

**Appendix e-2: Studies included in the systematic review**

Citation, Year	Study Design	Study Location	Study Population [disease cohort (seizures), symptom cohort (dizziness / vertigo), combined cohort*]	Sample Size total (n w sx of dizziness or vertigo / n w dx of seizures / n w dx of EDV)	EEG (Surface vs. IntraCranial / ictal vs. interictal)	Imaging† Fraction imaged (n_CT / n_MRI / n_mixed)	Vestibular evaluation‡	Study Design Issues/Notes
Ahmed, 1980 <sup>1</sup>	Single CR	Neurology, hospital	Combined cohort	1 (-/-/1)	1/1 (S/interictal)	NA	Complete	
D'Agostino et al., 1997 <sup>2</sup> §	Retrospective CS	ENT, hospital	Symptom cohort (dizziness or vertigo)	282 (272/-/10)	0/282 (-/-)	NA	Complete	Clinical diagnosis of epilepsy only
Al-Asmi et al., 2005 <sup>3</sup>	Retrospective CS	Neurology and Neurosurgery, university hospital	Disease cohort (seizures)	6 (-/5/1)	6/6 (S/interictal)	6/6 (-/6/-)	None	
Alpers, 1960 <sup>4</sup>	Single CR	Neurology, university hospital	Combined cohort	1 (-/-/1)	1/1 (S/interictal)	NA	None	
Barac, 1968 <sup>5</sup>	Retrospective CS	Neurology, university hospital	Combined cohort	5 (-/1/4)	5/5 (S/interictal)	NA	Complete	
Barba et al., 2007 <sup>6</sup>	Retrospective CS	Neurology and Neurosurgery, university hospital	Disease cohort (seizures)	80 (-/ 76/4)	80/80 (IC/ictal and interictal in all)	80/80 (-/80/-)	None	
Bartolomei et al., 1999 <sup>7</sup>	Single CR	Neurology, university hospital	Combined cohort	1 (-/-/1)	1/1 (S/ictal and interictal)	1/1 (-/1/-)	None	
Bartolomei et al. 2011 <sup>8</sup>	Retrospective CS	Neurology, university hospital	Disease cohort (seizures)	17 (-/13/4)	17/17 (S and IC in all / ictal and interictal in all)	17/17 (-/17/-)	None	
Beauvais et al., 2005 <sup>9</sup>	Retrospective CS	Neurology & Neurosurgery, university hospital	Disease cohort (seizures)	11 (-/9/2)	11/11 (IC/ictal and interictal in all)	11/11 (-/11/-)	None	Not clear if reported aura symptoms and recorded seizures were from same attacks
Behrman,	Retrospective	Neurosurgery,	Combined cohort	39	13/39	NA	NA	Only clinical

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1955 <sup>10</sup>	CS	hospital		(-/39)	(S/interictal)			diagnosis of epilepsy in 26 /39 cases. Numbers and extent of vestibular testing unclear.
Behrman and Wyke, 1958 <sup>11</sup> §	Single CR	Neurosurgery, hospital	Combined cohort	1 (-/1)	1/1 (S/ictal and interictal)	NA	Complete	
Best et al., 2010 <sup>12</sup> §	Single CR	Neurology, university hospital	Combined cohort	1 (-/1)	1/1 (IC/ictal and interictal)	1/1 (-/1-)	Partial	
Beun et al., 1984 <sup>13</sup> §	Retrospective CS	Neurology, hospital	Disease cohort (seizures)	4 (-/3/1)	4/4 (S/ictal and interictal)	3/4 (3/-/-)	None	
Blayney and Colman, 1984 <sup>14</sup>	Retrospective CS	ENT, university hospital	Symptom cohort (dizziness or vertigo)	27 (26-/1)	NA	NA	Complete	Clinical diagnosis of epilepsy only. Numbers for imaging unclear.
Buckley, 1963 <sup>15</sup>	Single CR	Psychiatry, university hospital	Combined cohort	1 (-/1)	1/1 (S/ictal and interictal)	NA	Complete	
Calhoun et al., 1972 <sup>16</sup> §	Retrospective CS	Neurosurgery and Psychiatry, university hospital	Disease cohort (seizures)	6 (-/1/5)	6/6 (S in all, IC in 2 /interictal)	NA	None	
Cantor, 1971 <sup>17</sup>	Single CR	Neurology, university hospital	Combined cohort	1 (-/1)	1/1 (S/ictal and interictal)	NA	Complete	
Choung et al., 2003 <sup>18</sup>	Retrospective CS	ENT, university hospital	Symptom cohort (dizziness or vertigo)	55 (54-/1)	7/55 (S/interictal)	16/55 (5/11/-)	Complete	
Currie et al., 1971 <sup>19</sup> §	Retrospective CS	Neurology and neurosurgery, university hospital	Disease cohort (seizures)	666 (-/540/126)	666/666 (S/interictal)	NA	None	
Desai, 1968 <sup>20</sup>	Retrospective CS	Neurosurgery, hospital	Disease cohort (seizures)	52 (-/34/18)	NA	NA	None	Clinical diagnosis of epilepsy only
Dubeau et al., 1995 <sup>21</sup>	Retrospective CS	Neurology, university hospital	Disease cohort (seizures)	28 (-/25/3)	28/28 (S/ictal in 17, interictal in all)	28/28 (22/28/-)	None	
El-Shafie 2013 <sup>22</sup>	Single CR	General medicine,	Disease cohort (seizures)	1 (-/1)	1/1 (S/interictal)	0/1 (-/-/-)	None	

