APPENDIX Q: POLICY PROTOCOL FOR SATELLITE COCHLEAR IMPLANT UNITS

SUMMARY

A satellite cochlear implant programme is developed with the purpose of extending audiological (assessment, mapping and rehabilitation services) services to patients who have difficult accessing the core cochlear implant programme. The satellite programme falls under the umbrella of the Core Cochlear Implant Programme. This document outlines the structures, roles and functions of the satellite unit in relation to the Core CIP.

1. INTRODUCTION

The _____ Cochlear Implant Programme has established and developed Satellite Cochlear Implant Units with the purpose of extending the audiological services of the programme to the public.

The following are definitions, conditions and protocols that will apply in the establishment of these Satellite Units.

Abbreviations and Definitions

XXXXXCIP: XXXXXXX Cochlear Implant Programme

S-CIU: Satellite Cochlear Implant Unit

Services: Appropriate management of adult and paediatric cochlear implant

candidates and users

Identified audiologist: The specific audiologist who has been identified within the

Satellite Unit who will provide cochlear implant management

services

2. PURPOSE OF THE PROTOCOL

The purpose of this protocol is to identify and define the undertakings, roles and responsibilities of ______ CIP and the Satellite Unit(s) that will result in best practice and service delivery to cochlear implant users, new candidates and their families.

3. BACKGROUND

The first Cochlear Implant Programme in South Africa was established in November 1986 at Tygerberg Hospital-Stellenbosch University where patients from all over South Africa were referred to and received their cochlear implants.

In the 1990s new cochlear implant programmes were established in South Africa after surgical and audiological training of core team members. The following cochlear implant programmes were established: Pretoria (1990) and Johannesburg (1991). Since 2003 further cochlear implant programmes across South Africa were established due to an increased demand in service delivery.

The successful development of Cochlear Implant Programmes in South Africa can be attributed to the principle of a strong multidisciplinary team approach in the evaluation and management of patients for both the short and long term.

A cochlear implant programme is responsible for the lifelong follow-up management and care of cochlear implant users, specifically audiological services. As a result of an exponential increase in patient numbers, this places pressure on available audiological support in local programmes. In order to address this challenge of growing patient numbers, as well as to accommodate the travel and often accommodation requirements for visits by patients, the need arose for the development of satellite audiology services which would be able to support the primary CIP.

4. NAME AND ROLE OF THE COCHLEAR IMPLANT UNIT

The name of the programme is: _____ Cochlear Implant Programme. This is the primary/core programme.

5. NAMES OF SATELLITE COCHLEAR IMPLANT UNITS (S-CIU)

5.1

5.2

6. <u>DESCRIPTION OF</u>	COCHLEAR IMPLANT
<u>UNIT</u>	
is the	primary /core programme that services a
specific geographic area of South Africa;	namely
Services include complete surgical, audiolo	ogical and (re)habilitative care, including
assessment and selection of suitable cochlear	implant candidates.
7. DESCRIPTION OF THE SATELLITE COO	HLEAR IMPLANT UNIT (SU)
The satellite cochlear implant unit (S-CIU) is it	dentified, developed and supported only by
CIU. The	S-CIU provides only audiological and
rehabilitative services to implant users. S	urgical procedures are provided by the
surgeon(s) of the core programme only.	
Local, appropriate ENT care should be availa	ble for remote SUs where an ENT surgeon
with specific otology experience is identified,	trained appropriately and supported by the
core programme. The ENT identified would b	e invited to join the South African Cochlear
Implant Group (SACIG) in order to remain ups	killed in the field of cochlear implantation.
8. QUALIFICATIONS OF ENT SURGEONS	AND AUDIOLOGISTS
The ENT surgeons are trained in cochlear implant	surgery according to the national South African
Cochlear Implant Group (SACIG) guidelines.	
The	CIU ENT surgeons are:
8.1	
8.2	
8.3	
8.4	
The audiologists belonging to	CIU and to the S-CIUs are
required to have Additional Training in Cochlear Im	plant Mapping and Rehabilitation (accredited by
HPCSA) with a Certificate of Competence provide	ed by an accredited training institution in South
Africa and to be registered with SACIG as a Cochle	ar Implant Audiologist.
All the audiologists are expected to have at least	5 years of experience in adult and paediatric

supervision of an experienced, accredited audiologist.

