



"Thousands of tiny little creatures, some on horseback, waving arms, carrying weapons like some grand Renaissance battle were trying to turn people into zombies. Their leader was a woman with no mouth but a very precisely cut hole in her throat."

-Justin Kaplan - age 84, Pulitzer Prize winning historian and biographer, describing his experience with delirium while being hospitalized for Pneumonia.





- Attività
- 🗖 Unità
- **□** Identità
- Delimitazione





Risk Factor	Number of Studies With Significant Association	Number of Studies With No Significant Association	Total Number of Studies
Age	12	13	25
ducation	4	13	17
iender	7	17	24
thnicity	5	2	7
Age at onset of Alzheimer's			
disease	5	7	12
Duration of illness	8	9	17
Cognitive impairment	20	10	30
Severity of dementia	0	10	10
Family history of dementia Family history of psychiatric	0	4	4
disorder	0	6	6



- Misidentification phenomena
- □ belief that people are stealing things from them, that they are in danger and/or others are planning to harm them, that their spouse and/or other caregiver is an imposter (or not who they say they are), that their house is not their home, that their spouse is having an affair, that their family members are planning to abandon them, that unwelcome guests and/or television figures are actually present in the home

Increased dopaminergic activity represents a 'final common pathway' to delusion formation

- Shared theories regarding delusion formation in AD and schizophrenia
- □ Functional imaging studies
- □ Greater disruption of the cholinergic/dopaminergic axis in delusional patients, particularly those with persecutory delusions
- $\hfill\square$ delusional patients have a more accelerated form of AD



Inouye, Westendorp, Saczynski, Lancet 2013

- Delirium can be thought of as acute brain
- □ might help to shed light on cognitive reserve—ie, the brain's resilience to external factors.
- □ Current thinking is that reserve is dynamic and modifiable over the life course (Jones et al, 2010)

COGNITIVE RESERVE IN NEUROPSYCHIATRIC ILLNESS

- High cognitive reserve may provide resilience to cognitive failure and protect persons by enhancing control over aberrant thoughts.
- low intelligence, disrupted education, lower brain, and intracranial size are associated with risk and/or long-term outcomes of schizophrenia and depression

Barnett et al: Cognitive reserve in neuropsychiatry. Psychol Med 2006

ORIGINAL CONTRIBUTION

Risk Factors for Cognitive Impairment in HIV-1–Infected Persons With Different Risk Behaviors

Diana De Ronchi, MD; Irma Faranca, MD; Domenico Berardi, MD; Paolo Scudellari, MD; Marco Borderi. MD: Roberto Manfredi. MD: Laura Fratielioni. MD. PhD (REPRINTED) ARCH NEUROL/VOL 39, MAY 2002 WWW.ARCHNEUROL.COM

	Odds Ratio (95% CI)	
Risk Factor	Asymptomatic Persons (n = 88)	Symptomatic Persons (n = 94)
Age (for increment of 1 y)	1.0 (0.9-1.1)	1.0 (0.9-1.1)
Female sex	2.2 (0.6-8.3)	1.3 (0.3-6.3)
<6 y of education	5.7 (0.2-130.7)	27.2 (3.8-195.1
Antiretroviral therapy	0.5 (0.1-2.5)	0.0 (0.0-0.2)
emale sex <6 y of education intiretroviral therapy formosexuals/bisexuals	2.2 (0.6-8.3) 5.7 (0.2-130.7) 0.5 (0.1-2.5) 15.7 (3.1-78.9)	1.3 (0.3-1 27.2 (3.8- 0.0 (0.0-1 5.2 (1.1-1

The effect of education on dementia occurrence in an Italian population with middle to high socioeconomic status

D. De Ronchi, MD; L. Fratiglioni, MD, PhD; P. Rueci, DSc; A. Paternicò, MD; S. Graziani, MD; and E. Dalmonte, MD

NEUROLOGY 1998;50:1231-1238

	Prevalence		
	No education	More than 3 years of education	Odds ratio (95% CI)
Age groups (y)			
61-69	3/11	0/186	139.5 (6.4 to 3,024.6)
70-79	6/21	8/154	7.3 (2.2 to 23.9)
80+	15/33	24/90	2.3 (1.0 to 5.3)

Is psychosis a possible risk factor for dementia?

- evidence that patients with psychosis of AD show a more rapid cognitive decline
- \square Is psychosis an early symptom of dementia?
- subjects with late-onset acute and transient psychosis are at 11 times higher risk of subsequently getting a diagnosis of dementia (Kørner et al, 2009)









	OR*
Nondemented without depression	1.0
Nondemented with depression	1.5
Cognitive impairment without depression	11.5
Cognitive impairment with depression	37.4

Fully aOR and 95% CI for cognitive impairment					
		aOR (95% CI)			
	Stroke	1.9 (1.4-2.6)			
Parkinson disease		1.1 (0.5-2.6)			
Depressive symptoms		1.9 (1.4-2.7)			
F	anxiety symptoms	0.7 (0.5-1.1)			
	Hypertension	1.0 (0.7-1.3)			
Cardiovascular disease		1.0 (0.7-1.4)			
	Diabetes	1.6 (1.2-2.2)			
	Underweight	1.7 (0.9-3.0)			
	Normoweight	1			
Atti, et al.	Overweight	1.1 (0.9-1.4)			
J Alzheimer Dis 2010	Obese	1.0 (0.6-1.4)			
		1	21		