MILD AND UNILATERAL HEARING LOSS: PSYCHOSOCIAL

		RECRUIT-	CASE		ASSESSMENT		AUTHOR'S
REFERENCE	DESIGN	MENT	DEFINITION	SUBJECTS	TOOLS	RESULTS	CONCLUSIONS
Newman CW,	Questionnaire	Outpatients	Mild: PTA* .5,	Total: N = 63	HHIA: a	Mean HHIA score for	Adults with
Jacobson GP,		from Henry	1, 2 kHz* of		standardized	unilateral normal subjects	unilateral normal or
Hug GA,	Research	Ford	≤40 dB* HL* in	With hearing	test that	was 33.5 (SD 21.8), and	mild bilateral
Sandridge SA.	Objectives:	Hospital in	the better ear	loss: N = 63	quantifies self-	mean HHIA score for	hearing loss should
Perceived	To quantify	Detroit, MI.	(mean 22.8 dB		perceived	subjects with mild bilateral	be considered
hearing	self-perceived		HL).	Controls: N/A	handicap using	hearing loss was 41.9 (SD	candidates for
handicap of	"hearing			00 1 11 40	a 25-item scale	33.5).	audiologic
patients with	handicap" in a		Two sub-	63 adults 18–	composed of a		rehabilitation,
unilateral or	sample of		samples:	64 years (mean	13-item	High SD shows that there is	including at least
mild hearing	adults with		(4) 11 11 (age 48.7 years;	emotional	great variability in perceived	patient-family
loss. Ann Otol	unilateral or		(1) Unilateral	SD 11.6 years)	subscale and a	handicap among individuals	counseling
Rhinol	mild bilateral		normal: 43	No second of	12-item social-	with both unilateral normal	regarding
Laryngol.	hearing loss		subjects (68%)	No record of	situational	and mild bilateral hearing	communication
1997;106(3):	using the		with 0–25 dB	prior hearing	subscale.	loss.	strategies and the
210–4.	HHIA.*		HL in better	aid use.	Possible scores	75% of outlinests with	option to evaluate
	To identify		ear; mean 15.8 dB; SD* 7.3 (≤	No evidence of		75% of subjects with unilateral normal and mild	the potential benefits from
	specific		dB, SD 7.3 (≤ 40 dB in	conductive	range from 0	bilateral losses reported	amplification.
	emotional and		affected ear).	hearing loss	(no perceived handicap) to	some degree of	ampinication.
	social-		anecieu ear).	through pure	100 (significant	communication and	
	situational		(2) <i>Mild</i>	tone air and	perceived	psychosocial problems.	
	problems		bilateral: 20	bone	handicap).	psychosocial problems.	
	assessed by		(32%) subjects	conduction	Handicap).	For subjects with unilateral	
	the HHIA.		with 26–40 dB	audiometry,		normal hearing loss, items	
	the filling.		HL; mean 32	tympanometry,		related to feeling frustrated,	
			dB; SD 4.6.	and otoscopic		upset, and left out had the	
			ub, ub 4.0.	examination.		three highest scores	
				CAUTIIII ation.		Timee riightest seeres	
						For subjects with mild	
						bilateral hearing loss, items	
						associated with irritability,	
						feeling upset, and feeling	
						left out were perceived as	
						the 3 greatest emotional	
						consequences of hearing	
						loss.	

^{*} HHIA = Hearing Handicap Inventory for Adults; PTA = pure tone average; kHz = kilohertz; dB = decibel; HL = hearing level; SD = standard deviation