audiology. An audiologist with less that this amount of experience should work under the

9. TRAINING

9.1	A m	inin	num of basic, ongoing support and training is required for the successful
	impl	eme	entation and future sustained mutual function of the
	CIU	and	the S-CIU. The S-CIU audiologist is expected to attend training and all the
	tean	n me	eetings of the Core team.
9.2	Traii	ning	functions include the development and maintenance of skills in order to
	ensu	ıre a	a continued and consistently high, appropriate standard of service delivery.
9.3	Traii	ning	and support by CIP will be provided
	in th	e fo	llowing speciality areas to the S-CIU audiologist:
		-	Referral criteria of patients for cochlear implantation;
		-	Decision-making regarding referrals of cochlear implant users;
		-	Evaluation and management of potential and new cochlear implant users
			according to theCIP and SACIG protocols;
		-	Ongoing monitoring and long-term management of existing cochlear implant
			users according toCIP and SACIG
			protocols;
		-	Decision making with regards to referring patients back to theCIP
		-	Programming of electrodes of existing cochlear implant users;
		-	Audiological rehabilitation and management of cochlear implant users;
		-	The CIP coordinator will provide forms and
			protocols as required by the S-CIU. The forms should be named
			appropriately: e.gCIU Satellite Unit;
		-	Identification of faulty sound processors, replacement of these and sending
			of equipment for repair;
		-	Troubleshooting of equipment of cochlear implant users;
9	.4	Tra	ining by Distributors of Cochlear Implant Systems will include the following:
		-	Continuous, timeous updates of information about cochlear implant systems
			(internal and external components), software, mapping, accessories and
			other new developments;
		-	Regular clinical and technical support will be provided by the relevant

company/ies to the S-CIU;

service delivery to new and existing cochlear implant users. Training will be done at ______ CIP or on site and should be attended by all CIP S-CIU audiologists. Training may also be offered at other centres and where appropriate S-CIU audiologists should attend this training. 10. THE ROLE AND CLINICAL FUNCTIONS OF COCHLEAR IMPLANT PROGRAMME is located in ____ CIP (Coordinator) oversees and is responsible for all decisions regarding the selection of patients, policies, protocols, allocation of state funds for patients, skills development and academic training of staff members. Some of these decisions and activities are made/occur at monthly team meetings that are attended by the ENT surgeons, radiologists, audiologists and speech-language therapists, or on special request of other appropriate team members who are invited to attend the team meeting. The S-CIU audiologist is required to attend all team meetings. Additional _____ meetings are attended by the audiologists alone to discuss general management and policy issues of ______CIP, equipment, management decisions, internal issues, protocols as well as academic training. Additionally, patients are allocated and complex cases discussed. S-CIU audiologists are not expected to attend these meetings but are welcome to do so should they wish or they could be requested to attend for a specific reason. An annual planning meeting is held once a year and should be attended by S-CIU audiologists. A further role of _____ CIP is to support the S-CIUs with clinical support, discussion about patient management and MAPping as well as queries related to software. These consultations can take place telephonically or by email.

- Distributors will provide the necessary hardware required for appropriate

Visits can also occur by the Coordinator or a core audiology team member, in particular during the establishment phase of the SU.

