

Compilation of FREE Access Information:  
BENIGN PAROXYSMAL POSITIONAL VERTIGO

*Compiled by: Maria D. Dominguez, SPT*

*Oversight provided by: Jeff Walter PT, DPT, NCS*

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A. General information:

- <http://www.dizziness-and-balance.com/disorders/bppv/bppv.html>
- [http://vestibular.org/images/pdf/Benign Paroxysmal Positional Vertigo BPPV\\_VEDApubR5.pdf](http://vestibular.org/images/pdf/Benign%20Paroxysmal%20Positional%20Vertigo%20BPPV_VEDApubR5.pdf)
- **Benign Paroxysmal Positional Vertigo.** David Solomon. *Current Treatment Options in Neurology*. 2000, 2:417–427.  
<http://www.med.upenn.edu/solomon/images/BPPV.pdf>
- **Benign Paroxysmal Positional Vertigo.** Seung-Han Lee, MD and Ji Soo Kim, MD, PhD. *J Clin Neurol*. 2010 June; 6(2): 51–63.  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2895225/>
- **Benign Paroxysmal Positional Vertigo: An Overview.** Boniver R. *Int Tinnitus J*. 2008; 14(2):159-167. [http://www.tinnitusjournal.com/detalhe\\_artigo.asp?id=33](http://www.tinnitusjournal.com/detalhe_artigo.asp?id=33)
- **Benign Paroxysmal Positional Vertigo (BPPV): History, Pathophysiology, Office Treatment and Future Directions.** Jeremy H. *International Journal of Otolaryngology*. Volume 2011 (2011).  
<http://www.hindawi.com/journals/ijol/2011/835671/>
- **Fluid–particle dynamics in canalithiasis.** Dominik Obrist and Stefan Hegemann. *J R Soc Interface*. 2008 October 6; 5(27): 1215–1229.  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3226995/?tool=pmcentrez>
- **Clinical Characteristics of Benign Paroxysmal Positional Vertigo in Korea: A Multicenter Study.** So Young Moon, Ji Soo Kim, Byung-Kun Kim, Jae Il Kim,

Hyung Lee, Sung-Il Son, Kyu-Sung Kim, Chung-Ku Rhee, Gyu-Cheol Han, and Won-Sang Lee. *J Korean Med Sci*. 2006 June; 21(3): 539–543.  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2729964/?tool=pmcentrez>

B. Epidemiology:

- **Epidemiology of benign paroxysmal positional vertigo: a population based study.** M von Brevern, A Radtke, F Lezius, M Feldmann, T Ziese, T Lempert, H Neuhauser. *J Neurol Neurosurg Psychiatry*. 2007; 78:710-715.  
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- **New epidemiological findings on benign paroxysmal positional vertigo.** H S Cohen. *J Neurol Neurosurg Psychiatry*. 2007 July; 78(7): 663.  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2117669/?tool=pmcentrez>

C. Guidelines:

- **Practice parameter: therapies for benign paroxysmal positional vertigo (an evidence-based review): report of the Quality Standards Subcommittee of the American Academy of Neurology.** Fife TD, Iverson DJ, Lempert T, Furman JM, Baloh RW, Tusa RJ, Hain TC, Herdman S, Morrow MJ, Gronseth GS, Quality Standards Subcommittee, American Academy of Neurology. *Neurology*. 2008 May 27;70(22):2067-74 <http://www.guidelines.gov/content.aspx?id=12940>
- **Clinical practice guideline: Benign paroxysmal positional vertigo.** N Bhattacharyya. *Otolaryngology–Head and Neck Surgery* (2008) 139, S47-S81  
<http://www.entnet.org/Practice/upload/BPPV-Els.pdf>
- **Benign Paroxysmal Positional Vertigo: comparison of two recent international guidelines.** *Brazilian Journal of Otorhinolaryngology*. 2011 April; 77(2):4126.  
[http://www.rborl.org.br/conteudo/acervo/print\\_acervo\\_english.asp?id=4126](http://www.rborl.org.br/conteudo/acervo/print_acervo_english.asp?id=4126)

D. Predisposition of BPPV:

- **Is Posttraumatic Benign Paroxysmal Positional Vertigo Different From the Idiopathic Form?** Carlos R. Gordon, Ronen Levite, Vitaly Joffe, Natan Gadoth. *Arch Neurol*. 2004; 61:1590-1593. <http://archneur.ama-assn.org/cgi/content/full/61/10/1590>
- **Benign paroxysmal positional vertigo as a complication of sinus floor elevation.** Moon-Sun Kim, Jae-Kwan Lee, Beom-Seok Chang, Heung-Sik Um. *Periodontal Implant Sci*. 2010 April; 40(2): 86–89.  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2872812/?tool=pmcentrez>
- **Inner Ear Disease and Benign Paroxysmal Positional Vertigo: A Critical Review of Incidence, Clinical Characteristics, and Management.** M. Riga, A.

