														FIRS	T PH	ASE						SECOND PHASE	THIRD	PHASE
	CI		dacy							С	aily ra	andon	nizatio	on				Free	Choice	Shared	decision	Preferred	Clinical fit	t Final fit
	HA (contra)		candidacy	preop	OR	ENT	firs	t fit	REM													Optimize	Choice	
Timeline		# visit code		-	-	-	F1	F2	F3	_	F5	F6	F7	F8	_	F10	4		F13	F14	F15	S1	T1	T2
		# weeks			-4	-3	0	1	2	3	4	5	6	7	8	10	12	16	20	26A	26B	30	34	52
	rola	# months tive time cfr. previous visit		111	-	+9D	+4W	1.1\/	1 1 1 1 1	1 1 1 1 1 1	1	1 . 1 \ A /	1,5	/ . 1\4	1 . 1 \ A /	1 . 2 . 4 /	3 +2W	+4W	+4W	6	6	7 +4W	8 +4W	12 +18W
	reia	window cfr. previous visit		-1M ±1N			±3W					±5D			_		±1W	±2W	±2W	+6 ±2		±2W	±2W	±4W
Clinical rehabilitation		Audiologist (fitting CI/HA)		<u> </u>	<u>'I </u>	1_30	150 ¹	75 ²	90 ³				75 ²				60 ²			45 ⁴		60 ⁵	60 ⁶	60 ⁷
		Speech therapist (rehab)						45	45	45	45	45	45	45	45	45	45							
		Social worker (consult)									60									60				60
Audiometry	unaided	Thresholds + CNC	20	20			20													20				20
	НА	Aided thresholds	10 ^E						5 ^E											5 ^E			5 ^c	5 ^D
	CI	Aided thresholds							10 ^A				10 ^A							5 ^{A*}				5 ^D
REM	НА	Aided							15															
Imaging		CT/MRI CBCT	X			x																		
CI-data		M-T levels					0	0	0				0				0			0				
		Datalogging						0	0	0	2	2	0	2	2	2	0	2	2	0		0	0	0
		Impedances			Х		0	0	0	0	2	2	0	2	2	2	0	2	2	0		0	0	0
		Cross-impedances			X			0							0					0				
		ECAP			X			20							20				Δ	20	Λ*		CD	
Basic tests	CI	CNC					10 ^A	10 ^A					10 ^A	10 ^A	_	10 ^A	10 ^A	10 ^A	10 ^A		5 ^{A*}	5 ^B	10 ^{C,D}	5 ^D
	CI	Matrix quiet					20 ^A	20 ^A								20 ^A	20 ^A	20 ^A	20 ^A		10 ^{A*}	10 ^B	20 ^{C,D}	10 ^D
	CI	Matrix noise					20 ^A	20 ^A			20 ^A		20 ^A	20 ^A	20 ^A		10 ^{A*}	10 ^B	20 ^{C,D}	10 ^D				
	HA	CNC	15 ^E				5 ^E		5 ^E	5 ^E						5 ^E					5 ^E	5 ^B	5 ^c	5 ^D
	CIHA	CNC								10 ^A						10 ^A					5 ^{A*}	5 ^B	5 ^C	5 [□]
	CIHA	Matrix noise								20 ^A						20 ^A					10 ^{A*}	10 ^B	10 ^c	10 ^D
Summed up estimated time basic tests			15				55	50	55	85	50	50	50	50	50	85	50	50	50		45	45	70	45
Extended tests	CI + CIHA	Matrix noise spatial														80 ^A					40 ^{A*}	40 ^B	40 ^c	
	CI + CIHA	Listening effort									24 ^A						24 ^A				12 ^{A*}	12 ^B	12 ^c	12 ^D
	CI + HA	Loudness scaling									18 ^A						18 ^A				12 ^{A*}	12 ^B	12 ^c	
	CI	SMRT									20 ^A						20 ^A				20 ^{A*}		10 ^c	
Questionnaires		SSQ-12		Х																Α			С	D
		HUI-3		Х																Α			С	D
		ICECAP-A		Х																A			С	D
		Preference scales					Α	Α	Α	A	Α	Α	А	Α	Α	Α	A	Α	Α	A			C	D
Compliance checks		Sound quality								A							A			Α	· ·		<u> </u>	D
Compliance checks		HA								х			x x				Х			х				
Trial administration		Adverse events			Х	Х	х	х	х	х	х	х	х	х	х	х	Х	Х	Х	Х	Х	Х	х	х
Extended adverse events						х											Х				х	х	х	
ı	D	ata management check-up					Х											Х				Х	х	х
Device deficiencies				Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	X	Х	Х	
Invoice travel expences																					Х			Х
Total estimated time (in minutes) per visit (excluding questionnaires and imaging)			60	20	NA	NA	225	190	220	205	217	99	180	99	119	214	217	54	54	119	165	169	199	207
Reference time standard clinical rehabilitation			60				120								45	45	45	0	0	19		0	0	195
var = variable memort			00	20	IVA	IVA	120	103	120	103	103	43	120	43	43	43	43	U	U	15		U	U	133

var = variable moment
extra visit (not combined with clinical visit)

deviant from clinical rehabilitation (e.g. additional test, visit takes more time)

Test conditions

- A = measure outcome with standard AND natural FAT (HA = bimodal fit)
- A*= measure with preferred FAT (standard OR natural (HA = bimodal fit)
 B = measure with HA loudness fit in acute setting (CI=preferred FAT)
- C = measure with HA loudness fit after acclimatisation (CI=preferred FAT)
- D = measure with Al loudness it after accir D = measure with Cl and HA in clinical fit
- E = candidacy: measure both hearing aids seperately and in case of a bilateral HA user also bilateral for CNC; postop: measure HA contra
- 0 = time included in fitting CI

Test	testing properties	# administrations per testing property	Estimated time
Thresholds	250-8000Hz	1x	5 min per ear/condition
CNC	55 dB, 65 dB, 75dB	1x (retest 65 dB)	5 min per ear/condition
Matrix Quiet	65dB	2x (test-retest)	10 min per condition
Matrix Noise	N65dB, Svariable	2x (test-retest)	10 min per condition
Matrix noise spatial	SONCI, SONHA	2x (test-retest)	20 min per condition
Listening effort	6 SNR	5x per SNR	6 min per condition
Loudness scaling (Acalos)	5 noise frequencies	1x	6 min per condition
SMRT	Frequency selectivity test	2x (test-retest)	10 min per condition

Fitting legend

- ¹ Initial CI-fitting in week 1 according to clinical practices, including impedance measurement and determination of M-T levels, subsequently initial fitting of HA contra. In case of ipsilateral residual hearing: try-out EAS live and decide whether or not to continuate study.
- ² CI-fitting according to clinical practices, including impedance measurement, datalogging and determination of M-T levels, followed by fitting of HA contra
- ³ CI-fitting according to clinical practices, including impedance measurement, datalogging and determination of M-T levels, followed by extensive fitting of HA contra based on REM
- ⁴ CI evaluation fitting according to clinical practices, including impedance measurement, datalogging and determination of M-T levels, followed by evaluation of HA fitting
- ⁵ HA optimization fitting, CI fitting limited to check of impedances and datalogging
- ⁶ Programming of preferred HA fitting at the end of testing, programming of preferred CI fitting with Soundwave instead of BEPS+
- ⁷ CI evaluation fitting according to clinical practices, including impedance measurement and datalogging, followed by evaluation of HA fitting