Other	clinical functions of CIP include:
10.1	Patient selection;
10.2	Surgical services;
10.3	Audiological evaluation: pre- and post-operative assessment including establishment of hearing thresholds (aided and unaided, ear specific), speech perception testing (including assessment of assistive listening devices);
10.4	Self assessment scales and other questionnaires as per currenCIP and SACIG protocols;
	Results may be required for partaking in research projects.
10.5	Intra-operative testing;
10.6	Counselling and consent: pre and post-operative;
10.7	Programming of electrodes (MAPping);
10.8	Audiological rehabilitation and patient management;
10.9	Case discussions (pre- and post-operative) with other team members;
10.10	Attendance of case discussions at schools and other locations;
10.11	Identification and troubleshooting of faulty sound processors or other equipment;
10.12	Fitting of loan / replacement sound processors;
10.13	Maintenance of parts and additional equipment;
10.14	School visits and training of school personnel as required;
10.15	Research projects (includes contribution to and initiating);
10.16	Appropriate forms and protocols (including as these develop and change) will be
	provided to the S-CIU by theCIP Coordinator.
10.17	A team member audiologist should be available over holiday periods fo emergency cases.

NAME	Ī		ROLE			
Name	of	Satellite	Unit	Audiology	team	member(s):
12. <u>AC</u> /	ADEMIC ACT	TIVITIES OF			CIU	
12.1	Presentatio	ons and attenda	nces at wo	rkshops;		
12.2	Monthly aca	ademic training	•			
12.3	Continued 6	education and t	raining by	service providers		
12.4						
12.5						
13. <u>RES</u>	SEARCH					
Any res	search undert		•	poperation with a		-
Any res	earch undert			CIP (Co	ordinator). (Consent should
Any res	search undert	e Ethics Commi	ittee of	•	ordinator). (Consent should

11. CURRENT SACIG-REGISTERED TEAM MEMBERS OF

CIU

CIP 14. ADMINISTRATIVE ACTIVITIES OF 14.1 Maintenance of the database and record-keeping of all patients (inclusive of new referrals, allocation of patients, all surgeries (1st and 2nd ear), upgrades, complications, transfers. 14.2 Obtaining quotations for new implants (surgeries) and upgrades of sound processors; 14.3 Motivations for upgrades of sound processors; 14.4 Arranging appointments at appropriate intervals for patients as per__ CIP/SACIG protocol or if required by patient before; 14.5 Ordering of implant systems and sound processors (upgrades); 14.6 Obtaining quotations from relevant distributors when required: 14.7 Provision of information about fundraising and procedures for prospective candidates; 14.8 Ensuring that all test, rehabilitation, patient management and administrative forms are correctly maintained, completed and filed; 14.9 Maintenance and stock management of brochures, test equipment, spares and demonstration equipment; 14.10 Supervision and management of staff of _____ CIP (Coordinator); 14.11 Collecting information for annual newsletter; 14.12 Annual year report (Coordinator). 14.13 Submission of required data annually to SACIG 15. EQUIPMENT

The following are the minimum	requirements for equipment needed by the audiologists of
	CIP and the S-CIUs:

- 15.1 Soundproof booth large enough to conduct free-field testing as per SACIG protocol via 2-3 loudspeakers that are appropriately positioned;
- 15.2 Double-channel audiometer (annually calibrated) with the following specifications: pure tones that can be presented as FM tones; channel for speech audiometry (with or without competing signals), a minimum of two

	loudspeakers; external port coupling to connect CD player or iPod or system for
	the presentation of recorded speech material;
15.3	Recorded speech material (monosyllabic words and sentences);
15.4	Computer that has the required specifications to run the software required by the
	cochlear implant systems provided;
15.5	An appropriate office space for comfortable seating for MAPping of children and
	adults;
15.6	Programming cables and equipment for MAPping. The service provider of the
	Implant system(s) used byCIP should provide the S-CIU
	with all the required equipment necessary for appropriate patient management
	for all types of sound processors in use, the same equipment should be available
	for the S-CIUs;
15.7	Equipment and toys for paediatric conditioning activities;
15.8	Furniture appropriate for adults and children;
15.9	Provision of loaner / replacement sound processors and test equipment for all
	processor types in use.
16. <u>RC</u>	DLE AND CLINICAL FUNCTIONS OF THE SATELLITE COCHLEAR IMPLANT
<u>UN</u>	IITS (S-CIUs)
16.1	Notification about new patients to be assessed and referral source to the
	Coordinator ofCIP for record-keeping and for allocation to
	the audiologist. This includes new referrals from other sources;
16.2	CIP Coordinator should be informed about cochlear
	implantusers that are transferred from other cochlear implant programmes to the
	S-CIU audiologist.
16.3	New patients: take a full case history (as per CIPs case history form) and
	evaluation of the patient's candidacy for possible cochlear implant in terms of
	audiological and other criteria according toCIP and
	SACIG guidelines (Appendices B and F);
16.4	Distant S-CIUs: The full audiological results and information about the patient
	should be sent to the Coordinator of CIP so that all the information is
	available for presentation at the team meeting if the satellite CI audiologist is not
	able to attend. Radiology should be done according to CIP