Bibas, J. Xenellis, S. Korres. *Int J Otolaryngol*. 2011; 2011: 709469.  
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- **Iatrogenic benign paroxysmal positional vertigo: review and personal experience in dental and maxillo-facial surgery.** G Chiarella, G Leopardi, L De Fazio, R Chiarella, C Cassandro, E Cassandro. *Acta Otorhinolaryngol Ital*. 2007 June; 27(3): 126–128.  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2640043/?tool=pmcentrez>
- **Benign paroxysmal positional vertigo predominantly affects the right labyrinth.** M von Brevern, T Seelig, H Neuhauser, T Lempert. *J Neurol Neurosurg Psychiatry* 2004; 75:1487–1488.  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1738771/pdf/v075p01487.pdf>
- **Clinical analysis of benign paroxysmal positional vertigo secondary to Meniere's disease.** Peng Li, Xiang-li Zeng, Yongqi Li, Ge-hua Zhang and Xue-kun Huang. *Scientific Research and Essays*. Vol. 5(23), pp. 3672-3675, 4 December, 2010.  
<http://www.academicjournals.org/sre/PDF/pdf2010/4Dec/Li%20et%20al.pdf>

## E. Characteristic Nystagmus

### Posterior canal BPPV

- BPPV Nystagmus during Dix Hallpike Maneuver:
  - <http://www.youtube.com/watch?v=rtS2muvjFbM>
- Left posterior canal- Upbeating, left torsional nystagmus:
  - <http://www.youtube.com/watch?v=NT4jD8Y7HFw>
  - <http://www.youtube.com/watch?v=NT4jD8Y7HFw&NR=1&feature=endscreen>
- Right posterior canal- Upbeating, right torsional nystagmus:
  - <http://www.youtube.com/watch?v=tXNckF5IlyU&feature=endscreen&NR=1>
  - <http://www.youtube.com/watch?v=tXNckF5IlyU>
  - <http://www.youtube.com/watch?v=4afQwZyb9e4>
  - <http://www.youtube.com/watch?v=Bfp6YoojqWA&NR=1&feature=endscreen>

### Horizontal canal BPPV

- Geotropic nystagmus canalolithiasis:
  - <http://www.youtube.com/watch?v=ZWnuAbBdKD0>
  - [http://www.youtube.com/watch?v=f3lpS\\_IrnQE](http://www.youtube.com/watch?v=f3lpS_IrnQE)
  - <http://www.youtube.com/watch?v=MtmkD5rDU0o>
  - [http://www.youtube.com/watch?v=f3lpS\\_IrnQE&feature=related](http://www.youtube.com/watch?v=f3lpS_IrnQE&feature=related)
- Ageotropic nystagmus canalolithiasis:

- <http://www.youtube.com/watch?v=L-51fusy1yI>
- <http://www.youtube.com/watch?v=PNSK8q40ax0>

**BPPV related movies:**

- <http://www.dizziness-and-balance.com/sitedvd.htm>

F. Diagnosis:

- **Diagnosis and management of benign paroxysmal positional vertigo (BPPV)** Lorne S. Parnes, Sumit K. Agrawal, Jason Atlas. *CMAJ*. Sept. 30, 2003; 169 (7). <http://www.ecmaj.ca/content/169/7/681.full.pdf+html>
- **Predictors for benign paroxysmal positional vertigo with positive Dix–Hallpike test.** Kazutaka Noda, Masatomi Ikusaka, Yoshiyuki Ohira, Toshihiko Takada, and Tomoko Tsukamoto. *Int J Gen Med*. 2011; 4: 809–814. <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3233377/>
- **Can GPs diagnose benign paroxysmal positional vertigo and does the Epley manoeuvre work in primary care?** Sarah Cranfield, Ian Mackenzie, and Mark Gabbay. *Br J Gen Pract*. 2010 September 1; 60(578): 698–699. <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2930235/?tool=pmcentrez>

