

Vitamin D

Literature review

Author:

Nicolas Heureux, PhD

Nicolas.Heureux@diasource.be

Principal Scientist – Vitamin D, DIAsource Immunoassays

DIAsource ImmunoAssays S.A.

Rue du Bosquet, 2 | B-1348 Louvain-La-Neuve | Tel : +32.10.84.99.11 | Fax : +32.10.84.99.90

www.diasource.be



Contents

Vitamin D - Important literature references

1. Clinical	3
2. Measurement of Vitamin D	5
3. Free Vitamin D	6
4. DIAsource products references	12

Author:

Nicolas Heureux, PhD

Nicolas.Heureux@diasource.be

Principal Scientist – Vitamin D, DIAsource Immunoassays

DIAsource ImmunoAssays S.A.

Rue du Bosquet, 2 | B-1348 Louvain-La-Neuve | Tel : +32.10.84.99.11 | Fax : +32.10.84.99.90

www.diasource.be



1. CLINICAL

The quantity of papers on the clinical outcomes of Vitamin D deficiency or supplementation is enormous. Hereafter are presented some of the most pertinent recent papers.

Many references can also be found on <http://www.vitamindcouncil.org/>.

- HOLICK M.F. (2006)
Resurrection of Vitamin D deficiency and rickets.
J. Clin. Invest., 116:2062-2072.
- HOLICK M.F. (2006)
High prevalence of vitamin D inadequacy and implications for health.
Mayo Clin. Proc., 81(3):353-73.
- HOLICK M.F. (2007)
Vitamin D Deficiency.
N. Engl. J. Med., 357:266-281.
- CHUNG M. (2009)
Vitamin D and calcium: a systematic review of health outcomes. Evidence report/technology assessment.
Evid. Rep. Technol. Assess., 183:1-420.
- KULIE T. (2009)
Vitamin D: an evidence-based review.
J. Am. Board Fam. Med., 22(6):698-706.
- PITTAS A.G. (2010)
Vitamin D and Cardiometabolic Outcomes: A Systematic Review.
Ann. Intern. Med., 152(5):307-14.
- AUTIER P. (2013)
Vitamin D status and ill health: a systematic review.
Lancet Diabetes Endocrinol., 2(1):76-89.
- ANGLIN R.E. (2013)
Vitamin D deficiency and depression in adults: systematic review and meta-analysis.
Br. J. Psychiatry, 202:100-107.
- BOLLAND M.J. (2014)
The effect of vitamin D supplementation on skeletal, vascular, or cancer outcomes: a trial sequential meta-analysis.
Lancet Diabetes Endocrinol., 2(4):307-320.

Author:

Nicolas Heureux, PhD

Nicolas.Heureux@diasource.be

Principal Scientist – Vitamin D, DIAsource Immunoassays

DIAsource ImmunoAssays S.A.

Rue du Bosquet, 2 | B-1348 Louvain-La-Neuve | Tel : +32.10.84.99.11 | Fax : +32.10.84.99.90

www.diasource.be



- THEODORATOU E. (2014)
Vitamin D and multiple health outcomes: umbrella review of systematic reviews and meta-analyses of observational studies and randomised trials.
BMJ, 348(7952):12.

Author:

Nicolas Heureux, PhD

Nicolas.Heureux@diasource.be

Principal Scientist – Vitamin D, DIAsource Immunoassays

DIAsource ImmunoAssays S.A.

Rue du Bosquet, 2 | B-1348 Louvain-La-Neuve | Tel : +32.10.84.99.11 | Fax : +32.10.84.99.90

www.diasource.be



2. MEASUREMENT OF VITAMIN D

- WALLACE A.M. (2010)
Measurement of 25-hydroxyvitamin D in the clinical laboratory: Current procedures, performance characteristics and limitations.
Steroids, 75(7):477-88.
- CAVALIER E. (2011)
Cross-reactivity of 25-hydroxy vitamin D2 from different commercial immunoassays for 25-hydroxy vitamin D: an evaluation without spiked samples.
Clin. Chem. Lab. Med., 49(3):555-558.
- CARTER G. (2011)
Accuracy of 25-Hydroxyvitamin D Assays: Confronting the Issues.
Current Drug Targets, 12(1):19-28.
- JANSSEN M.J.W. (2012)
Multicenter comparison study of current methods to measure 25-hydroxyvitamin D in serum.
Steroids, 77:1366-72.
- HEIJBOER A.C. (2012)
Accuracy of 6 Routine 25-Hydroxyvitamin D Assays: Influence of Vitamin D Binding Protein Concentration.
Clin. Chem., 58(3):543-548.
- CARTER, G.D. (2012)
25-Hydroxyvitamin D: A Difficult Analyte.
Clin. Chem., 58(3):486-488.
- HERRMANN, M. (2012)
State-of-the-Art Vitamin D Assays: A Comparison of Automated Immunoassays with Liquid Chromatography-Tandem Mass Spectrometry Methods.
Clin. Chem., 58(3):1-12.
- HEWAVITHARANA, A.K. (2013)
Recent trends in the determination of vitamin D.
Bioanal. 5(24):3063-3078.

Author:

Nicolas Heureux, PhD

Nicolas.Heureux@diasource.be

Principal Scientist – Vitamin D, DIAsource Immunoassays

DIAsource ImmunoAssays S.A.

Rue du Bosquet, 2 | B-1348 Louvain-La-Neuve | Tel : +32.10.84.99.11 | Fax : +32.10.84.99.90

www.diasource.be



3. FREE VITAMIN D

- BIKLE D.D. (1986)
Free 25-Hydroxyvitamin D Levels Are Normal in Subjects with Liver Disease and Reduced Total 25-Hydroxyvitamin D Levels.
J. Clin. Invest., 78:748-752.
- HADDAD J.G. (1986)
Assessment of the Free Fraction of 25-Hydroxyvitamin D in Serum and Its Regulation by Albumin and the VitaminD-Binding Protein.
J. Clin. Endocrinol. Met., 63(4):954-959.
- HOLICK M. (2000)
Decreased bioavailability of vitamin D in obesity.
Am. J. Clin. Nutr., 72:690-693.
- DATTA H.K. (2006)
Assessment of Vitamin D Status in Male Osteoporosis.
Clin. Chem., 52(2):248-254.
- THADHANI R. (2010)
First trimester vitamin D, vitamin D binding protein, and subsequent preeclampsia. Hypertension, 56(4):758-63.
- HEWISON M. (2010)
LIGAND REGULATION AND NUCLEAR RECEPTOR ACTION.
Nuclear Receptors, Proteins and Cell Regulation 8, 381-417.
- THADHANI R. (2011)
Vitamin D-Binding Protein Modifies the Vitamin D-Bone Mineral Density Relationship.
J. Bone Miner. Res., 26(7):1609-1616.
- COYNE D.W. (2012)
Bioavailable vitamin D in chronic kidney disease.
Kidney Int., 82:5-7.
- REESE P.P. (2012)
Changes in vitamin D binding protein and vitamin D concentrations associated with liver transplantation.
Liver Int., 32(2):287-96.
- HEWISON M. (2012)
Vitamin D binding protein and monocyte response to 25-hydroxyvitamin D and 1,25-dihydroxyvitamin D: analysis by mathematical modeling.

Author:

Nicolas Heureux, PhD

Nicolas.Heureux@diasource.be

Principal Scientist – Vitamin D, DIAsource Immunoassays

DIAsource ImmunoAssays S.A.

Rue du Bosquet, 2 | B-1348 Louvain-La-Neuve | Tel : +32.10.84.99.11 | Fax : +32.10.84.99.90

www.diasource.be



PLoS One, 7(1):e30773.

- THADHANI R.I. (2012)
Bioavailable vitamin D is more tightly linked to mineral metabolism than total vitamin D in incident hemodialysis patients.
Kidney Int., 82:84–89.
- SANSOM D.M. (2012)
Availability of 25-Hydroxyvitamin D3 to APCs Controls the Balance between Regulatory and Inflammatory T Cell Responses.
J. Immunol., 189(11):5155-64.
- WEINSTEIN S.J. (2012)
Impact of circulating vitamin D binding protein levels on the association between 25-hydroxyvitamin D and pancreatic cancer risk: a nested case-control study.
Cancer Res., 72(5):1190-8.
- QURAIISHI S.A. (2012)
Vitamin D in acute stress and critical illness.
Curr. Opin. Clin. Nutr. Metab. Care, 15(6):625-34.
- MONDUL A.M. (2012)
British J. Cancer, 107:1589–1594.
Influence of vitamin D binding protein on the association between circulating vitamin D and risk of bladder cancer.
- HEWISON M. (2013)
Measurement of 25-hydroxyvitamin D in the clinical laboratory: Current procedures, performance characteristics and limitations.
Steroids, 75(7):477-88.
- WANG X. (2013)
Vitamin D-binding protein levels in female patients with primary hyperparathyroidism.
Endocr. Pract., 19(4):609-13.
- MOLLER U.K. (2013)
Increased plasma concentrations of vitamin D metabolites and vitamin D binding protein in women using hormonal contraceptives: a cross-sectional study.
Nutrients, 5(9):3470-80.
- BERG I. (2013)
Vitamin D, vitamin D binding protein, lung function and structure in COPD.
Respir. Med., 107(10):1578-88.

Author:

Nicolas Heureux, PhD

Nicolas.Heureux@diasource.be

Principal Scientist – Vitamin D, DIAsource Immunoassays

DIAsource ImmunoAssays S.A.

Rue du Bosquet, 2 | B-1348 Louvain-La-Neuve | Tel : +32.10.84.99.11 | Fax : +32.10.84.99.90

www.diasource.be



-
- GLENDENNING P. (2013)
Calculated free and bioavailable vitamin D metabolite concentrations in vitamin D-deficient hip fracture patients after supplementation with cholecalciferol and ergocalciferol.
Bone, 56:271–275.