	protocol and SACIG guidelines (Appendix D) and be made available to
	CIP the week prior to the team meeting. The case will be
	presented by aCIP audiologist (representative) as
	allocated by theCIP Coordinator or by the S-CIU
	audiologist onlineCIP is responsible for the final
	decision Regarding candidacy and finalising arrangments for the surgery;
16.5	Local S-CIUs: Monthly team meetings should be Attended by the local S-CIU
	audiologist (online or in person). The same information as in 16.4 should be
	presented and radiology provided to theCIP coordinator
	theweek before the team meeting. The Coordinator should be informed that the
	S-CIU audiologist wishes the patient to be discussed at the next team meeting
	and to be placed on the agenda;
16.6	Clinical questions about patients should be directed to the
	CIP Coordinator or other audiologists and not to the
	suppliers of cochlear implants. Problem cases should be reported to the
	Coordinator and referral of unresolved problems should be reported to the clinical
	support person of the distributor. Failing resolution thereof should be reported to
	the Company clinical support specialist.
16.7	Queries regarding equipment (hardware) or software should be directed to the
	distributor and theCIP Coordinator should be informed;
16.8	Additional clinical services provided by the S-CIU include:initial activation of the
	device and programming, rehabilitation and support, ongoing MAPping and
	assessment as perCIP protocol and SACIG guidelines
	(Appendix F) and management of equipment such as sound processors;
16.9	Academic activities (such as presentations) conducted should be done under the
	banner ofCIP in order to protect the identity of
	CIP. The Coordinator ofCIP should
	be informed of any presentations done or articles published;
16.10	Equipment: refer to #15 - the same equipment is required by the S-CIU,
16.11	Any changes in contact details as well as circumstances of patients under
	management should be provided to the Coordinator ofCIP so
	that all information is up to date.
16.12	All registrations for new surgeries and for upgrades for each patient should be
	sent to theCIP Coordinator and administrator within a

	week of he event (can be emailed). The registration details should be sent
	together with the order form which should include payment details. The service
	provider should be informed and registration details sent to the distributor.
16.1	Patients who wish to be transferred to another programme: a transfer report
	Appendix M) should be written and the MAPping file emailed to the Coordinator
	of the programme. TheCIP Coordinator and administrator
	should be informed and copied in on the email. The Coordinator of the
	programme to which the patient is to be transferred should be contacted to
	ensure that programme is able to receive and manage the patient;
16.14	The Coordinator of the CIP should be informed in writing / email
	timeously of all information required for the Annual Report (Appendix K). The
	information includes all referrals of new patients, transfers (in and out) of
	patients, total number of patients implanted (unilateral and bilateral), total number
	of patients under management, device failures, patients deceased and non-
	users. Information regarding academic activities, e.g., presentations, relevant
	conferences or workshops attended must be included.
16.15	Choice of device: patients should be informed of (3) device options and sign
	consent that they have been informed.
16.16	Patient files should be maintained with all information kept as per the HPCSA
	requirements for record-keeping. The S-CIU audiologist should endeavour to
	keep the files in the same format as the CoreCIP.
17. <u>RO</u>	LE OF THE DISTRIBUTORS TO THE SATELLITE UNITS
17.1	Installation and upgrading of required software;
17.2	Provision of programming cables and equipment required for programming of all
	the devices in use at that S-CIU;
17.3	Provide support and assistance for software and clinical support queries;
17.4	Provision of loan/replacement sound processors and equipment as required;
17.5	Administrative support for orders, upgrades and repairs of sound processors;
17.6	The same level of support for courier and distribution services should be
	available as is forCIP;
17.7	Should the S-CIU audiologist not be able to attend training provided by the
	distributor at CIP or another location personal visits as

- needed should be provided. Financial aid should be provided by the Distributor to attend training events.
- 17.8 Brochures and necessary equipment should be provided as needed;
- 17.9 All S-CIUs should be kept informed of new, relevant developments by the service provider and the company.