G. Management

- **Clinical Management of a Patient with Chronic Recurrent Vertigo Following a Mild Traumatic Brain Injury.** Eric G. Johnson. *Case Reports in Medicine* Volume 2009 (2009). <http://www.hindawi.com/journals/crim/2009/910596/>
- **Canalith Repositioning Variations for Benign Paroxysmal Positional Vertigo.** Helen S. Cohen, EdD, OTR and Haleh Sangi-Haghpeykar, PhD. *Otolaryngol Head Neck Surg*. 2010 September; 143(3): 405–412. <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2925299/?tool=pmcentrez>
- **The Effect of Early Canalith Repositioning on Benign Paroxysmal Positional Vertigo on Recurrence.** Youn-Kyoung Do, MD, Jin Kim, MD, Chong Yoon Park, MD, Myung-Hyun Chung, In Seok Moon, MD, and Hoon-Shik Yang, MD. *Clin Exp Otorhinolaryngol*. 2011 September; 4(3): 113–117. <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3173700/>
- **Short term efficacy of Epley's manoeuvre: a double blind randomised trial.** M von Brevern, T Seelig, A Radtke, K Tiel-Wilck, H Neuhauser, T Lempert. *Neurol Neurosurg Psychiatry*. 2006 August; 77(8): 980–982. <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2077628/>
- **Practice Parameter: Therapies for benign paroxysmal positional vertigo (an evidence-based review): Report of the Quality Standards Subcommittee of the American Academy of Neurology** T. D. Fife, D. J. Iverson, T. Lempert, et

al. *Neurology* 2008; 70; 2067.  
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- **Efficacy of Treatments for Posterior Canal Benign Paroxysmal Positional Vertigo.** Helen S. Cohen EdD, Jaroslav Jerabek MD. *The Laryngoscope*. Volume 109, Issue 4, pages 584–590, April 1999.  
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- **Efficacy of the Epley maneuver for posterior canal BPPV: a long-term, controlled study of 81 patients.** W Richard, TD Brintjes, P Oostenbrin. *ENT-Ear, Nose & Throat Journal*. January 2005.  
<http://www.entjournal.com/Media/PublicationsArticle/jan-2005-RICHARD.pdf>
- **Effectiveness of Particle Repositioning Maneuvers in the Treatment of Benign Paroxysmal Positional Vertigo: A Systematic Review** Helminski et al. *ptjournal*. 2010; 90:663-678.  
<http://ptjournal.apta.org/content/90/5/663.full>
- **Efficacy of the Semont Maneuver in Benign Paroxysmal Positional Vertigo.** Levrat et al. *Arch Otolaryngol Head Neck Surg*. 2003; 129:629-633.  
<http://archotol.ama-assn.org/cgi/content/full/129/6/629>

#### H. Complications of treatment maneuvers:

- **Residual Dizziness after Successful Repositioning Treatment in Patients with Benign Paroxysmal Positional Vertigo.** Jung Im Seok, Hyo Min Lee, Ji Hoon Yoo, and Dong Kuck Lee. *J Clin Neurol*. 2008 September; 4(3): 107–110.  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2686873/>

#### I. Post maneuvers precautions:

- **The Role of Postural Restrictions after BPPV Treatment: Real Effect on Successful Treatment and BPPV's Recurrence Rates.** GX Papacharalampous. *International Journal of Otolaryngology*. Volume 2012 (2012).  
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#### J. Home treatment of BPPV:

- **Self-treatment of benign paroxysmal positional vertigo: Semont maneuver vs Epley procedure.** Radtke et al. *Neurology*. 2004; 63:150-152.  
<http://www.neurology.org/content/63/1/150.full>
- **Strategies to Prevent Recurrence of Benign Paroxysmal Positional Vertigo.** Janet Odry Helminski, Imke Janssen, Despina Kotaspuikis, Karen Kovacs, Phil Sheldon, Kristin McQueen, Timothy Carl Hain. *Arch Otolaryngol Head Neck Surg*. 2005; 131:344-348. <http://archotol.ama-assn.org/cgi/content/full/131/4/344>