 - BIKLE D. (2013)
Variability in free 25(OH) vitamin D levels in clinical populations.
J. Steroid Biochem. Mol. Biol., S0960-0760.

 - DENBURG M.R. (2013)
Vitamin D bioavailability and catabolism in pediatric chronic kidney disease.
Pediatr. Nephrol., 28:1843–1853.

 - THADHANI R. (2013)
Vitamin D-Binding Protein and Vitamin D Status of Black Americans and White Americans.
N. Engl. J. Med., 369(21):1991-2000.

 - BIKLE D. (2013)
Vitamin D3 effects on lipids differ in statin and non-statin-treated humans: superiority of free 25-OH D levels in detecting relationships.
J. Clin. Endocrinol. Metab., 98(11):4400-9.

 - YANG M. (2013)
Vitamin D-binding protein in cerebrospinal fluid is associated with multiple sclerosis progression.
Mol. Neurobiol., 47(3):946-56.

 - JORDE R. (2014)
Serum free and bio-available 25-hydroxyvitamin D correlate better with bone density than serum total 25-hydroxyvitamin D.
Scand. J. Clin. Lab. Invest., 74(3):177-83.

 - KARLSSON T. (2014)
Increased vitamin D-binding protein and decreased free 25(OH)D in obese women of reproductive age.
Eur. J. Nutr., 53:259–267.

 - SCHWARTZ J.B. (2014)
A comparison of direct and calculated free 25(OH) Vitamin D levels in clinical populations.
J. Clin. Endocrinol. Metab., 99(5):1631-7.

 - RANDOLPH A.G. (2014)

Author:

Nicolas Heureux, PhD

Nicolas.Heureux@diasource.be

Principal Scientist – Vitamin D, DIAsource Immunoassays

DIAsource ImmunoAssays S.A.

Rue du Bosquet, 2 | B-1348 Louvain-La-Neuve | Tel : +32.10.84.99.11 | Fax : +32.10.84.99.90

www.diasource.be



Vitamin D-binding protein haplotype is associated with hospitalization for RSV bronchiolitis.

Clin. Exp. Allergy, 44(2):231-7.

- YOUSEFZADEH P. (2014)

Vitamin D Binding Protein Impact on 25-Hydroxyvitamin D Levels under Different Physiologic and Pathologic Conditions.

Int. J. Endocrinol., 2014:981581.

- WANG J. (2014)

Plasma free 25-hydroxyvitamin D, vitamin D binding protein, and risk of breast cancer in the Nurses' Health Study II.

Cancer Causes Control., 25(7):819-27.

- CARTER G.D. (2014)

Assessing Vitamin D Status: Time for a Rethink?

Clin. Chem., 60(6):809–811.

- DE PASCALE G. (2014)

Vitamin D status in critically ill patients: the evidence is now bioavailable!

Critical Care, 18:449.

- LAMBERT A. (2014)

Risk Factors for Vitamin D Deficiency among HIV Infected and Uninfected Injection Drug Users.

PLoS ONE 9(4): e95802. doi:10.1371/journal.pone.0095802.

- BIKLE D. (2014)

Vitamin D: Production, Metabolism, and Mechanisms of Action.

Endotext [Internet]. South Dartmouth (MA): MDText.com, Inc.; 2000-. 2014 Jan 1.

- ASHRAF A.P. (2014)

Associations between Vascular Health Indices and Serum Total, Free and Bioavailable 25-Hydroxyvitamin D in Adolescents.

PLoS ONE 9(12): e114689. doi:10.1371/journal.pone.0114689

- GRONOWSKI A.M. (2015)

Vitamin D: The More We Know, the Less We Know

Clin. Chem., 61(3):462–465.

- BIKLE D. (2015)

Total 25(OH) vitamin D, free 25(OH) vitamin D and markers of bone turnover in cirrhotics with and without synthetic dysfunction.

Liver Int. 2015 Mar 11.

Author:

Nicolas Heureux, PhD

Nicolas.Heureux@diasource.be

Principal Scientist – Vitamin D, DIAsource Immunoassays

DIAsource ImmunoAssays S.A.

Rue du Bosquet, 2 | B-1348 Louvain-La-Neuve | Tel : +32.10.84.99.11 | Fax : +32.10.84.99.90

www.diasource.be



-
- ALOIA J. (2015)
Free 25(OH)D and the Vitamin D Paradox in African Americans.
J. Clin. Endocrinol. Metab. 2015 Jul 10;JC20152066.

 - ALOIA J. (2015)
Free 25(OH)D and Calcium Absorption, PTH, and Markers of Bone Turnover.
J Clin Endocrinol Metab. 2015 Nov;100(11):4140-5.

 - WANG S.-K. (2015)
Circulating vitamin D binding protein, total, free and bioavailable 25-hydroxyvitamin D and risk of colorectal cancer.
Sci. Rep. 5, 7956; DOI:10.1038/srep07956.

 - HANSON C. (2015)
Response of vitamin D binding protein and free vitamin D concentrations to vitamin D supplementation in hospitalized premature infants.
J. Pediatr. Endocrinol. Metab. Sep;28(9-10):1107-14.

 - BRAITHWAITE V.S. (2015)
Vitamin D binding protein genotype is associated with plasma 25OHD concentration in West African children.
Bone 74: 166–170.

 - NIMITPHONG H. (2015)
Relationship of vitamin D status and bone mass according to vitamin D-binding protein genotypes.
Nutrition Journal 14:29.

 - HAN Z. (2015)
Is There Pandemic Vitamin D Deficiency in the Black Population? A Review of Evidence.
The Open Nutrition Journal, 2015, 9, 5-11.

 - REBHOLZ C. (2015)
Biomarkers of Vitamin D Status and Risk of ESRD.
Am J Kidney Dis. 2015 Oct 13. pii: S0272-6386(15)01161-0.

 - GLENDENNING P. (2015)
Controversy and consensus regarding vitamin D: Recent methodological changes and the risks and benefits of vitamin D supplementation.
Crit Rev Clin Lab Sci. 2015 Sep 17:1-16.

 - TANGPRICHA V. (2015)
Free 25-Hydroxyvitamin D Concentrations in Cystic Fibrosis.
Am J Med Sci 2015 Nov;350(5):374-9.

Author:

Nicolas Heureux, PhD

Nicolas.Heureux@diasource.be

Principal Scientist – Vitamin D, DIAsource Immunoassays

DIAsource ImmunoAssays S.A.

Rue du Bosquet, 2 | B-1348 Louvain-La-Neuve | Tel : +32.10.84.99.11 | Fax : +32.10.84.99.90

www.diasource.be



- MIRAGLIA DEL GIUDICE E. (2015)
Bioavailable Vitamin D in Obese Children: The Role of Insulin Resistance.
J Clin Endocrinol Metab. 2015 Oct;100(10):3949-55.
- VIVEKANAND J. (2015)
Bioavailable vitamin D levels are reduced and correlate with bone mineral density and markers of mineral metabolism in adults with nephrotic syndrome.
Nephrology (Carlton) Oct 1.
- LUTSEY P. (2015)
Race and Vitamin D Binding Protein Gene Polymorphisms Modify the Association of 25-Hydroxyvitamin D and Incident Heart Failure : The ARIC (Atherosclerosis Risk in Communities) Study.
JACC Heart Fail. 2015 May;3(5):347-56.
- MADDEN K. (2015)
Critically Ill Children Have Low Vitamin D-Binding Protein, Influencing Bioavailability of Vitamin D.
Annals of the American Thoracic Society, Vol. 12, No. 11 (2015), pp. 1654-1661.
- TAKACS I. (2015)
The role of serum total and free 25-hydroxyvitamin D and PTH values in defining vitamin D status at the end of winter: a representative survey.
J. Bone Miner. Metab. DOI 10.1007/s00774-015-0729-4.
- HEWISON M. (2015)
Vitamin D2 vs vitamin D3: effects of total and free 25-hydroxyvitamin D on immune cells in vivo.
Endocrine Abstracts (2015) 38 P395.
- PELCZYŃSKA M. (2015)
Impact of 25-hydroxyvitamin D, free and bioavailable fractions of vitamin D, and vitamin D binding protein levels on metabolic syndrome components.
Arch. Med. Sci. DOI: 10.5114/aoms.2016.58594.
- DORR J. (2015)
Low 25-hydroxyvitamin D, but not the bioavailable fraction of 25-hydroxyvitamin D, is a risk factor for multiple sclerosis.
European Journal of Neurology 2016, 23: 62–67.
- POP L.C. (2015)
Vitamin D-Binding Protein In Healthy Pre- And Postmenopausal Women: Relationship With Estradiol Concentrations.
Endocr. Pract., 21(8): 936-942.

Author:

Nicolas Heureux, PhD
Nicolas.Heureux@diasource.be
Principal Scientist – Vitamin D, DIAsource Immunoassays
DIAsource ImmunoAssays S.A.
Rue du Bosquet, 2 | B-1348 Louvain-La-Neuve | Tel : +32.10.84.99.11 | Fax : +32.10.84.99.90
www.diasource.be



- SOLLID S.T. (2016)
Effects of vitamin D binding protein phenotypes and vitamin D supplementation on serum total 25(OH)D and directly measured free 25(OH)D.
Eur. J. Endocrinol. April 1, 174:445-452.

- BOUILLON R. (2016)
Free 25-hydroxyvitamin D: impact of vitamin D binding protein assays on racial-genotypic associations.
JCEM, <http://dx.doi.org/10.1210/jc.2016-1104>.

- BOUILLON R. (2016)
Role of Assay Type in Determining Free 25-Hydroxyvitamin D Levels in Diverse Populations.
N. Engl. J. Med. 374(17): 1695-1696.

- WALSH J.S. (2016)
Free 25-hydroxyvitamin D is low in obesity, but there are no adverse associations with bone health.
N. Engl. J. Med. 374(17): 1695-1696.

- CHAN A.T. (2016)
Plasma 25-Hydroxyvitamin D, Vitamin D Binding Protein, and Risk of Colorectal Cancer in the Nurses' Health Study.
Cancer Prevention Research. Published OnlineFirst May 31, 2016; doi: 10.1158/1940-6207.

- POLLARD S.L. (2016)
Measured Free 25(OH)D But Not Total 25(OH)D Is Associated With Atopy And Measures Of Pulmonary Function In Peruvian Children With Asthma.
American Thoracic Society International Conference Abstracts > A106.

- SCHWARTZ J.B. (2016)
Response of Vitamin D Concentration to Vitamin D3 Administration in Older Adults without Sun Exposure: A Randomized Double-Blind Trial.
Journal of the American Geriatrics Society, 64(1), 65-72.

- BOUILLON R. (2016)
Free or Total 25OHD as Marker for Vitamin D Status?
J. Bone Miner. Res., 31(6):1124-7.

- PELCZYNSKA M. (2016)
Impact of 25-hydroxyvitamin D, free and bioavailable fractions of vitamin D, and vitamin D binding protein levels on metabolic syndrome components.
Arch Med Sci DOI: 10.5114/aoms.2016.58594.

Author:

Nicolas Heureux, PhD

Nicolas.Heureux@diasource.be

Principal Scientist – Vitamin D, DIAsource Immunoassays

DIAsource ImmunoAssays S.A.

Rue du Bosquet, 2 | B-1348 Louvain-La-Neuve | Tel : +32.10.84.99.11 | Fax : +32.10.84.99.90

www.diasource.be



- SAARNIO E. (2016)
Serum parathyroid hormone is related to genetic variation in vitamin D binding protein with respect to total, free, and bioavailable 25-hydroxyvitamin D in middle-aged Caucasians – a cross-sectional study.
BMC Nutrition, 2:46.
- HEWISON M. (2016)
Differential responses to vitamin D2 and vitamin D3 are associated with variations in free 25-hydroxyvitamin D.
Endocrinology, Jul 11:en20161139.
- JONES K.S. (2016)
Vitamin D expenditure is not altered in pregnancy and lactation despite changes in vitamin D metabolite concentrations.
Scientific Reports 6, Article number: 26795.
- OZKAN C. (2016)
Vitamin D-binding protein and free vitamin D concentrations in acromegaly.
Endocrine, 52(2), 374–379.
- ORWOLL E. (2016)
Associations of total and free 25OHD and 1,25(OH)2D with serum markers of inflammation in older men.
Osteoporosis International, 27(7), 2291–2300.
- FRANAZIAK J.M. (2016)
Free vitamin D does not vary through the follicular phase of the menstrual cycle.
Endocrine, 53(1): 322-326.
- PITTAS A.G. (2016)
Vitamin D status of black and white Americans and changes in vitamin D metabolites after varied doses of vitamin D supplementation.
Am. J. Clin. Nutr., 104(1): 205-14.
- CAVALIER E. (2016)
Assessment of vitamin D status - a changing landscape.
Clin. Chem. Lab. Med. Jun 30. pii: /j/cclm.ahead-of-print/cclm-2016-0264/cclm-2016-0264.xml.
- WANG X. (2016)
Free and bioavailable 25-hydroxyvitamin d levels in patients with primary hyperparathyroidism.
Endocr Pract. 2016 Sep 28. [Epub ahead of print].

Author:

Nicolas Heureux, PhD

Nicolas.Heureux@diasource.be

Principal Scientist – Vitamin D, DIAsource Immunoassays

DIAsource ImmunoAssays S.A.

Rue du Bosquet, 2 | B-1348 Louvain-La-Neuve | Tel : +32.10.84.99.11 | Fax : +32.10.84.99.90

www.diasource.be



-
- CHEUNG C.L. (2016)
Vitamin binding protein, 25-hydroxyvitamin D and bioavailable vitamin D status in the Hong Kong Chinese population.
Hong Kong Medical Journal, 2016, v. 22 suppl. 1, p. 35, abstract no. 52.
 - LUTSEY P.L. (2016)
Short-term Variability of Vitamin D-Related Biomarkers.
DOI: 10.1373/clinchem.2016.261461.
 - SCHWARTZ J.B. (2016)
Total 25(OH) vitamin D, free 25(OH) vitamin D and markers of bone turnover in cirrhotics with and without synthetic dysfunction.
Liver Int. 2015 Oct;35(10):2294-300.
 - ASHRAF A.P. (2016)
Associations between vascular health indices and serum total, free and bioavailable 25-hydroxyvitamin D in adolescents.
PLoS One. 2014 Dec 5;9(12):e114689.
 - FRANAZIAK J. (2017)
Vitamin D binding protein is lower in infertile patients compared to fertile controls: a case control study.
Fertil Res Pract. 2017 Oct 10;3:14.
 - CARLSSON M. (2017)
Directly measured free 25-hydroxy vitamin D levels show no evidence of vitamin D deficiency in young Swedish women with anorexia nervosa.
Eat Weight Disord. 2017 Apr 28.
 - YANG L. (2017)
Prognostic value of circulating vitamin D binding protein, total, free and bioavailable 25-hydroxy vitamin D in patients with colorectal cancer.
Oncotarget. 2017 Jun 20;8(25):40214-40221.
 - KLINGBERG E. (2017)
The variation in free 25-hydroxy vitamin D and vitamin D-binding protein with season and vitamin D status.
Endocr Connect. 2017 Feb;6(2):111-120.
 - CARLSSON M. (2017)
Erythrocyte fatty acid composition does not influence levels of free, bioavailable, and total 25-hydroxy vitamin D.
Scand J Clin Lab Invest. 2017 Feb;77(1):45-52.

Author:

Nicolas Heureux, PhD

Nicolas.Heureux@diasource.be

Principal Scientist – Vitamin D, DIAsource Immunoassays

DIAsource ImmunoAssays S.A.

Rue du Bosquet, 2 | B-1348 Louvain-La-Neuve | Tel : +32.10.84.99.11 | Fax : +32.10.84.99.90

www.diasource.be



-
- CAVALIER E. (2017)
Assessment of vitamin D status - a changing landscape.
Clin Chem Lab Med. 2017 Jan 1;55(1):3-26.
 - HEUREUX N. (2017)
A Direct Assay for Measuring Free 25-Hydroxyvitamin D.
J AOAC Int. 2017 Sep 1;100(5):1318-1322.

Author:

Nicolas Heureux, PhD

Nicolas.Heureux@diasource.be

Principal Scientist – Vitamin D, DIAsource Immunoassays

DIAsource ImmunoAssays S.A.

Rue du Bosquet, 2 | B-1348 Louvain-La-Neuve | Tel : +32.10.84.99.11 | Fax : +32.10.84.99.90

www.diasource.be



4. DIASOURCE PRODUCTS REFERENCES

- FLOHR F. (2002)

Bone mineral density and quantitative ultrasound in adults with cystic fibrosis.
Eur J Endocrinol, 146(4):531-6

25OH Vitamin D was measured with the BioSource Europe (now DIAsource) 25OH Vitamin D3 RIA assay (KIP1961).

- SHIN Y.G. (2003)

Effect of Chronic Alcohol Ingestion on Bone Mineral Density in Males without Liver Cirrhosis.
The Korean Journal of Internal Medicine, 18:174-180

25OH Vitamin D was measured with the BioSource Europe (now DIAsource) 25OH Vitamin D3 RIA assay (KIP1961).

- MALYSZKO J. (2003)

Osteoprotegerin and its correlations with new markers of bone formation and bone resorption in kidney transplant recipients.
Transplant Proc, 35(6):2227-9

25OH Vitamin D and 1,25(OH)₂ Vitamin D were measured respectively with the BioSource Europe (now DIAsource) 25OH Vitamin D3 RIA assay (KIP1961) and 1,25(OH)₂ Vitamin D RIA assay (KIP1929).

- KYUNG SUNG I. (2004)

Effects of Insulin-like Growth Factor-I and 1,25-(OH)₂ Vitamin D3 Concentration on Intrauterine Growth of Newborns from Mothers with Preeclampsia.
Korean Journal of Pediatrics, 47(5), 527-531

1,25(OH)₂ Vitamin D was measured with the BioSource Europe (now DIAsource) 1,25(OH)₂ Vitamin D RIA assay (KIP1929).

- POLAK-JONKISZ D. (2004)

Vitamin d3 metabolites in children with end-stage renal failure.
Przegląd pediatryczny, 34(1):42

25OH Vitamin D and 1,25(OH)₂ Vitamin D were measured with respectively the BioSource Europe (now DIAsource) 25OH Vitamin D3 RIA assay (KIP1961) and 1,25(OH)₂ Vitamin D RIA assay (KIP1921, now KIP1929).

- PANIDIS D. (2005)

Serum Parathyroid Hormone Concentratio

Author:

Nicolas Heureux, PhD

Nicolas.Heureux@diasource.be

Principal Scientist – Vitamin D, DIAsource Immunoassays

DIAsource ImmunoAssays S.A.

Rue du Bosquet, 2 | B-1348 Louvain-La-Neuve | Tel : +32.10.84.99.11 | Fax : +32.10.84.99.90

www.diasource.be



- YANG L. (2017)

Prognostic value of circulating vitamin D binding protein, total, free and bioavailable 25-hydroxy vitamin D in patients with colorectal cancer. Oncotarget. 2017 Jun 20;8(25):40214-40221.ns Are Increased in Women with Polycystic Ovary Syndrome. Clin. Chem., 51(9):1691-1697

25OH Vitamin D and 1,25(OH)₂ Vitamin D were measured with respectively the BioSource Europe (now DIAsource) 25OH Vitamin D3 RIA assay (KIP1961) and 1,25(OH)₂ Vitamin D RIA assay (KIP1921, now KIP1929).

- BERK F. (2005)

Subclinical Vitamin D Deficiency Is Increased in Adolescent Girls Who Wear Concealing Clothing. J. Nutr., 135:218-222

25OH Vitamin D was measured with the BioSource (now DIAsource) 25OH Vitamin D3 RIA assay (KIP1961).

- ATLI T. (2005)

The prevalence of Vitamin D deficiency and effects of ultraviolet light on Vitamin D levels in elderly Turkish population. Arch Gerontol Geriatr, 40(1):53-60

25OH Vitamin D was measured with the BioSource (now DIAsource) 25OH Vitamin D3 RIA assay (KIP1961).

- ORBAK Z. (2005)

Rickets in early infancy: the characteristic features. Çocuk Sağlığı ve Hastalıkları Dergisi, 48:8-13

25OH Vitamin D was measured with the BioSource (now DIAsource) 25OH Vitamin D3 RIA assay (KIP1961).

- PATIÑO-GARCIA A. (2006)

Bone Mineral Density and Bone Metabolism In Children Treated for Bone Sarcomas. Pediatric Research, 59:866-871

25OH Vitamin D and 1,25(OH)₂ Vitamin D were measured with respectively the BioSource Europe (now DIAsource) 25OH Vitamin D3 RIA assay (KIP1961) and 1,25(OH)₂ Vitamin D RIA assay (KIP1921, now KIP1929).

- GIANOTTI L. (2006)

Author:

Nicolas Heureux, PhD

Nicolas.Heureux@diasource.be

Principal Scientist – Vitamin D, DIAsource Immunoassays

DIAsource ImmunoAssays S.A.

Rue du Bosquet, 2 | B-1348 Louvain-La-Neuve | Tel : +32.10.84.99.11 | Fax : +32.10.84.99.90

www.diasource.be



A slight decrease in renal function further impairs bone mineral density in primary hyperparathyroidism.

J Clin Endocrinol Metab, 91(8):3011-6

25OH Vitamin D was measured with the BioSource Europe (now DIASource) 25OH Vitamin D3 RIA assay (KIP1961).

- ABDEL-HALIM M.R.E. (2006)

Skin and serum levels of calcium, phosphorus and vitamin D3 in uremic pruritus patients before and after broad band ultraviolet B (UVB) phototherapy.

Egyptian Dermatology Online Journal, 1(2):1

1,25(OH)₂ Vitamin D was measured with the BioSource Europe (now DIASource) 1,25(OH)₂ Vitamin D RIA assay (KIP1929).

- TEKGUL H. (2006)

Bone Mineral Status in Pediatric Outpatients on Antiepileptic Drug Monotherapy.

Journal of Child Neurology, 21(5):411

1,25(OH)₂ Vitamin D was measured with the BioSource Europe (now DIASource) 1,25(OH)₂ Vitamin D RIA assay (KIP1929).

- LARIJANI B. (2007)

Vitamin D status in mothers and their newborns in Iran.

BMC Pregnancy and Childbirth, 7:1

18

25OH Vitamin D was measured with the BioSource Europe (now DIASource) 25OH Vitamin D3 RIA assay (KIP1961).

- ERBIL Y. (2007)

Predictive Value of Age and Serum Parathormone and Vitamin D3 Levels for Postoperative Hypocalcemia After Total Thyroidectomy for Nontoxic Multinodular Goiter.

Arch. Surg., 142(12):1182

25OH Vitamin D was measured with the BioSource Europe (now DIASource) 25OH Vitamin D3 RIA assay (KIP1961).

- CRAVER L. (2007)

Mineral metabolism parameters throughout chronic kidney disease stages 1-5—achievement of K/DOQI target ranges.

Nephrol. Dial. Transplant., 22:1171-1176

25OH Vitamin D was measured with the BioSource (now DIASource) 25OH Vitamin D3 RIA assay (KIP1961).

Author:

Nicolas Heureux, PhD

Nicolas.Heureux@diasource.be

Principal Scientist – Vitamin D, DIASource Immunoassays

DIASource ImmunoAssays S.A.

Rue du Bosquet, 2 | B-1348 Louvain-La-Neuve | Tel : +32.10.84.99.11 | Fax : +32.10.84.99.90

www.diasource.be



- MAI K. (2007)

Interaction between vitamins A and D on growth and metabolic responses of abalone *Haliotis discus hannai*, Ino.
Journal of Shellfish Research

25OH Vitamin D and 1,25(OH)₂ Vitamin D were measured with respectively the BioSource Europe (now DIAsource) 25OH Vitamin D₃ RIA assay (KIP1961) and 1,25(OH)₂ Vitamin D RIA assay (KIP1929).

- TEISSEYRE J. (2007)

Bone mineral metabolism in children with biliary atresia after living related liver transplantation. Evaluation of selected parameters.
Ann. Transplant., 12(2):19-25

1,25(OH)₂ Vitamin D was measured with the BioSource (now DIAsource) 1,25(OH)₂ Vitamin D RIA assay (KIP1929).

- LARIJANI B. (2008)

Normative Values of Vitamin D Among Iranian Population: A Population Based Study.
International Journal of Osteoporosis and Metabolic Disorders, 1:8-15

25OH Vitamin D was measured with one of the BioSource (now DIAsource) 25OH Vitamin D RIA assay (KIP1961 or KIP1971).

- KIM Y.S. (2008)

Dietary Calcium Intake and Bone Metabolism in Korean Postmenopausal Women.
Korean Journal of Bone Metabolism, 15(2):143-149

25OH Vitamin D was measured with one of the BioSource (now DIAsource) 25OH Vitamin D₃ RIA assay (KIP1961).

- KANG M.-I. (2008)

Short-term changes in bone and mineral metabolism following gastrectomy in gastric cancer patients.
Bone, 42(1):61-7

25OH Vitamin D was measured with one of the BioSource (now DIAsource) 25OH Vitamin D₃ RIA assay (KIP1961).

- KANG M.-I. (2008)

Reappraisal of the Prevalence of Vitamin D Inadequacy in Korea: A Single Center's Experience.
Korean Journal of Bone Metabolism, 15(2):109-115

Author:

Nicolas Heureux, PhD

Nicolas.Heureux@diasource.be

Principal Scientist – Vitamin D, DIAsource Immunoassays

DIAsource ImmunoAssays S.A.

Rue du Bosquet, 2 | B-1348 Louvain-La-Neuve | Tel : +32.10.84.99.11 | Fax : +32.10.84.99.90

www.diasource.be



25OH Vitamin D was measured with one of the BioSource (now DIAsource) 25OH Vitamin D3 RIA assay (KIP1961).

- LARIJANI B. (2008)

Association between Vitamin D Deficiency and Unexplained Musculoskeletal Pain. Iranian J Publ. Health, A supplementary issue on Osteoporosis and Bone Turnover, 1:49-54

25OH Vitamin D was measured with the BioSource (now DIAsource) 25OH Vitamin D3 RIA assay (KIP1961).

- DURSUN H. (2008)

Effects of Cirrhosis on Bone Mineral Density and Bone Metabolism
EAJM, 40:18

25OH Vitamin D was measured with the BioSource (now DIAsource) 25OH Vitamin D3 RIA assay (KIP1961).

- BOZKURT D. (2009)

Low Levels of 1,25-Dihydroxy Vitamin D is associated with All-cause Mortality in Prevalent Hemodialysis Patients.

Turkish Nephrology, Dialysis and Transplantation Journal, 19(1):11-16

20

25OH Vitamin D and 1,25(OH)₂ Vitamin D were measured with respectively the BioSource Europe (now DIAsource) 25OH Vitamin D3 RIA assay (KIP1961) and 1,25(OH)₂ Vitamin D RIA assay (KIP1929).

- KIM S.H. (2009)

The level of vitamin D in the serum correlates with fatty degeneration of the muscles of the rotator cuff.

J Bone Joint Surg., 91-B:1587-93

25OH Vitamin D was measured with the BioSource Europe (now DIAsource) 25OH Vitamin D3 RIA assay (KIP1961).

- JOH H.-K. (2009)

Biochemical Markers and Health Behavior Related with Bone Mineral Density in Adult Men.

Korean J Fam Med, 30:359-368

25OH Vitamin D was measured with the BioSource Europe (now DIAsource) 25OH Vitamin D3 RIA assay (KIP1961).

- PARK J. (2009)

Author:

Nicolas Heureux, PhD

Nicolas.Heureux@diasource.be

Principal Scientist – Vitamin D, DIAsource Immunoassays

DIAsource ImmunoAssays S.A.

Rue du Bosquet, 2 | B-1348 Louvain-La-Neuve | Tel : +32.10.84.99.11 | Fax : +32.10.84.99.90

www.diasource.be



Vitamin D Levels and Their Relationship with Cardiac Biomarkers in Chronic Hemodialysis Patients.

J Korean Med. Sci, 24(Suppl. 1):S109-14

25OH Vitamin D was measured with the BioSource Europe (now DIAsource) 25OH Vitamin D3 RIA assay (KIP1961).

- MADDAM M. (2009)

Intake of calcium/vitamin D supplement in Iranian postmenopausal women.
Arch Osteoporos, 4:95-96

25OH Vitamin D was measured with the BioSource Europe (now DIAsource) 25OH Vitamin D3 RIA assay (KIP1961).

- BONAKDARAN S. (2009)

Correlation between serum 25 hydroxy vitamin D3 and laboratory risk markers of cardiovascular diseases in type 2 diabetic patients.
Saudi Med. J, 30(4):509-514

25OH Vitamin D was measured with one of the BioSource Europe (now DIAsource) 25OH Vitamin D RIA assay (KIP1961 or KIP1971).

- CORTADELLAS O. (2009)

Calcium and Phosphorus Homeostasis in Dogs with Spontaneous Chronic Kidney Disease at Different Stages of Severity.
J Vet. Intern. Med., 24:73-79

1,25(OH)₂ Vitamin D was measured with the BioSource Europe (now DIAsource) 1,25(OH)₂ Vitamin D RIA assay (KIP1929).

- YAVUZ B. (2010)

STATIN-D Study: Comparison of the Influences of Rosuvastatin and Fluvastatin Treatment on the Levels of 25 Hydroxyvitamin D.
Cardiovascular Therapeutics, 00:1-7

25OH Vitamin D was measured with the BioSource Europe (now DIAsource) 25OH Vitamin D3 RIA assay (KIP1961).

- KIM M.-J. (2010)

Nutritional Status of Vitamin D and the Effect of Vitamin D Supplementation in Korean Breast-fed Infants.
J Korean Med. Sci, 25:83-9

25OH Vitamin D was measured with the BioSource Europe (now DIAsource) 25OH Vitamin D3 RIA assay (KIP1961).

Author:

Nicolas Heureux, PhD

Nicolas.Heureux@diasource.be

Principal Scientist – Vitamin D, DIAsource Immunoassays

DIAsource ImmunoAssays S.A.

Rue du Bosquet, 2 | B-1348 Louvain-La-Neuve | Tel : +32.10.84.99.11 | Fax : +32.10.84.99.90

www.diasource.be



- CHO C.Y. (2010)
The Relationship between Vitamin D Levels and Chronic Diseases.
Korean J Clin Geri, 11(2):154-169

25OH Vitamin D was measured with the BioSource Europe (now DIAsource) 25OH Vitamin D3 RIA assay (KIP1961).

- MEI W. (2010)
Overexpression of parathyroid pituitary-specific transcription factor (Pit)-1 in hyperphosphatemia-induced hyperparathyroidism of chronic renal failure rats.
Chin. Med. J, 123(12):1566-1570

1,25(OH)₂ Vitamin D was measured with the BioSource (now DIAsource) 1,25(OH)₂ Vitamin D RIA assay (KIP1921, now KIP1929).

- BOZKURT D. (2010)
Low Levels of 1.25-Dihydroxy Vitamin D is associated with All-cause Mortality in Prevalent Hemodialysis Patients.
Turkish Nephrology, Dialysis and Transplantation Journal, 19(1): 11-16

25OH Vitamin D and 1,25(OH)₂ Vitamin D were measured respectively with the BioSource Europe (now DIAsource) 25OH Vitamin D3 RIA assay (KIP1961) and 1,25(OH)₂ Vitamin D RIA assay (KIP1929).

22

- KARADAĞ A.S. (2011)
The role of anemia and vitamin D levels in acute and chronic telogen effluvium.
Turk. J Med. Sci, 41(5):827-833

25OH Vitamin D and 1,25(OH)₂ Vitamin D were measured with respectively the BioSource Europe (now DIAsource) 25OH Vitamin D3 RIA assay (KIP1961) and 1,25(OH)₂ Vitamin D RIA assay (KIP1921, now KIP1929).

- KHADER Y.S. (2011)
Relationship between 25-hydroxyvitamin D and metabolic syndrome among Jordanian adults.
Nutr. Res. Pract., 5(2):132-139

25OH Vitamin D was measured with the BioSource Europe (now DIAsource) 25OH Vitamin D3 RIA assay (KIP1961).

- PARK S.Y. (2011)
Vitamin D Inadequacy in Patients with Osteoporotic Hip Fractures.
Korean J Bone Metab, 18(1):9-14

Author:

Nicolas Heureux, PhD
Nicolas.Heureux@diasource.be
Principal Scientist – Vitamin D, DIAsource Immunoassays
DIAsource ImmunoAssays S.A.
Rue du Bosquet, 2 | B-1348 Louvain-La-Neuve | Tel : +32.10.84.99.11 | Fax : +32.10.84.99.90
www.diasource.be



25OH Vitamin D was measured with the BioSource Europe (now DIAsource) 25OH Vitamin D3 RIA assay (KIP1961).

- MIRSHAFIEY A. (2011)
Randomized controlled trial using vitamins E and D supplementation in atopic dermatitis.
Journal of Dermatological Treatment, 22:144–150

25OH Vitamin D was measured with the BioSource Europe (now DIAsource) 25OH Vitamin D3 RIA assay (KIP1961).

- LI B.-Y. (2011)
Enhanced Radiosensitivity in 1,25-dihydroxyvitamin D3 Deficient Mice.
J. Radiat. Res., 52:215–219

1,25(OH)₂ Vitamin D was measured with the BioSource (now DIAsource) 1,25(OH)₂ Vitamin D RIA assay (KIP1921, now KIP1929).

- JAHANSHAHIFAR L. (2011)
Vitamin D deficiency and its association with disease activity in new cases of systemic lupus erythematosus.
Lupus, 20:1155-1160

25OH Vitamin D was measured with one of the DIAsource 25OH Vitamin D RIA assay (KIP1961 or KIP1971).

- DABAK M. (2011)
Vitamin D Status in Cattle with Malignant Catarrhal Fever.
J. Vet. Med. Sci., 74(1):125–128

1,25(OH)₂ Vitamin D was measured with the DIAsource 1,25(OH)₂ Vitamin D RIA assay (KIP1929).

- FELSEMBERG D. (2011)
Additive impact of alfacalcidol on bone mineral density and bone strength in alendronate treated postmenopausal women with reduced bone mass.
J Musculoskelet. Neuronal Interact., 11(1):34-45

1,25(OH)₂ Vitamin D was measured with the DIAsource 1,25(OH)₂ Vitamin D RIA assay (KIP1929).

- EL KHASMI M. (2011)
Circulating levels of 25-hydroxyvitamin D and testosterone during the rutting and non-rutting periods in Moroccan dromedary camels (Camelus dromedarius).
Emir. J. Food Agric., 23(4):368-374

Author:

Nicolas Heureux, PhD
Nicolas.Heureux@diasource.be
Principal Scientist – Vitamin D, DIAsource Immunoassays
DIAsource ImmunoAssays S.A.
Rue du Bosquet, 2 | B-1348 Louvain-La-Neuve | Tel : +32.10.84.99.11 | Fax : +32.10.84.99.90
www.diasource.be



25OH Vitamin D was measured with one of the DIASource 25OH Vitamin D RIA assay (KIP1961 or KIP1971).

- LESIAK A. (2011)

The influence of phototherapy with narrow band UVB on 25-hydroxycholecalciferol serum concentration in psoriasis vulgaris patients.
Post Dermatol. Alergol., 2:97-102

25OH Vitamin D was measured with one of the DIASource 25OH Vitamin D RIA assay (KIP1961 or KIP1971).

- MAJAK P. (2011)

Vitamin D supplementation in children may prevent asthma exacerbation triggered by acute respiratory infection.
J Allergy Clin Immunol, 127(5):1294-6

25OH Vitamin D was measured with the DIASource 25OH Vitamin D3 RIA assay (KIP1961).

- KOLANKO M. (2012)

Calcidiol level in patients with psoriasis treated with NB-UVB therapy.
Postępy Nauk Medycznych 10:s.787-793

25OH Vitamin D was measured with the DIASource 25OH Vitamin D Total RIA assay (KIP1971).

- SCHAALAN M.F. (2012)

Vitamin D deficiency: Correlation to interleukin-17, interleukin-23 and PIII NP in hepatitis C virus genotype 4.
World J Gastroenterol., 18(28):3738-3744

25OH Vitamin D was measured with the Medgenix (now DIASource) 25OH Vitamin D Total RIA assay (KIP1971).

- BONAKDARAN S. (2012)

The Effects of Calcitriol on Albuminuria in Patients with Type-2 Diabetes Mellitus.
Saudi J Kidney Dis. Transpl., 23(6):1215-1220

25OH Vitamin D was measured with one of the BioSource Europe (now DIASource) 25OH Vitamin D RIA assay (KIP1961 or KIP1971).

- FICHNA M. (2012)

Increased serum osteoprotegerin in patients with primary adrenal insufficiency receiving conventional hydrocortisone substitution.

Author:

Nicolas Heureux, PhD

Nicolas.Heureux@diasource.be

Principal Scientist – Vitamin D, DIASource Immunoassays

DIASource ImmunoAssays S.A.

Rue du Bosquet, 2 | B-1348 Louvain-La-Neuve | Tel : +32.10.84.99.11 | Fax : +32.10.84.99.90

www.diasource.be



Journal of Physiology and Pharmacology, 63(6):677-682

25OH Vitamin D was measured with the DIAsource 25OH Vitamin D3 RIA assay (KIP1961).

- ESCUDER P.T. (2012)

Fibroblast growth factor 23 (FGF 23) and phosphocalcic metabolism in chronic kidney disease.

Nefrologia, 32(5):647-654

1,25(OH)₂ Vitamin D was measured with the DIAsource 1,25(OH)₂ Vitamin D RIA assay (KIP1929).

- SUTTORP M. (2012)

Changes in bone metabolic parameters in children with chronic myeloid leukemia on imatinib treatment.

Med. Sci Monit., 18(12):CR721-CR728

1,25(OH)₂ Vitamin D was measured with the DIAsource 1,25(OH)₂ Vitamin D RIA assay (KIP1929).

- KOH J.H. (2012)

25-Hydroxyvitamin D Status Based on Estimated Glomerular Filtration Rate in Patients with Chronic Kidney Disease.

Korean J Med., 83(6):740-751

25

25OH Vitamin D was measured with the DIAsource 25OH Vitamin D3 RIA assay (KIP1961).

- MARCÉN R. (2012)

Are low levels of 25-hydroxyvitamin D a risk factor for cardiovascular diseases or malignancies in renal transplantation?

Nephrol. Dial. Transplant., 27(Suppl. 4):iv47-iv52

1,25(OH)₂ Vitamin D was measured with the BioSource Europe (now DIAsource) 1,25(OH)₂ Vitamin D RIA assay (KIP1929).

- SZYMCZAK J. (2012)

Low bone mineral density in adult patients with coeliac disease.

Polish Journal of Endocrinology, 63(4):270-276

1,25(OH)₂ Vitamin D and 25OH Vitamin D were respectively measured with the BioSource Europe (now DIAsource) 1,25(OH)₂ Vitamin D RIA assay (KIP1929) and 25OH Vitamin D3 RIA assay (KIP1961).

Author:

Nicolas Heureux, PhD

Nicolas.Heureux@diasource.be

Principal Scientist – Vitamin D, DIAsource Immunoassays

DIAsource ImmunoAssays S.A.

Rue du Bosquet, 2 | B-1348 Louvain-La-Neuve | Tel : +32.10.84.99.11 | Fax : +32.10.84.99.90

www.diasource.be



- GRUSON D. (2013)

Measurement of 25-hydroxyvitamin D: evaluation of the new DIAsource ELISA assay.

Endocrine Abstracts, 32:P148

- LARIJANI B. (2013)

The Relation between Serum Vitamin D Levels and Blood Pressure: A Population-Based Study.

Acta Medica Iranica, 52(4):290

25OH Vitamin D was measured with one of the BioSource Europe (now DIAsource) 25OH Vitamin D RIA assay (KIP1961 or KIP1971).

- CRAVER L. (2013)

A low fractional excretion of Phosphate/Fgf23 ratio is associated with severe abdominal Aortic calcification in stage 3 and 4 kidney disease patients.

BMC Nephrology, 14:221

25OH Vitamin D was measured with the BioSource Europe (now DIAsource) 25OH Vitamin D3 RIA assay (KIP1961).

- DEMIR M. (2013)

The Relationship between Vitamin D Deficiency and Pulmonary Hypertension.

Prague Medical Report, 114(3):154–161

26

25OH Vitamin D was measured with the BioSource Europe (now DIAsource) 25OH Vitamin D3 RIA assay (KIP1961).

- DEMIR M. (2013)

Vitamin D levels in patients with chronic hepatitis B virus infection and naturally immunized individuals.

Internal Medicine Inside, 1:2

25OH Vitamin D was measured with the BioSource Europe (now DIAsource) 25OH Vitamin D3 RIA assay (KIP1961).

- DEMIR M. (2013)

Relationship Between Vitamin D Deficiency and Nondipper Hypertension.

Clinical and Experimental Hypertension, 35(1):45–49

25OH Vitamin D was measured with the BioSource Europe (now DIAsource) 25OH Vitamin D3 RIA assay (KIP1961).

- TALAEI A. (2013)

The effect of vitamin D on insulin resistance in patients with type 2 diabetes.

Diabetology & Metabolic Syndrome, 5:8

Author:

Nicolas Heureux, PhD

Nicolas.Heureux@diasource.be

Principal Scientist – Vitamin D, DIAsource Immunoassays

DIAsource ImmunoAssays S.A.

Rue du Bosquet, 2 | B-1348 Louvain-La-Neuve | Tel : +32.10.84.99.11 | Fax : +32.10.84.99.90

www.diasource.be



25OH Vitamin D was measured with one of the BioSource Europe (now DIAsource) 25OH Vitamin D RIA assay (KIP1961 or KIP1971).

- JEON I.-H. (2013)

The Effect of Short-Term Low-Energy Ultraviolet B Irradiation on Bone Mineral Density and Bone Turnover Markers in Postmenopausal Women with Osteoporosis: A Randomized Single-Blinded Controlled Clinical Trial.
Srp Arh Celok Lek., 141(9-10):615-622

25OH Vitamin D was measured with one of the BioSource (now DIAsource) 25OH Vitamin D3 RIA assay (KIP1961).

- PAL M. (2013)

Comparison between different methods of estimation of vitamin D.
Advances in Biological Chemistry, 3:501-504

25OH Vitamin D was measured with the DIAsource 25OH Vitamin D Total ELISA assay (KAP1971).

- JANSEN E. (2013)

Biomarker measurements in the aging cohorts of the FP7 project "CHANCES".
Poster presentation at the Symposium "Biomarkers of Ageing" 2013, Konstanz, Germany, 22-23 March 2013 (<http://www.chancesfp7.eu/events/Konstanz.pdf>).

27

25OH Vitamin D was measured with the DIAsource 25OH Vitamin D Total ELISA assay (KAP1971).

- AYGENCEL G. (2013)

Is Vitamin D Insufficiency Associated with Mortality of Critically Ill Patients ?
Critical Care Research and Practice, Article ID 856747

25OH Vitamin D was measured with one of the DIAsource 25OH Vitamin D RIA assay (KIP1961 or KIP1971).

- BIKLE D. (2013)

Variability in free 25(OH) vitamin D levels in clinical populations.
J. Steroid Biochem. Mol. Biol., S0960-0760.

Free 25OH Vitamin D was measured with the Future Diagnostics Free 25OH Vitamin D ELISA assay which is exclusively distributed by DIAsource (KARF1991).

- PRATS M. (2013)

Author:

Nicolas Heureux, PhD

Nicolas.Heureux@diasource.be

Principal Scientist – Vitamin D, DIAsource Immunoassays

DIAsource ImmunoAssays S.A.

Rue du Bosquet, 2 | B-1348 Louvain-La-Neuve | Tel : +32.10.84.99.11 | Fax : +32.10.84.99.90

www.diasource.be



Effect of ferric carboxymaltose on serum phosphate and C-terminal FGF23 levels in non-dialysis chronic kidney disease patients: post-hoc analysis of a prospective study.

BMC Nephrol., 14:167

1,25(OH)₂ Vitamin D was measured with the DIAsource 1,25(OH)₂ Vitamin D RIA assay (KIP1929).

- BOK Y.P. (2013)

Correlation between serum 25-hydroxyvitamin D levels and methicillin - resistant *Staphylococcus aureus* skin colonization in atopic dermatitis.

Allergy Asthma Respir. Dis., 1(2):138-143

25OH Vitamin D was measured with the DIAsource 25OH Vitamin D3 RIA assay (KIP1961).

- SCHÖTTKER B. (2014)

Vitamin D and mortality: meta-analysis of individual participant data from a large consortium of cohort studies from Europe and the United States.

BMJ, 348:g3656

25OH Vitamin D was measured with the DIAsource 25OH Vitamin D Total ELISA assay (KAP1971) in the following cohorts: HAPIEE Czech Republic, HAPIEE Poland and HAPIEE Lithuania.

28

- BUCCA C. (2014)

Severe vitamin D deficiency is associated with frequent exacerbations and hospitalization in COPD patients.

Respiratory Research, 15:131

25OH Vitamin D was measured with the DIAsource 25OH Vitamin D Total RIA assay (KIP1971).

- AMANI R. (2014)

Comparison of Antioxidant Status and Vitamin D Levels between Multiple Sclerosis Patients and Healthy Matched Subjects.

Multiple Sclerosis International, 539854, 5 pages

25OH Vitamin D was measured with one of the BioSource Europe (now DIAsource) 25OH Vitamin D RIA assay (KIP1961 or KIP1971).

- KIM H.C. (2014)

Serum 25-Hydroxyvitamin D and Insulin Resistance in Apparently Healthy Adolescents.

PLoS ONE 9(7): e103108

Author:

Nicolas Heureux, PhD

Nicolas.Heureux@diasource.be

Principal Scientist – Vitamin D, DIAsource Immunoassays

DIAsource ImmunoAssays S.A.

Rue du Bosquet, 2 | B-1348 Louvain-La-Neuve | Tel : +32.10.84.99.11 | Fax : +32.10.84.99.90

www.diasource.be



25OH Vitamin D was measured with the DIASource 25OH Vitamin D3 RIA assay (KIP1961).

- JOSHI A. (2014)

Vitamin D deficiency is associated with increased mortality in critically ill patients especially in those requiring ventilatory support.

Indian Journal of Endocrinology and Metabolism, 18(4):511

25OH Vitamin D was measured with the DIASource 25OH Vitamin D3 RIA assay (KIP1961).

- HOSSEIN-NEZHAD A. (2014)

The Role of Vitamin D Deficiency and Vitamin D Receptor Genotypes on the Degree of Collateralization in Patients with Suspected Coronary Artery Disease.

BioMed Research International, ID 304250, 8 pages

25OH Vitamin D was measured with one of the BioSource (now DIASource) 25OH Vitamin D RIA assay (KIP1961 or KIP1971).

- YENIOVA O. (2014)

The association of vitamin D deficiency with nonalcoholic fatty liver disease.

Clinics., 69(8):542-546

25OH Vitamin D was measured with the BioSource (now DIASource) 25OH Vitamin D3 RIA assay (KIP1961).

- ABDELGADIR E.I.E. (2014)

Vitamin D Deficiency and Insufficiency in Patients Attending a General Hospital in Dubai, United Arab Emirates.

Ibnosina J. Med. B.S., 6(2):81-84

25OH Vitamin D was measured with one of the DIASource 25OH Vitamin D RIA assay (KIP1961 or KIP1971).

- LONE K.P. (2014)

Vitamin D and cardiometabolic risk factors in adult non-diabetic offspring of type 2 diabetic parents.

J. Pak. Med. Assoc., 64(11):1229-1234

25OH Vitamin D was measured with the DIASource 25OH Vitamin D Total ELISA assay (KAP1971).

- KIM H.C. (2014)

Author:

Nicolas Heureux, PhD

Nicolas.Heureux@diasource.be

Principal Scientist – Vitamin D, DIASource Immunoassays

DIASource ImmunoAssays S.A.

Rue du Bosquet, 2 | B-1348 Louvain-La-Neuve | Tel : +32.10.84.99.11 | Fax : +32.10.84.99.90

www.diasource.be



Association between Serum 25-Hydroxyvitamin D Level and Insulin Resistance in a Rural Population.

Yonsei Med. J., 55(4):1036-1041

25OH Vitamin D was measured with one of the DIAsource 25OH Vitamin D RIA assay (KIP1961 or KIP1971).

- LEE S.-G. (2014)

Association between Vitamin D Deficiency and Carotid Intima-media Thickness in Patients with Rheumatoid Arthritis.

Journal of Rheumatic Diseases, 21(3):132-139

25OH Vitamin D was measured with one of the DIAsource 25OH Vitamin D RIA assay (KIP1961 or KIP1971).

- CANO F.J. (2014)

Longitudinal FGF23 and Klotho axis characterization in children treated with chronic peritoneal dialysis.

Clin. Kidney J., 7:457-463

1,25(OH)₂ Vitamin D was measured with the DIAsource 1,25(OH)₂ Vitamin D RIA assay (KIP1929).

- CHOI K.M. (2014)

Impact of Visceral Fat on Skeletal Muscle Mass and Vice Versa in a Prospective Cohort Study: The Korean Sarcopenic Obesity Study (KSOS).

PLoS ONE 9(12):e115407

25OH Vitamin D was measured with one of the DIAsource 25OH Vitamin D RIA assay (KIP1961 or KIP1971).

- TABATABAEI F. (2014)

Prevalence of vitamin D deficiency in healthy children in Kashan.

Proceeding of the 26th International Congress of Pediatrics – Oct 2014, Endocrine& Metabolic Disorders Abstracts: S9

25OH Vitamin D was measured with the DIAsource 25OH Vitamin D Total ELISA assay (KAP1971).

- SCHWARTZ J.B. (2014)

A comparison of direct and calculated free 25(OH) Vitamin D levels in clinical populations.

J. Clin. Endocrinol. Metab., 99(5):1631-7.

Free 25OH Vitamin D was measured with the Future Diagnostics Free 25OH Vitamin D ELISA assay which is exclusively distributed by DIAsource (KARF1991).

Author:

Nicolas Heureux, PhD

Nicolas.Heureux@diasource.be

Principal Scientist – Vitamin D, DIAsource Immunoassays

DIAsource ImmunoAssays S.A.

Rue du Bosquet, 2 | B-1348 Louvain-La-Neuve | Tel : +32.10.84.99.11 | Fax : +32.10.84.99.90

www.diasource.be



- DEMKOW U. (2015)

Markers of Bone Metabolism in Children with Nephrotic Syndrome Treated with Corticosteroids.

Advx Exp. Medicine, Biology – Neuroscience and Respiration, 9:21-28

1,25(OH)₂ Vitamin D was measured with the BioSource (now DIAsource) 1,25(OH)₂ Vitamin D RIA assay (KIP1929).

- YANCHEVA N. (2015)

Deficiency of Vitamin D in HIV Infected Patients and Its Effect on Some of the Immunological Parameters.

World Journal of AIDS, 5, 182-188.

25OH Vitamin D was measured with the DIAsource 25OH Vitamin D Total RIA assay (KIP1971).

- HEWISON M. (2015)

Vitamin D2 vs vitamin D3: effects of total and free 25-hydroxyvitamin D on immune cells in vivo.

Endocrine Abstracts (2015) 38 P395.

Free 25OH Vitamin D was measured with the Future Diagnostics Free 25OH Vitamin D ELISA assay which is exclusively distributed by DIAsource (KARF1991).

31

- KIM H.-M. (2015)

Severe vitamin D deficiency in preterm infants: maternal and neonatal clinical features.

Korean J. Pediatr. Nov;58(11):427-433.

25OH Vitamin D was measured with the DIAsource 25OH Vitamin D3 RIA assay (KIP1961).

- RHEE Y. (2015)

Increased Sclerostin Levels after Further Ablation of Remnant Estrogen by Aromatase Inhibitors.

Endocrinol. Metab., 30(1):58-64

25OH Vitamin D was measured with the BioSource (now DIAsource) 25OH Vitamin D3 RIA assay (KIP1961).

- IONESCU R. (2015)

Influence of vitamin D status on cardiovascular involvement in systemic sclerosis
Ann. Rheum. Dis. 2015;74:A50-A51

Author:

Nicolas Heureux, PhD

Nicolas.Heureux@diasource.be

Principal Scientist – Vitamin D, DIAsource Immunoassays

DIAsource ImmunoAssays S.A.

Rue du Bosquet, 2 | B-1348 Louvain-La-Neuve | Tel : +32.10.84.99.11 | Fax : +32.10.84.99.90

www.diasource.be



25OH Vitamin D was measured with the DIAsource 25OH Vitamin D Total ELISA assay (KAP1971).

- BIKLE D. (2015)

Total 25(OH) vitamin D, free 25(OH) vitamin D and markers of bone turnover in cirrhotics with and without synthetic dysfunction.

Liver Int. 2015 Mar 11.

Free 25OH Vitamin D was measured with the Future Diagnostics Free 25OH Vitamin D ELISA assay which is exclusively distributed by DIAsource (KARF1991).

- ALOIA J. (2015)

Free 25(OH)D and the Vitamin D Paradox in African Americans.

J. Clin. Endocrinol. Metab. 2015 Jul 10;JC20152066.

Free 25OH Vitamin D was measured with the Future Diagnostics Free 25OH Vitamin D ELISA assay which is exclusively distributed by DIAsource (KARF1991).

- ALOIA J. (2015)

Free 25(OH)D and Calcium Absorption, PTH and Markers of Bone Turnover.

J. Clin. Endocrinol. Metab. 2015 Aug 27;jc20152548.

Free 25OH Vitamin D was measured with the Future Diagnostics Free 25OH Vitamin D ELISA assay which is exclusively distributed by DIAsource (KARF1991).

32

- BORZUTZKY A. (2015)

Severe vitamin D deficiency in children from Punta Arenas, Chile: Influence of nutritional status on the response to supplementation.

Rev. Chil. Pediatr. 2015;86(3):182-188.

25OH Vitamin D was measured with the DIAsource 25OH Vitamin D Total ELISA assay (KAP1971).

- BINKLEY N. (2015)

Relationship of Directly Measured Free 25(OH) Vitamin D and Total 25OH Vitamin D: Effect of Daily Vitamin D Supplementation in Postmenopausal Women.

Poster presented at ASBMR 2015 (Seattle).

Free 25OH Vitamin D and 25OH Vitamin D were respectively measured with the DIAsource Free 25OH Vitamin D ELISA assay (KARF1991) and 25OH Vitamin D Total ELISA assay (KAP1971).

- TANGPRICHA V. (2015)

Free 25-Hydroxyvitamin D Concentrations in Cystic Fibrosis.

Am J Med Sci 2015 Nov;350(5):374-9.

Author:

Nicolas Heureux, PhD

Nicolas.Heureux@diasource.be

Principal Scientist – Vitamin D, DIAsource Immunoassays

DIAsource ImmunoAssays S.A.

Rue du Bosquet, 2 | B-1348 Louvain-La-Neuve | Tel : +32.10.84.99.11 | Fax : +32.10.84.99.90

www.diasource.be



Free 25OH Vitamin D was measured with the Future Diagnostics Free 25OH Vitamin D ELISA assay which is exclusively distributed by DIASource (KARF1991).

- ŠITKAUSKIENĖ B. (2015)
Evaluation of vitamin D levels in allergic and non-allergic asthma.
Medicina 51, 321–327.

25OH Vitamin D was measured with the DIASource 25OH Vitamin D Total ELISA assay (KAP1971).

- GROSEANU L. (2015)
Low vitamin D status in systemic sclerosis and the impact on disease phenotype.
Eur. J. Rheumatol., DOI: 10.5152/eurjrheum.2015.0065.

25OH Vitamin D was measured with the DIASource 25OH Vitamin D Total ELISA assay (KAP1971).

- ROOMI M.A. (2015)
Hypovitaminosis D and its association with lifestyle factors.
Pak. J. Med. Sci., 31(5): 1236-1240.

25OH Vitamin D was measured with the DIASource 25OH Vitamin D Total ELISA assay (KAP1971).

33

- DAHIFAR H. (2015)
Vitamin D Status in Islamic Lactating Women and Impact of Vitamin D Injection.
American Journal of Food Science and Health Vol. 1, No. 3, pp. 92-95.

25OH Vitamin D was measured with the DIASource 25OH Vitamin D Total ELISA assay (KAP1971).

- GUMUSDERE M. (2015)
The effect of inflammatory cytokines and the level of vitamin D on prognosis in Crimean-Congo hemorrhagic fever.
Int J Clin Exp Med ;8(10):18302-18310.

25OH Vitamin D was measured with the DIASource 25OH Vitamin D Total ELISA assay (KAP1971).

- SOLLID S.T. (2016)
Effects of vitamin D binding protein phenotypes and vitamin D supplementation on serum total 25(OH)D and directly measured free 25(OH)D.
Eur. J. Endocrinol. April 1, 174:445-452.

Free 25OH Vitamin D was measured with the DIASource Free 25OH Vitamin D ELISA assay (KARF1991).

Author:

Nicolas Heureux, PhD
Nicolas.Heureux@diasource.be
Principal Scientist – Vitamin D, DIASource Immunoassays
DIASource ImmunoAssays S.A.
Rue du Bosquet, 2 | B-1348 Louvain-La-Neuve | Tel : +32.10.84.99.11 | Fax : +32.10.84.99.90
www.diasource.be



- ABDELGADIR E.I.E. (2016)

Vitamin D Deficiency, the Volume of the Problem in the United Arab Emirates. A Cohort from the Middle East.

J. Endocrinol. Diab. 3(1): 1-5.

25OH Vitamin D was measured with the DIAsource 25OH Vitamin D Total RIA assay (KIP1971).

- FATIMA S.S. (2016)

Reciprocal Relation of Feto- in-A and Beta Crosslaps with Bone Health.

J Orthop Res Physiother 2: 024.

25OH Vitamin D was measured with the DIAsource 25OH Vitamin D Total ELISA assay (KAP1971).

- MAYBODI F.R. (2016)

Association between serum levels of vitamin D and chronic periodontitis in premenopausal women in Yazd.

