined? Yes No	on or have your bloomation and (or other	od (or other biological san	mples/reports)	collected as s	ample	
sb. If you sample bit. If You research. What section is. Have it a. If you	pur answer to question 68 is le for research to which you es, kindly explain your reason rch	declined? Yes No on(s) for declining to donate block ge you to participate in blood do disclosure of individual genor counselling before? Yes	onation and (or other	od (or other biological san	mples/reports)	collected as s	ample	
b. If you sample bi. If You resear. What ection a. Have a. If you have the control of the contro	our answer to question 68 is the for research to which you des, kindly explain your reasons. If actors will greatly encourage the factors will encourage the factors will encourage the factors will be factors will encourage the factors will en	declined? Yes No on(s) for declining to donate block ge you to participate in blood do disclosure of individual genom counselling before? Yes d for?	onation and (or other No No if No	od (or other biological san er biological samples/repo	mples/reports)	collected as s	esearch?	
b. If you sample bi. If You reseath. What ction . Have a. If you . If you	pur answer to question 68 is le for research to which you es, kindly explain your reasont. If actors will greatly encourage the properties of the expounce of	declined? Yes No on(s) for declining to donate block ge you to participate in blood do disclosure of individual genome counselling before? Yes donation/other biological sample	onation and (or other No No if No	od (or other biological san er biological samples/repo lings? o go to Q.79 activity, how was the res	mples/reports) orts) collection	collected as s	esearch?	
b. If you sample bi. If You research. What ection and a lif you sake speedbace	pur answer to question 68 is le for research to which you les, kindly explain your reason rch If actors will greatly encourage M: Perception relating to company to each you ever received genetic company to each you ever participated in general had participated in a blood pecify: Phone Call Enter the company to the co	declined? Yes No on(s) for declining to donate block ge you to participate in blood do disclosure of individual genor counselling before? Yes donation/other biological sample mai Letters Feedback Others (please specify)	on or have your bloomation and (or other holds of the hol	od (or other biological san er biological samples/repo lings? o go to Q.79 activity, how was the res r Feedback through	mples/reports) orts) collection cult/research fir	collected as s	esearch?	
Sb. If your samples of the samples o	pur answer to question 68 is le for research to which you les, kindly explain your reason rch If actors will greatly encourage M: Perception relating to company to each you ever received genetic company to each you ever participated in general had participated in a blood pecify: Phone Call Enter the company to the co	declined? Yes No on(s) for declining to donate block ge you to participate in blood do disclosure of individual genor counselling before? Yes d for? nomic research before Yes donation/other biological sample	on or have your bloomation and (or other holds of the hol	od (or other biological san er biological samples/repo lings? o go to Q.79 activity, how was the res r Feedback through	mples/reports) orts) collection cult/research fir	collected as s	esearch?	
Bb. If your samples of the samples o	bur answer to question 68 is le for research to which you es, kindly explain your reason rch If actors will greatly encourage M: Perception relating to company to eas, what were you counselled by you ever participated in gereat had participated in a blood pecify: Phone Call End through a clinician country to the coun	declined? Yes No on(s) for declining to donate block ge you to participate in blood do disclosure of individual genor counselling before? Yes donation/other biological sample mai Letters Feedback Others (please specify)	on or have your bloomation and (or other hic Research Find No if No e/reports collection as by a health workern was returned to	od (or other biological san er biological samples/reportings? o go to Q.79 activity, how was the res r Feedback through a	mples/reports) orts) collection oult/research fir a researcher	collected as s	esearch? with you?	

Others (please specify) _____

Feedback through a clinician

Feedback through a researcher

80. Will you prefer to have your individual genetic research/result findings collected by proxy or third party? Yes No
SECTION N: Bio-rights 81. Do you think participants in researches should have control on how their biological specimens will be used? Yes No Don't know
82. How much control should/can individuals have regarding how their biological specimens will be used in research? None Little Much Total 83. Has this interview influenced your willingness to give consent for blood sample donation for research and banking? Yes No
83a. if yes, please give reasons for your answers
83b. If No, please give reasons for your answers