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		university hospital						
Erbayat Altay et al., 2005 <sup>23</sup>	Single CR	Neurology and Pediatrics, university hospital	Combined cohort	1 (-/-/1)	1/1 (S/ictal and interictal)	1/1 (-/1/-)	None	
Erbek et al., 2006 <sup>24</sup>	Retrospective CS	Pediatric ENT, university hospital	Symptom cohort (dizziness or vertigo)	50 (47/-/3)	NA	1/50 (1/-/-)	Complete	Unclear how many patients received an EEG or cMRI
Erkwoh et al., 1990 <sup>25</sup>	Retrospective CS	Psychiatry, university hospital	Disease cohort (seizures)	1563 (-/1517/46)	1563/1563 (S/interictal)	NA	None	
Eviatar, 1981 <sup>26</sup>	Retrospective CS	Pediatric neurology, university hospital	Symptom cohort (dizziness or vertigo)	20 (15/-/5)	20/20 (S/interictal)	NA	Complete	
Eviatar and Eviatar, 1977 <sup>27</sup>	Retrospective CS	Pediatric neurology and ENG, university hospital	Symptom cohort (dizziness or vertigo)	50 (25/-/25)	50/50 (S/interictal)	NA	Complete	
Eviatar et al., 1986 <sup>28</sup>	Retrospective CS	Pediatric Neurology, university hospital	Symptom cohort (dizziness or vertigo)	22 (18/-/4)	22/22 (S/interictal)	22/22 (22/-/-)	Complete	
Fried et al., 1995 <sup>29</sup>	Retrospective CS	Neurosurgery and Neurology, university hospital	Disease cohort (seizures)	90 (-/76/14)	90/90 (S or IC, numbers unclear / interictal)	90/90 (-/-/90)	None	
Furman et al. 1990 <sup>30</sup>	Single CR	ENT and Neurology, university hospital	Combined cohort	1 (-/-/1)	1/1 (S/ictal and interictal)	1/1 (-/1/-)	Complete	
Gallinat et al., 2003 <sup>31</sup>	Single CR	Psychiatry, university hospital	Combined cohort	1 (-/-/1)	1/1 (S/interictal)	1/1 (-/1/-)	None	
Gandelman et al., 2006 <sup>32</sup>	Single CR	Neurology, university hospital	Combined cohort	1 (-/-/1)	1/1 (S/interictal)	1/1 (-/1/-)	None	
Garcia-Herrero et al., 1998 <sup>33</sup>	Single CR	Neurology, university hospital	Combined cohort	1 (-/-/1)	1/1 (S/ictal and interictal)	1/1 (-/1/-)	None	
Gowers,	Retrospective	Neurology,	Disease cohort	1000	NA	NA	None	Clinical diagnosis of

