

Title

Neuropathology of dementia in patients with Parkinson's disease: A systematic review of autopsy studies.

Authors

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Supplementary table: Risk of bias assessments

Author (year)	Selection	Detection	Reporting	Overall risk
Aarsland et al. (2005)				
Apaydin et al. (2002)				
Ballard et al. (2006)				
Bancher et al. (1993)				
Braak & Braak (1990)	Unclear			Unclear
Braak et al. (2005)				
Churchyard and Lees (1997)				
Colosimo et al. (2003)				
Compta et al. (2011)				
de la Monte et al. (1989)				
de Vos et al. (1995)	Unclear			
Fujishiro et al. (2010)				
Gaspar and Gray (1984)	Unclear			
Halliday et al. (2011)				
Harding and Halliday (2001)				
Horvath et al. (2013)				
Howlett et al. (2015)	Unclear			
Hughes et al. (1993)				
Hurtig et al. (2000)				
Irwin et al. (2012)				
Jellinger and Attems (2006)				
Jellinger and Attems (2008)				
Jellinger et al. (1991)				
Jellinger et al. (2002)				
Jendroska et al. (1996)				
Kalaitzakis et al. (2009)	Unclear			
Kalaitzakis et al. (2011)				
Kempster et al. (2010)				
Kotzbauer et al. (2012)				
Kövari et al. (2003)				
Libow et al. (2009)	High			High
Mattila et al. (2000)	Unclear			Unclear
Mattila et al. (1999)	Unclear			Unclear
Mattila et al. (1998)	Unclear			Unclear
Nakashima-Yasuda et al. (2007)	High			Unclear
Perry et al. (1985)	Unclear			Unclear
Ruffmann et al. (2016)	Low			Low
Sabbagh et al. (2009)	Unclear			Unclear
Sierra et al. (2016)				
Tsuboi et al. (2007)	Unclear			Unclear
Vermersch et al. (1993)	Unclear			Unclear
Walker et al. (2015)				
Whitehouse et al. (1983)	Unclear			Unclear
Wills et al. (2010)	Low			Low

■ Low □ Unclear ■ High

Supplementary material: Systematic review search strategies

The following search strategies were used to identify relevant articles for the systematic review.

Medline / Embase

1. Parkinson disease/pa [Pathology]
2. Dement*.mp. [mp=ti, ab, hw, tn, ot, dm, mf, dv, kw, fx, nm, kf, px, rx, an, ui, sy]
3. Cogniti*.mp. [mp=ti, ab, hw, tn, ot, dm, mf, dv, kw, fx, nm, kf, px, rx, an, ui, sy]
4. 2 or 3
5. 1 and 4
6. limit 5 to humans
7. remove duplicates from 6

CINAHL using advanced search

S1: (MH “Parkinson Disease/PA)
S2: “Dement*”
S3: “Cogniti*”
S4: SR OR S3
S5: S1 AND S4
Limiters – Human; Exclude MEDLINE records

LILACS

Parkinson* disease AND dement* OR cogniti*
Filters – LILACS, Humans

Cochrane Library using advanced search

- #1 MeSH descriptor: [Parkinson disease] explode all trees with qualifier(s): [Pathology – PA]
- #2 dement*
- #3 cogniti*
- #4 #2 or #3
- #5 #1 and #4

Supplementary material: Potentially relevant articles in other languages

The following articles were excluded from the systematic review during preliminary screening because they were not fully available in English.

- Dubois, B., Hauw, J. J., Ruberg, M., Serdaru, M., Javoy-Agid, F., & Agid, Y. (1985). Dementia and Parkinson's disease: biochemical and anatomo-clinical correlation. *Revue Neurologique*, 141(3), 184-193. [French].
- Iwatsubo, T. (1999). Parkinson's disease, dementia with Lewy bodies, multiple system atrophy and alpha-synuclein. *Rinsho Shinkeigaku – Clinical Neurology*, 39(12), 1285-1286. [Japanese].
- Jansen, E. N., & de Vos, R. A. (1994). Dementia in Parkinson disease: Lewy body disease or Alzheimer's disease? *Nederlands Tijdschrift voor Geneeskunde*, 138(26), 1305-1309. [Dutch].
- Kretzschmar, H. A., & Neumann, M. (2000). Neuropathological diagnosis of neurodegenerative and dementia diseases. *Pathologe*, 21(5), 364-374. [German].
- Yoshimura, M. (1997). Diffuse Lewy body disease. *Rinsho Shinkeigaku – Clinical Neurology*, 37(12), 1134-1136. [Japanese].
- Yoshimura, M., Mori, H., Tomonaga, M., Yamanouchi, H., & Kuzuhara, S. (1984). Loss of neurons in the nucleus basalis of Meynert in Parkinson disease with dementia, "diffuse Lewy body disease" and senile dementia of Alzheimer type. *Nihon Ronen Igakkai Zasshi*, 21(6), 580-587. [Japanese].