K. Surgical treatment:

- **Surgical Treatment of Vertigo.** Timothy C. Hain, MD.  
<http://www.tchain.com/otoneurology/treatment/surg.html>
- **Surgical therapy in intractable benign paroxysmal positional vertigo**  
Marianne Leveque, Marc Labrousse, Laurent Seidermann, André Chays, Reims, France. *Otolaryngology–Head and Neck Surgery.* (2007) 136, 693-698.  
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L. Differential diagnosis of BPPV:

- **Differential diagnosis of vertigo.** <http://ivertigo.net/vertigo/verdiagnosis.html>
- **Central Oculomotor Disturbances and Nystagmus; A Window Into the Brainstem and Cerebellum.** Michael Strupp, Katharina Hüfner, Ruth Sandman, Andreas Zwergal, Marianne Dieterich, Klaus Jahn, and Thomas Brandt. *Dtsch Arztebl Int.* 2011 March; 108(12): 197–204.  
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- **Diagnostic indices for vertiginous diseases.** Otmar Bayer, Jan-Christian Warninghoff and Andreas Straube. *BMC Neurology.* 2010, 10:98.  
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- **Hyperventilation-induced nystagmus in a large series of vestibular patients.** L. Califano, M.G. Melillo, A. Vassallo, and S. Mazzone. *Acta Otorhinolaryngol Ital.* 2011 February; 31(1): 17–26.  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3146331/?tool=pmcentrez>
- **Post-traumatic dizziness.** Simon William Dubrey and Wojtek Rakowicz. *BMJ Case Rep.* Volume 2010 (2010).  
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- **Acute Vestibulopathy.** Yoon-Hee Cha. *The Neurohospitalist.* 2011 January; 1(1):32-40. <http://nho.sagepub.com/content/1/1/32.full - T1>
- **Vertigo and Dizziness in the Emergency Department.** Kevin A. Kerber. *Emerg Med Clin North Am.* 2009 February; 27(1): 39–viii.  
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<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3096243/?tool=pmcentrez>

## M. Atypical BPPV

- Bilateral posterior canal BPPV
  1. **Bilateral posterior semicircular canal aplasia and atypical paroxysmal positional vertigo: a case report.** LE Walther, V Nath, GA Krombach, and E Di Martino. *Acta Otorhinolaryngol Ital.* 2008 April; 28(2): 79–82.  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2644981/>
- Horizontal canal BPPV:
  1. **Horizontal canal BPPV.**  
<http://www.tchain.com/otoneurology/disorders/bppv/lcanalbppv.htm>
  2. **Why Treat Apogeotropic BPPVs of the Horizontal Canal? About 30 Observations.** Philippe Lorin, Francois Foubert, and Marie Debaty. *Int J Otolaryngol.* Volume 2011 (2011).  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3143428/>
  3. **Biomechanics of horizontal canal benign paroxysmal positional vertigo.** Suhrud M. Rajguru, Marytheresa A. Ifediba, and Richard D. Rabbitt. *J Vestib Res.* 2005; 15(4): 203–214.  
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  5. **Lateral Semicircular Canal Benign Paroxysmal Positional Vertigo diagnostic signs.** G. Asprella-Libonati. *Acta Otorhinolaryngol Ital.* 2010 August; 30(4): 222.  
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  6. **“Secondary signs of lateralization” in apogeotropic lateral canalolithiasis.** L Califano, MG Melillo, S Mazzone, and A Vassallo. *Acta Otorhinolaryngol Ital.* 2010 April; 30(2): 78–86.  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2882145/?tool=pmcentrez>
- Cupulolithiasis and Vestibulolithiasis:
  1. **Cupulolithiasis, Canalithiasis and Vestibulithiasis.**  
<http://www.dizziness-and-balance.com/disorders/bppv/cupulolithiasis.htm>
- Multicanal BPPV:
  1. **Diagnosis of Single- or Multiple-Canal Benign Paroxysmal Positional Vertigo according to the Type of Nystagmus.** Dimitris G. Balatsouras,

George Koukoutsis, Panayotis Ganelis, George S. Korres, and Antonis Kaberos. Volume 2011 (2011)  
<http://www.hindawi.com/journals/ijol/2011/483965/>

N. Brochures:

1. [http://www.dizziness-and-balance.com/disorders/bppv/resources/BPPV\\_brochure.pdf](http://www.dizziness-and-balance.com/disorders/bppv/resources/BPPV_brochure.pdf)