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1881 <sup>34</sup> §	CS	university hospital	(seizures)	(-/910/90)				epilepsy only
Guclu et al., 2010 <sup>35</sup>	Single CR	Neurosurgery, university hospital	Combined cohort	1 (-/-/1)	NA	1/1 (-/1/-)	None	Clinical diagnosis of epilepsy only
Herr et al., 1989 <sup>36</sup>	Retrospective CS	Emergency medicine, university hospital	Symptom cohort (dizziness or vertigo)	125 (122/-/3)	3/125 (S/interictal)	NA	None	
Heuser et al., 2011 <sup>37</sup>	Retrospective CS	Neurology, university hospital	Disease cohort (seizures)	207 (-/190/17)	207 / 207 (S/interictal)	207/207 (-/207/-)	None	
Hewett et al., 2011 <sup>38</sup>	Retrospective CS	Neurology, university hospital	Combined cohort	14 (-/-/14)	14/14 (S in all / interictal in all, ictal in 1)	14/14 (-/14/-)	None	
Hochman, 1983 <sup>39</sup> §	Single CR	Neurology, university hospital	Combined cohort	1 (-/-/1)	1/1 (S/interictal)	1/1 (1/-/-)	None	
Hsieh 1996 <sup>40</sup>	Single CR	Neurology, hospital	Disease cohort (seizures)	1 (-/-/1)	1/1 (S/interictal)	1/1 (-/1/-)	None	
Hughes and Drachman, 1977 <sup>41</sup>	Retrospective CS	Neurology, university hospital	2 cohorts (symptom cohort and disease cohort)	145 (97/16/32)	145/145 (S/interictal)	NA	Partial	
Isaradisakul et al., 2010 <sup>42</sup>	Retrospective CS	ENT, university hospital	Symptom cohort (dizziness or vertigo)	547 (546/-/1)	1/547 (S/interictal)	NA	Partial	Unclear which patients received which vestibular tests
Janszky et al., 2004 <sup>43</sup>	Prospective CS	Psychiatry and Neurology, university hospital	Disease cohort (seizures)	113 (-/96/17)	NA	113/113 (-/113/-)	None	There is no information about EEG recordings and associated findings reported
Kim et al., 2004 <sup>44</sup>	CS, likely retrospective	Neurology and Neurosurgery, university hospital	Disease cohort (seizures)	40 (-/36/4)	40/40 (S in all and IC in 27 /ictal and interictal in all)	40/40 (-/40/-)	None	Although ictal EEGs were recorded, it is unclear if aura symptoms reported were from seizures that were confirmed by ictal EEG recordings
Kim et al., 2013 <sup>45</sup>	Single CR	Pediatric and ENT university hospital	Combined cohort	1 (-/-/1)	1/1 (S/ictal and interictal)	1/1 (-/1/-)	Complete	