18. PATIENTS

18.1	The identified S-CIU audiologist () will mark	ket
	these audiological services to professionals and the public based on t	the
	principles of this agreement and with the understanding that the patients the	S-
	CIU audiologist () assesses, manages and administe	ers
	are registered as patients registered by and falling und	der
	CIP;	
18.2	All records, data, forms and information related to thei cochlear implant of t	the
	patient of the S-CIU are the property	of
	CIP;	
18.3	Should the relationship betweenCIP a	ınd
	the S-CIU be terminated (for any reason), all patient records and equipme	ent
	should be returned toCIP;	
18.4	Should the satellite programme become an independent programme (i.e. ha	ıve
	their own surgeon and appropriate infrastructure to function independently as p	per
	SACIG Quality Standards document), the Coordinator	of
	CIP and the Chairperson of SACIG Exco should	be
	informed in writing. The Coordinator ofCIP and the S-C	UIC
	audiologist will then inform the patients under the care of the S-CIU.	
18.5	Should the audiologist of the S-CIU leave the practice, a new audiologist w	/ho
	has the required accreditation as required by SACIG and the HPCSA, can	be
	appointed within that S-CIU to manage the CI patients. The Coordinator of t	the
	CIP and the S-CIU audiologist should agree on the suitability of this person.	

19. TERMINATION OF AGREEMENT

In the	event of the S-CIU not complying appropriately with any of the conditions listed
above	and not committing to correct the issue within seven (7) days,
	CIP reserves the right to terminate the S-CIU
relatio	nship and agreement without further notice. The patients will be informed of this
termin	ation and will be re-allocated to an appopriate service.
20. <u>CC</u>	ONFIDENTIALITY
20.1	It is agreed that as a result of the relationship and agreement between the two
	parties (S-CIU audiologist and
	CIP), the S-CIU audiologist will have access to
	information about patients, theCIP protocols, distributor and
	company information;
20.2	The S-CIU audiologist will not during, or after termination of the agreement
	supply any information to any person or any confidential information about the
	CIP or the matters to that programme, to the benefit or
	detriment of theCIP.
20.2	The S-CIU audiologist understands that the patients managed by the S-CIU are
	the primary responsibility ofCIP for cochlear implant
	management;
20.3	The S-CIU audiologist will not, during the period of the agreement or thereafter,
	give any person access to confidential information about patients, other than with
	their specified written consent;
20.4	The S-CIU audiologist will not, during the period of the agreement or thereafter,
	give any person access to confidential information about
	CIP without the express written approval of the Coordinator of
	CIP.
20.5	In the event of the termination of the relationship between the S-CIU and
	CIP, the S-CIU audiologist is to return all confidential
	information and CI-related patient records to the
	CIP Coordinator and the equipment should be returned to the distributor of
	CIP

The S-CIU audiologist is not permitted to keep any copies of the above records
or documentation for her/his own use without the written permission of the
CIP Coordinator.
Should the patient remain within the S-CIU under a different audiologist, the
records will stay within that practice.
RMS AND CONDITIONS
The core CIP reserves the right to cancel the
relationship and services provided by the Satellite Unit (S-CIU).
The difference betweenCIP and the S-CIU is that the
CIP team includes core team members including ENT
surgeons, audiologists and speech-language therapists. The team member(s) of
the S-CIU consist only of audiologist(s). All cochlear implant surgeries are done
by the CIP ENT surgeons.
ellite Unit:
ellite Unit Audiologist:
Date:
CIP Coordinator:
CIP Coordinator:
Date: