

Country, Latitude ^(Ref)	Study period	25OHD assay	Pts (n)	Age (yr)	Mean 25OHD (ng/ml)	Prevalence of severe vitamin D deficiency		Diseases/outcomes associated with vitamin D deficiency
							25OHD cut-off	
<i>Studies including patients of any age</i>								
USA, 42N ⁽¹⁾	Sep 1994 & March 1994	CPBA	290	62 ±12	15 ±9	22%	8 ng/ml	Hypertension, DM
Italy, 41N ⁽¹⁹⁾	Feb 1997	RIA	42	69.6 ±9.9	10.8 ±7.1 ^a	71.4%	10 ng/ml	Length of hospitalization
	July 1997		46	61.6 ±14.7	26.2 ±18.2 ^a	29.8%		
Finland, 60N ⁽²¹⁾	Oct 1998	RIA	106	63 (19-91)	12 (2-33) ^a	23.6%	8 ng/ml	N/D
Israel, 31N ⁽²⁾	Sep 1999 & March 2000	CPBA	293	--	21.1 ±9.7	--		CAD, stroke
Brazil, 30S ⁽²⁰⁾	Oct 2000	RIA	81	59.8 ±17.2	12 ±8.6	33.3%	10 ng/ml	None
Australia, 28-37S ⁽²²⁾	July 2008 to July 2010	CLIA	3812 M	61.4 ±28.3	--	16%	10 ng/ml	N/D
			7027 F	66.3 ±25.4	--	18%		
Denmark, 55N ⁽²³⁾	Feb 2003 to Oct 2008	RIA	3848 F	78.5	--	11.9- 26.4%	10 ng/ml	All-cause mortality after hospitalization (mean follow-up 2.7 yr) ^b
			1299 M	74.2	--	17.4- 33.7%		
<i>Studies including only geriatric patients</i>								
Australia, 37S ⁽²⁴⁾	Nov 2004 to May 2005	RIA	106	81 (74-85)	15.6 ±9.1 ^a	23%	10 ng/ml	N/D
France, 47N ⁽²⁵⁾	June to Nov 2008	--	278	85.6 ±5.9	--	--		Number of acute diseases
France, 47N ⁽²⁶⁾	Jun to Nov 2008	--	288	86.0 ±0.4	14.1 ±0.5	47.9%	10 ng/ml	Dementia
France, 47N ⁽²⁷⁾	Dec 2008 to Sep 2009	RIA	240	86.4 ±0.4	14.1 ±0.7 ^a	42.5%	10 ng/ml	Severity of chronic diseases
France, 47N ⁽²⁸⁾	Jan to Oct 2009	RIA	339	84.5 ±0.5	13.9 ±0.7 ^a	--		In-hospital mortality
France, 48N ⁽²⁹⁾	Jan to Aug 2010	RIA	229	85 (71-104)	--	-		No association with anemia ^c

Supplementary Table Previous studies investigating vitamin D status, as assessed by the concentration of 25-hydroxyvitamin D (25OHD), in patients admitted to general medical or geriatric units.

Only studies which included the totality of subjects hospitalized during the observation period are presented. Gender-specific data are given if the characteristics of the whole patient cohort were not reported in the source paper. Age and concentration of 25(OH)D are given as mean \pm standard deviation, but for ref. (21) and (29), in which only median and range were available.

CBPA, competitive binding protein assay; RIA, radioimmunoassay; CLIA, chemiluminiscent assay.

DM, diabetes mellitus; CAD, coronary artery disease.

^a, values originally reported in nmol/l and converted to ng/ml to allow comparisons (1 ng/ml = 2.49 nmol/l).

^b, this study specifically analyzed the relationship between vitamin D deficiency on admission and long-term mortality.

^c, this study specifically analyzed the relationship between vitamin D deficiency on admission and anemia.

--, data not reported.

N/D, not determined.