MILD AND UNILATERAL HEARING LOSS: PSYCHOSOCIAL

		RECRUIT-	RECRUIT- CASE ASSESSMENT					
REFERENCE	DESIGN	MENT	DEFINITION	SUBJECTS	TOOLS	RESULTS	AUTHOR'S CONCLUSIONS	
Stein D.	Case studies	Subjects	Aged: 5-12	Total: N = 19	Behavioral measures:	Behavioral measures:	Results	
Psychosocial	compared to	identified	years.		-CBCL*	42% (8 of 19) showed	suggested	
characteristics of	norms on	from files at		With hearing	-TRF*	behavior problems based on	children	
school-age	standardized	various	PTA* .5, 1, 2	loss: N = 19	-RCBP*	the RCBP.	performed	
children with	tests.	clinics,	kHz.*		-PRS*		adequately	
unilateral hearing		agencies,		Controls: N/A	A Total Behavior Problem	Ratings for teachers and	academically and	
losses. J Acad	Systematic	and private	In good ear,		Score was derived for each	parents were not consistent	had good self-	
Rehabil Audiol	investigation of	practices in	≤15 dB* HL.*	19 children 5	child from the CMBC and	for 7 of 19 children.	esteem.	
1983;16:12–22.	specific	the		years, 6	recorded on the RCBP.			
	psychosocial	Louisville	In affected ear,	months-11	Each score was determined	Measures of self-esteem:	Author suggested	
	characteristics,	area.	≥30 dB HL.	years, 7	to be within "clinical" or	All but two children scored	that 8 children	
	such as			months.	"normal" limits established	within the norm.	might have	
	behavior and		UHL for at least		by the authors.		undiagnosed	
	self-esteem,		2 years.			Measures of academic and	language	
	and				Measures of self-esteem:	linguistic skills:	learning	
	measurements		Enrollment in		-Piers-Harris Children's	The children showed scores	problems not	
	of academic		regular		Self-Concept Scale (The	on PRS subscales indicating	related to hearing	
	and linguistic		classroom,		Way I Feel About Myself).	interpersonal and social	loss.	
	skills of		child has no			adjustment problems.		
	children with		known learning		Measures of academic and	37% (N = 7) scored below		
	UHL.*		disabilities or		linguistic skills:	acceptable levels.		
			other		-CELF*	5 of 7 rated by parents and/or		
	Research		educational,		-PRS	teachers as having excessive		
	Objective:		mental, or			behavior problems on CBCL.		
	To clarify some		physical		"in lieu of formal tests of	Data showed better class		
	possible effects		handicaps.		intelligence and school	performance associated with		
	of UHL on				achievementteacher	fewer behavioral problems.		
	classroom		2/3 children		judgments of children's	8 children referred for		
	learning, social		with UHL had		classroom performance and	language screening on basis		
	adjustment,		right ear loss.		intellectual status were	of low scores on one or more		
	development of		000/ 1		obtained using a Teacher's	of the subscales on PRS.		
	peer		68% had		Information Sheet."			
	relationships,		severe-to-			Demographic Variables:		
	and vocational		profound			No differences.		
	achievement.		losses.					

^{*} UHL = unilateral hearing loss; PTA = pure tone average; kHz = kilohertz; dB = decibel; HL = hearing level; CBCL = Child Behavior Checklist; TRF = Teacher's Report Form; RCBP = Revised Child Behavior Profiles; PRS = Myklebust Pupil Rating Scale Revised; CELF = Clinical Evaluation of Language Function Screening Test

MILD AND UNILATERAL HEARING LOSS: PSYCHOSOCIAL

REFERENCE	DESIGN	RECRUIT- MENT	CASE DEFINITION	SUBJECTS	ASSESSMENT TOOLS	RESULTS	AUTHOR'S CONCLUSIONS
Watkin P,	Questionnaire/case	Waltham	Permanent hearing	Total: N =	Questionnaire.	25% of children with	Early
Baldwin M,	study; observational.	Forest Health	losses were	171		permanent hearing loss	identification of
Laoide S.		Authority in	classified according			identified as a result of	hearing loss
Parental	The Waltham Forest	East London.	to the British	With		parental concern; 60% of	through both
suspicion and	Health Authority sent		Society of	permanent		children with permanent	parental vigilance
identification of	questionnaires to all	From 1973-	Audiology	hearing loss:		hearing loss identified	and sensitive
hearing	parents of children	1988 the	recommendations:	N = 171		through screening; 15%	hearing
impairment.	referred for	Waltham				noticed by a person other	screening
Arch Dis Child.	audiologic services,	Forest Health	Mild bilateral: 21–	Bilateral N =		than parent.	programs should
1990;65(8):846	including the	Authority	40 dB* HL* (N =	111		·	continue.
– 50.	question, "'Do you	collected	39).			Parental suspicion noted in	
	think your child has	information on	,	Unilateral		30% of children with	The probability of
	any problem with	audiologic	Moderate bilateral:	N = 60		unilateral hearing loss, 19%	a parent
	his/her hearing?"	referrals and	41–70 dB HL (N =			for mild or moderate	suspecting a
		assessments	33).	Controls: N/A		bilateral loss, and 26% with	hearing loss
	Sensitivity of parental	on children with	,			severe or profound bilateral	increases as the
	suspicion was	permanent	Severe bilateral:	All lived in		loss.	child's age
	calculated by	hearing loss.	71–95 dB HL (N =	the district in			increases, but the
	percentage of		17).	1989 and		Screening responsible for	sensitivity of
	parents who correctly		,	were born		identification of 57% of	parental
	identified hearing loss		Profound bilateral:	after January		children with unilateral	suspicion even in
	before audiologic		>95 dB HL (N =	1973.		hearing loss, 71% of mild or	older preschool
	assessment divided		22).			moderate bilateral hearing	children was less
	by all children		,			loss, and 46% of children	than 50%.
	diagnosed with		Unilateral: >55 dB			with severe or profound	
	hearing loss.		HL in one ear (N =			bilateral loss.	
	, was a second		60).				
	Research Objective:		,			Person other than parent	
	To measure the					noticed hearing loss for	
	contribution that					13% of children with	
	parental suspicion					unilateral loss, 10% of mild	
	has made in the					or moderate bilateral loss,	
	identification of					and 28% with severe or	
	childhood deafness.					profound bilateral loss.	

^{*} dB = decibel; HL = hearing level