Caspian J Dent Res-March, 5(1): 47-51.

25OH Vitamin D was measured with the DIAsource 25OH Vitamin D Total ELISA assay (KAP1971).

34

- ALA S. (2016)

Effect of Vitamin D on Stress-induced Hyperglycaemia and Insulin Resistance in Critically Ill Patients.

Int. J. Clin. Pract., 70(5): 396-405.

25OH Vitamin D was measured with the DIAsource 25OH Vitamin D Total ELISA assay (KAP1971).

- SHARIF M.R. (2016)

Fatigue and Vitamin D Status in Iranian Female Nurses.

Global Journal of Health Science; Vol. 8, No. 6.

25OH Vitamin D was measured with the DIAsource 25OH Vitamin D Total ELISA assay (KAP1971).

- LONE K.P. (2016)

Quantitative ultrasound bone profile and vitamin D status in 5-11 years old children with intellectual disability.

J. Pak. Med. Assoc., 66(6): 694-698.

25OH Vitamin D was measured with the DIAsource 25OH Vitamin D Total ELISA assay (KAP1971).

Author:

Nicolas Heureux, PhD

Nicolas.Heureux@diasource.be

Principal Scientist – Vitamin D, DIAsource Immunoassays

DIAsource ImmunoAssays S.A.

Rue du Bosquet, 2 | B-1348 Louvain-La-Neuve | Tel : +32.10.84.99.11 | Fax : +32.10.84.99.90

www.diasource.be



- BOUILLON R. (2016)

Free 25-hydroxyvitamin D: impact of vitamin D binding protein assays on racial-genotypic associations.

JCEM, <http://dx.doi.org/10.1210/jc.2016-1104>.

Free 25OH Vitamin D was measured with the DIAsource Free 25OH Vitamin D ELISA assay (KARF1991).

- OSPINA-CAICEDO A. (2016)

Levels of 25-OH-vitamin D, immunoglobulins, anti DNA, complement and clinical activity in patients with Systemic Lupus Erythematosus.

Poster presented at the XIX Congress of the Pan American League of Associations of Rheumatology, 10-14 April 2016, Panama City.

25OH Vitamin D was measured with the DIAsource 25OH Vitamin D Total ELISA assay (KAP1971).

- WALSH J.S. (2016)

Free 25-hydroxyvitamin D is low in obesity, but there are no adverse associations with bone health.

N. Engl. J. Med. 374(17): 1695-1696.

Free 25OH Vitamin D was measured with the DIAsource Free 25OH Vitamin D ELISA assay (KARF1991).

- POLLARD S.L. (2016)

Measured Free 25(OH)D But Not Total 25(OH)D Is Associated With Atopy And Measures Of Pulmonary Function In Peruvian Children With Asthma.

American Thoracic Society International Conference Abstracts > A106.

Free 25OH Vitamin D was measured with the DIAsource Free 25OH Vitamin D ELISA assay (KARF1991).

- SCHWARTZ J.B. (2016)

Response of Vitamin D Concentration to Vitamin D3 Administration in Older Adults without Sun Exposure: A Randomized Double-Blind Trial.

Journal of the American Geriatrics Society, 64(1), 65–72.

Free 25OH Vitamin D was measured with the DIAsource Free 25OH Vitamin D ELISA assay (KARF1991).

- HEWISON M. (2016)

Differential responses to vitamin D2 and vitamin D3 are associated with variations in free 25-hydroxyvitamin D.

Author:

Nicolas Heureux, PhD

Nicolas.Heureux@diasource.be

Principal Scientist – Vitamin D, DIAsource Immunoassays

DIAsource ImmunoAssays S.A.

Rue du Bosquet, 2 | B-1348 Louvain-La-Neuve | Tel : +32.10.84.99.11 | Fax : +32.10.84.99.90

www.diasource.be



Endocrinology, Jul 11;en20161139.

Free 25OH Vitamin D was measured with the DIASource Free 25OH Vitamin D ELISA assay (KARF1991).

- PITTAS A.G. (2016)

Vitamin D status of black and white Americans and changes in vitamin D metabolites after varied doses of vitamin D supplementation.
Am. J. Clin. Nutr., 104(1): 205-14.

Free 25OH Vitamin D was measured with the DIASource Free 25OH Vitamin D ELISA assay (KARF1991).

- OWOLABI O. (2016)

Elevated serum 25-hydroxy (OH) vitamin D levels are associated with risk of TB progression in Gambian adults.
Tuberculosis (Edinb). 2016 May; 98: 86–91.

25OH Vitamin D was measured with the DIASource 25OH Vitamin D ELISA assay (KAP1971 or KAP1971/F1).

- HACIHAMDIOĞLU D.O. (2016)

The Association between Serum 25-Hydroxy Vitamin D Level and Urine Cathelicidin in Children with a Urinary Tract Infection.
J Clin Res Pediatr Endocrinol 2016;8(3):325-329.

25OH Vitamin D was measured with the DIASource 25OH Vitamin D ELISA assay (KAP1971 or KAP1971/F1).

- KHALILI H. (2016)

Effect of Vitamin D on Stress-induced Hyperglycaemia and Insulin Resistance in Critically Ill Patients.
Int J Clin Pract. 2016;70(5):396-405.

25OH Vitamin D was measured with the DIASource 25OH Vitamin D ELISA assay (KAP1971 or KAP1971/F1).

- YANCHEVA N. (2016)

Deficiency of Vitamin D in HIV Infected Patients and Its Effect on Some of the Biochemical Parameters.
Volume 1 Issue 1 RHRIOA-1-001.

25OH Vitamin D was measured with the DIASource 25OH Vitamin D RIA assay (KIP1971).

- LONE K.P. (2016)

Author:

Nicolas Heureux, PhD

Nicolas.Heureux@diasource.be

Principal Scientist – Vitamin D, DIASource Immunoassays

DIASource ImmunoAssays S.A.

Rue du Bosquet, 2 | B-1348 Louvain-La-Neuve | Tel : +32.10.84.99.11 | Fax : +32.10.84.99.90

www.diasource.be



Serum vitamin D levels and gene polymorphisms (Fok1 and Apa1) in children with type I diabetes and healthy controls.
JPMA 66: 1215; 2016.

25OH Vitamin D was measured with the DIAsource 25OH Vitamin D ELISA assay (KAP1971 or KAP1971/F1).

- JEON G.W. (2016)
Vitamin D Status in Early Preterm Infants.
Neonatal Med. 2016 Aug;23(3):143-150.

25OH Vitamin D was measured with the DIAsource 25OH Vitamin D3 RIA assay (KIP1961).

- GHASSEMI F. (2016)
The Effect of Vitamin D Supplementation on the Glycemic Status and the Percentage of Body Fat Mass in Adults with Prediabetes: A Randomized Clinical Trial.
Iran Red Crescent Med J. In press(In press):e41718.

25OH Vitamin D was measured with the DIAsource 25OH Vitamin D Total ELISA assay (KAP1971).

- CHUDEK J. (2016)
C-Terminal to Intact Fibroblast Growth Factor 23 Ratio in Relation to Estimated Glomerular Filtration Rate in Elderly Population.
Kidney Blood Press Res 2016;41:519-526.

25OH Vitamin D was measured with the DIAsource 25OH Vitamin D3 RIA assay (KIP1961).

- SRIDHAR M.G. (2016)
Association of Serum Vitamin D Levels with Bacterial Load in Pulmonary Tuberculosis Patients.
Tuberc Respir Dis 2016;79:153-157.

25OH Vitamin D was measured with the DIAsource 25OH Vitamin D Total ELISA assay (KAP1971).

- HANIF F. (2016)
Vitamin D Level in Unmarried Females with Polycystic Ovarian Syndrome.
JIIMC 2016 Vol. 11, No.2.

25OH Vitamin D was measured with the DIAsource 25OH Vitamin D Total ELISA assay (KAP1971).

Author:

Nicolas Heureux, PhD
Nicolas.Heureux@diasource.be
Principal Scientist – Vitamin D, DIAsource Immunoassays
DIAsource ImmunoAssays S.A.
Rue du Bosquet, 2 | B-1348 Louvain-La-Neuve | Tel : +32.10.84.99.11 | Fax : +32.10.84.99.90
www.diasource.be



-
- JAWIARCZYK-PRZYBYŁOWSKA A. (2016)
Soluble a-Klotho — a new marker of acromegaly activity?
Endokrynol Pol 2016; 67 (4): 390–396

25OH Vitamin D was measured with the DIAsource 25OH Vitamin D3 RIA assay (KIP1961).

Author:

Nicolas Heureux, PhD

Nicolas.Heureux@diasource.be

Principal Scientist – Vitamin D, DIAsource Immunoassays

DIAsource ImmunoAssays S.A.

Rue du Bosquet, 2 | B-1348 Louvain-La-Neuve | Tel : +32.10.84.99.11 | Fax : +32.10.84.99.90

www.diasource.be



Ordering Information

Description	Article code	Format
25OH Vitamin D Total ELISA	KAP1971	ELISA
25OH Vitamin D Total RIA	KIP1971	RIA
25OH Vitamin D3 RIA	KIP1961	RIA
Rat 25OH Vitamin D Total ELISA (RUO)	KRR1971	ELISA
Free 25OH Vitamin D ELISA (RUO)	KARF1991	ELISA
1,25(OH) ₂ Vitamin D ELISA	KAP1921	ELISA
1,25(OH) ₂ Vitamin D RIA	KIP1929	RIA



Headquarter

DIAsource ImmunoAssays S.A.
Rue du Bosquet, 2
1348 Louvain-La-Neuve
Belgium
Tel: +32 10849911
Fax: +32 10849990

Customer Service

Tel: +32 10849900
Fax: +32 10849996
Belgium Free Phone: 0800 159 59
France Free Phone: 0800 908 443
France Free Fax: 0800 902 588
Customer.Service@diasource.be