Appendix 5 (as supplied by authors): Characteristics of 26 studies of diagnostic tests on dizziness feasible in primary care

Study, year (Reference)	Analysed participants, n (women, %)	Age mean, y (range, y)	Study Entry and Inclusion Criteria	Setting	Target condition	Index test	Reference standard
PSYCHIATRY, PS	sychogenic dizzin	ess		•	•	•	
Persoons et al., 2003 (43)	97(66)	48 (18–75)	Random sample of dizzy patients referred to otorhino-	Outpatient tertiary academic clinic, Belgium	Major Depressive Disorder Panic Disorder	Depression part Patient Health Questionnaire Panic disorder part	MINI interview
			laryngologist			Patient Health Questionnaire	
NEURO-OTOLOG	βY						
Questionnaires					T		
†Kentala and Rauch, 2003 (36)	57 (74)	47 (20–78)	Consecutive patients with dizziness	Outpatient tertiary clinic, United States of America	Vertigo	Dizziness questionnaire	Diagnosis after clinical evaluation
López-Escámez et al., 2000 (37)	100 (65)	NR	Non-selected (no details) patients with dizziness or vertigo	Outpatient clinic, Spain	Ménière's disease	Structured Questionnaire of Vertigo	Criteria Ménière's disease of the American Academy of Otolaryngology, Head and Neck Surgery after 10 months follow-up
von Brevern et al., 2006 (24)	61 (51)	NR (18-60+)	Consecutive patients with dizziness	Outpatient tertiary clinics, Germany	Benign Paroxysmal Positional Vertigo (BPPV)	Vestibular vertigo questionnaire	Dix-Hallpike maneuver and/or diagnosis after clinical evaluation
Whitney et al., 2005 (48)	373 (64)	61 (15-95)	Non-selected (no details) patients with balance and/or vestibular disorder	Outpatient academic (physical therapy) clinic, United States of America	BPPV	DHI BPPV subscore, 5 items DHI BPPV subscore, 2 items	Dix-Hallpike maneuver
Symptoms and s	igns		•		•		
Chan, 2008 (27)	88 (52)	79 (median) (33-90)	Consecutive patients with dizziness not fulfilling exclusion criteria	Outpatient tertiary? clinic, China	BPPV	Spinning Episodic Positional Nausea/Vomiting	Dix-Hallpike and side-lying maneuver
Dix-Hallpike man	euver						•
‡Cohen, 2004 (29)	29 (NR)	NR (NR)	Selected patients with vertigo provoked by head movements and referred for vestibular testing	Outpatient tertiairy academic clinic, United States of America	BPPV	Dix-Hallpike maneuver	Batttery of vestibular tests
Norré, 1994 (41)	85 (61)	54 (14-87)	Selected patients with vertigo provoked by head movements	Outpatient academic clinic, Belgium	BPPV	Dix-Hallpike maneuver	Batttery of vestibular tests
Side-lying maneu	uver	ı		ı			•
‡Cohen, 2004 (29)	29 (NR)	NR (NR)	Selected patients with vertigo provoked by head movements and referred for vestibular testing	Outpatient tertiairy academic clinic, United States of America	BPPV	Side-lying maneuver	Batttery of vestibular tests
Head shaking ny	stagmus	l	voolibulai testiliy	America	l	1	

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Burgio et al., 1991 (25)	115 (NR)	NR (NR)	Non-selected (no details) referred dizzy patients	Outpatient academic clinic, United States of America	Peripheral vestibular dysfunction	Head shaking nystagmus	Caloric tests and ENG
Fujimoto et al., 1993 (30)	1364 (58)	48 (8–91)	Consecutive patients during routine ENG testing (no details)	Outpatient academic clinic, Canada	Peripheral vestibular dysfunction	Head shaking nystagmus	>20% difference in R/L caloric testing
Goebel and Garcia, 1992 (31)	214 (NR)	55 (median) (9 – 83)	Randomly selected dizzy patients	Outpatient tertiary clinic, United States of America	Peripheral vestibular dysfunction	Head shaking nystagmus	Caloric tests
‡Guidetti et al., 2006 (32)	661 (65)	55 (14-80)	Non-selected (no details) patients with and without vertigo	Outpatient tertiary academic clinic, Italy	Peripheral vestibular dysfunction	Head shaking nystagmus	Caloric tests
‡Harvey et al., 1997 (34)	105 (67)	52 (13–87)	Consecutive dizzy patients	Outpatient tertiary academic clinic, United States of America	Peripheral vestibular dysfunction	Head shaking nystagmus	Caloric tests
Jacobson et al., 1990 (35)	116 (NR)	NR (NR)	Consecutive dizzy patients referred for balancae testing	Outpatient clinic, United States of America	Peripheral vestibular dysfunction	Head shaking nystagmus	Battery of vestibular tests
‡Mandala et al., 2008 (38)	65 (37)	54 (13-84)	Selected patients with vestibular neuritis	Outpatient academic clinic, Italy	Peripheral vestibular dysfunction (vestibular neuritis)	Head shaking nystagmus	Caloric tests
Tseng and Chao, 1997 (45)	258 (62)	NR (14–79)	Consecutive patients with dizziness or vertigo	Outpatient academic clinic, Taiwan	Peripheral vestibular dysfunction	Head shaking nystagmus	Caloric tests with ENG
Vicini et al., 1989 (46)	277 (53)	47 (6-83)	No details about study entry; Referred patients with vestibular and/or neurological complaints	Outpatient (academic) clinics, Italy	Peripheral vestibular dysfunction Central vestibular dysunction	Head shaking nystagmus	Battery of vestibular tests
Head impulse tes	st	I	1		dysunction		
Beynon et al., 1998 (23)	150 (NR)	51 (13-76)	No details about study entry; Patients with balance disorder	Outpatient clinics, United Kingdom of Great Britain	Peripheral vestibular dysfunction	Head impulse test	Caloric test
Cnyrim et al, 2008 (28)	83 (53)	53 (NR)	Selected patients with vertigo, nystagmus and postural imbalance	Outpatient academic clinics, Germany and United States of America	Peripheral vestibular dysfunction (vestibular neuritis) Central vestibular dysunction	Head impulse test	Caloric tests with ENG and cranial MRI
Harvey et al., 1996 (33)	112 (65) (224 ears)	53 (13–87)	No details about study entry; dizzy patients	Outpatient academic clinic, United States of America	Peripheral vestibular dysfunction	Head impulse test	Caloric tests
‡Harvey et al., 1997 (34)	105 (67)	52 (13–87)	Consecutive dizzy patients	Outpatient tertiary academic clinic, United States of America	Peripheral vestibular dysfunction	Head impulse test	Caloric tests
‡Mandala et al.,	65 (37)	54	Selected patients with	Outpatient academic	Peripheral	Head impulse test	Caloric tests