Kluge et al., 2000 <sup>46</sup>	Single CR	Neurology, university hospital	Combined cohort	1 (-/-/1)	1/1 (S/ictal and interictal)	1/1 (-/1/-)	None	
Kocher et al., 1999 <sup>47</sup>	Single CR	Neurology, hospital	Combined cohort	1 (-/-/1)	1/1 (S/ictal and interictal)	1/1 (-/1/-)	None	
Kogeorgos et al., 1981 <sup>48</sup>	Retrospective CS	Neurology, university hospital	Combined cohort	30 (-/-/30)	30/30 (S/interictal)	5/30 (-/-/5)	Complete	
Lennox and Cobb, 1933 <sup>49</sup> §	Retrospective CS	Neurology, university hospital	Disease cohort (seizures)	1527 (-/1400/127)	NA	NA	None	Clinical diagnosis of epilepsy only
Levy and O'Leary, 1947 <sup>50</sup> §	Retrospective CS	Neurology, university hospital	Symptom cohort (dizziness or vertigo)	8 (7/-/1)	2/8 (S/interictal)	NA	Complete	
Lopez et al., 2010 <sup>51</sup>	Single CR	Neurology, university hospital	Combined cohort	1 (-/-/1)	1/1 (S/interictal)	1/1 (-/1/-)	None	
Macrae, 1960 <sup>52</sup>	Retrospective CS	Neurology, university hospital	Symptom cohort (dizziness or vertigo)	400 (356/-/44)	NA	NA	Complete	Clinical diagnosis of epilepsy only
Maillard et al., 2004 <sup>53</sup>	Retrospective CS	Neurology, university hospital	Disease cohort (seizures)	55 (-/49/6)	55/55 (S and IC in all / ictal and interictal in all)	55/55 (-/55/-)	None	
Michelucci et al., 2004 <sup>54</sup>	Prospective CS	Neurology, university hospital	Disease cohort (seizures)	3 (-/1/2)	3/3 (S/ictal in 1, interictal in all)	3/3 (1/2/-)	None	
Michelucci et al., 2013 <sup>55</sup>	Retrospective CS	Neurology, university hospital	Disease cohort (seizures)	127 (-/110/17)	77/127 (S in all/ ictal in 1, interictal in 77)	66/127 (-/66/-)	None	
Montavont et al., 2013 <sup>56</sup>	Retrospective CS	Neurology, university hospital	Disease cohort (seizures)	4 (-/1/3)	4/4 (S and IC in all/ ictal and interictal in all)	4/4 (-/4/-)	None	
Nakken et al., 2009 <sup>57</sup>	Prospective CS	Neurology, university hospital	Disease cohort (seizures)	1897 (-/1822/75)	1897/1897 (S/interictal)	NA	None	
Navi et al.,	Retrospective	Neurology,	Symptom cohort	907	NA	356/907	Partial	

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2012 <sup>58</sup>	CS	university hospital	(dizziness or vertigo)	(903/-/4)		(252/104/-)		
Nicita et al., 2010 <sup>59</sup>	Single CR	Pediatric Neurology, university hospital	Combined cohort	1 (-/-/1)	1/1 (S/ictal and interictal)	1/1 (-/1/-)	Complete	
Niedermeyer and Hinchcliffe, 1965 <sup>60</sup>	Prospective CS	Psychiatry and ENT, university hospital	Symptom cohort (dizziness or vertigo)	70 (70/-/-)	70/70 (S/interictal)	NA	Partial	
Nsamba, 1972 <sup>61</sup>	Retrospective CS	ENT, hospital	Symptom cohort (dizziness or vertigo)	100 (95/-/5)	NA	NA	Complete	Clinical diagnosis of epilepsy only
Nyame 1994 <sup>62</sup>	CS, likely retrospective	Neurology, university hospital	Disease cohort (seizures)	80 (-/68/12)	80/80 (S/interictal)	0/80 (-/-/-)	None	
Ojala et al., 1988 <sup>63</sup>	Prospective CS	Neurology, university hospital	Symptom cohort (dizziness or vertigo)	142 (139/-/3)	142/142 (S/interictal)	117/142 (56/32/29)	Partial	
Palmini and Gloor 1992 <sup>64</sup>	Prospective and retrospective CS	Neurology, university hospital	Disease cohort (seizures)	179 (-/172/7)	179/179 (S in 179 and IC in 41 /ictal and interictal)	105/179 (33/72/-)	None	
Pedersen and Jepsen, 1956 <sup>65</sup>	Retrospective CS	ENT and Neurology, university hospital	Combined cohort	22 (-/-/22)	22/22 (S/interictal)	NA	Complete	
Peppercorn et al., 1989 <sup>66</sup>	Retrospective CS	Neurology and medicine, university hospital	Disease cohort (seizures)	10 (-/8/2)	10/10 (S/interictal)	10/10 (10/-/-)	None	
Pisano et al., 2005 <sup>67</sup>	Retrospective CS	Pediatric Neurology and Psychiatry, university hospital	Disease cohort (seizures)	9 (-/6/3)	5/9 (S/interictal)	5/9 (3/2/-)	None	
Ravid et al., 2003 <sup>68</sup> §	Retrospective CS	Pediatric neurology, hospital	Symptom cohort (dizziness or vertigo)	62 (60/-/2)	12/62 (S/interictal)	55/62 (-/-/55)	Partial	
Ravindran, 1978 <sup>69</sup>	Single CR	Neurology, private practice	Symptom cohort (dizziness or vertigo)	1 (-/-/1)	1/1 (S/interictal)	1/1 (1/-/-)	None	Correct study location needs update!
Salanova et	Retrospective	Neurology and	Disease cohort	42	39/42	15/42	None	

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al., 1992 <sup>70</sup> §	CS	Neurosurgery, university hospital	(seizures)	(-/41/1)	(S in all, IC in 6/ictal in 26, interictal in all)	(8/7/-)		
Salanova et al. 1995 <sup>71</sup>	Retrospective CS	Neurology and Neurosurgery, university hospital	Disease cohort (seizures)	82 (-/73/9)	66/82 (S/ictal in 36, interictal in 66)	79/82 (-/-/79)	None	
Schneider et al., 1968 <sup>72</sup> §	Retrospective CS	Neurosurgery and psychiatry, university hospital	Disease cohort (seizures)	46 (-/40/6)	6/46 (S in all, IC in 3 /interictal)	NA	None	
Shrestha 2013 <sup>73</sup>	Single CR	Neurosurgery, university hospital	Disease cohort (seizures)	1 (-/-/1)	1/1 (S/interictal)	1/1 (-/1/-)	None	Clinical diagnosis of epilepsy only as EEG was normal
Smith, 1960 <sup>74</sup> §	Retrospective CS	Neurology, university hospital	Combined cohort	120 (-/-/120)	NA	NA	None	Clinical diagnosis of epilepsy only
Soslow, 1984 <sup>75</sup>	Single CR	Emergency medicine, hospital	Combined cohort	1 (-/-/1)	1/1 (S/interictal)	1/1 (1/-/-)	None	
Specchio et al., 2011 <sup>76</sup>	Retrospective CS	Neurology, university hospital	Disease cohort (seizures)	4 (-/2/2)	4 / 4 (S/interictal)	2/4 (-/2/-)	Partial in 1, none in 3	
Tartara et al., 1984 <sup>77</sup>	Retrospective CS	Neurology, university hospital	Disease cohort (seizures)	29 (-/16/13)	29/29 (S/interictal)	NA	Complete	
Taylor and Lochery, 1987 <sup>78</sup> §	Retrospective CS	Psychiatry, university hospital	Disease cohort (seizures)	88 (-/83/5)	NA	NA	None	Clinical diagnosis of epilepsy only
Thibodeau et al., 1997 <sup>79</sup>	Single CR	Emergency medicine, hospital	Combined cohort	1 (-/-/1)	1/1 (S/ictal and interictal)	0/1 (-/-/-)	None	
Weber et al., 2006 <sup>80</sup> §	Retrospective CS	Neurology, university hospital	Disease cohort (seizures)	2 (-/-/2)	2/2 (S/ictal and interictal)	2/2 (-/2/-)	None	
Weintraub and Smith, 1969 <sup>81</sup>	Retrospective CS	Neurology, university hospital	Combined cohort	8 (-/-/8)	8/8 (S/interictal)	NA	None	
Wiest et al., 2004 <sup>82</sup>	Single CR	Neurology and Neurosurgery, university hospital	Combined cohort	1 (-/-/1)	1/1 (IC/ictal and interictal)	1/1 (-/1/-)	Complete	

Winawer et al., 2000 <sup>83</sup>	Retrospective CS	Public health and Neurology, university hospital	Disease cohort (seizures)	11 (-/10/1)	10/11 (S/interictal)	3/11 (3/-/-)	None	
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\* Studies assigned to the combined cohort included patients only if both a diagnosis of seizures and a complaint of dizziness or vertigo was present.

† “Mixed” indicates that patients received either cMRI, CCT or SPECT but that individual numbers were not clear.

‡ Type of vestibular evaluation: complete = evaluation by a subspecialist neuro-otologist or specific description of testing that includes Frenzel goggles, positional testing, and calorics or head impulse testing of the vestibulo-ocular reflex; partial = any mentioning of neuro-otological testing short of “complete”; none = no mentioning of any testing for vestibular disorders

§ Obtained through hand search of the reference lists of selected articles.

Abbreviations: CS = case series; CR = case report; cCT = cranial computer tomography; cMRI = cranial magnetic resonance imaging; ED = emergency department; EDV = epileptic dizziness or vertigo; NA = not applicable

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