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2008 (38)		(13-84)	vestibular neuritis	clinic,	vestibular		
				Italy	dysfunction		
N T.	40 (05)	0.4		(0 1 1' 1) 1 1'	(vestibular neuritis)	11 12 1 1	ENO :
Newman-Toker et al., 2008 (40)	42 (35)	64 (26-92)	Consecutive referred patients with acute vertigo and high	(Outpatient) tertiary academic clinic,	Peripheral vestibular	Head impulse test	ENG or videonystagmography and cranial MRI
et al., 2006 (40)		(26-92)	risk for stroke	United States of	dysfunction		Craniai Mhi
			TISK TOT SHOKE	America	(vestibular neuritis)		
				America	Central vestibular		
					dysunction		
					(brainstem or		
					cerebellar stroke)		
Perez and	265 (50)	50	Non-selected (no details)	Outpatient academic	Peripheral	Head impulse test	Caloric tests
Rama-Lopez,		(NR)	referred patients with vertigo	clinic, Spain	vestibular		
2003 (42)	_				dysfunction		
Vibration induce		F.4	Onlantadoreticota vitta	0	Danishanal	Mile week and the element	O de sie de ste
#Mandala et al.,	64 (37)	54 (13-84)	Selected patients with vestibular neuritis	Outpatient academic clinic,	Peripheral vestibular	Vibration induced	Caloric tests
2008 (38)		(13-64)	vestibular neuntis	Italy	dysfunction	nystagmus	
				italy	(vestibular neuritis)		
Michel et al.,	399 (NR)	NR (NR)	No details about study entry;	Outpatient clinics,	Peripheral	Vibration induced	Caloric tests
2001 (39)	, ,	, ,	Vertiginous patients and non	France	vestibular	nystagmus	
` ,			vertiginous patients		dysfunction	, ,	
Cold mini calorid							
Weinberg and	124 (NR)	NR (NB)	No details about study entry;	Outpatient clinic,	Peripheral	Cold mini caloric test	Clinical diagnosis
Sadé, 1984 (47)		(NR)	Patients with vestibular	Israel	vestibular		
			neuronitis, Menière disease, acoustic tumor or dizziness		dysfunction		
Head heave test			acoustic turnor or dizziness				
‡Mandala et al.,	65 (37)	54	Selected patients with	Outpatient academic	Peripheral	Head heave test	Caloric tests
2008 (38)	(-)	(13-84)	vestibular neuritis	clinic,	vestibular		
, ,		, ,		Italy	dysfunction		
					(vestibular neuritis)		
High-frequency		NB	N I I I I I I I I I I I I I I I I I I I		B : 1	0 111 1 1 1	1510
Burgio et al.,	115 (NR)	NR (ND)	Non-selected (no details)	Outpatient academic	Peripheral	Oscillopsia test	Caloric tests and ENG
1992 (26)		(NR)	referred dizzy patients	clinic, United States of America	vestibular		
Hyperventilation	induced nystag	mus		America	dysfunction		
Robichaud et	38 (66)	53	Selected referred dizzy	Outpatient tertiairy	Peripheral	Hyperventilation-	Caloric tests
al., 2002 (44)	33 (33)	(25-72)	patients with >25% difference	academic clinic.	vestibular	induced nystagmus	
, ==== (• • •)		(== · - /	in R/L caloric testing	Canada	dysfunction		
	24 (54)	58	Patients with acoustic		Central vestibular		Cranial MRI
	` ′	(39-78)	neurinoma		dysunction		
Positional nysta	Ψ				·		
‡Guidetti et al.,	661 (65)	55	Non-selected (no details)	Outpatient tertiary	Peripheral	Positional nystagmus	Caloric tests
2006 (32)		(14-80)	patients with and without	academic clinic, Italy	vestibular	by direct observation	
			vertigo		dysfunction		

†instrument for triage, not diagnostic; ‡the same article with two or more studied tests; NR: not reported