Louvain-la-Neuve, September 7th 2016

FREE VITAMIN D MONTHLY NEWSLETTER – SEPTEMBER 2016

Free 25OH Vitamin D publication list by disease field

Dear Valued Distributor,

In order to help you to target the right clinicians and research groups we have listed the publications on free 25OH Vitamin D by disease field / condition.

The availability of a direct measurement method from DIAsource allows for a simple and accurate quantification of free 25OH Vitamin D concentrations, hence stimulating the research around this critical parameter.

Take a look at the list of publications by main disease field / condition:

- Obesity / Insulin (5)
  - HOLICK M. (2000)
    Decreased bioavailability of vitamin D in obesity.
    Am. J. Clin. Nutr., 72:690–693.
  - 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.
  - 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.
  - 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.
  - 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.
- Pregnancy (4)
  - THADHANI R. (2010)
    First trimester vitamin D, vitamin D binding protein, and subsequent preeclampsia.
    Hypertension, 56(4):758-63.
  - BIKLE D. (2013)
    Variability in free 25(OH) vitamin D levels in clinical populations.
    J. Steroid Biochem. Mol. Biol., S0960-0760.
  - 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.
  - 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.
- Liver disease (5)
  - 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.
  - REESE P.P. (2012)
    Changes in vitamin D binding protein and vitamin D concentrations associated with liver transplantation.
    Liver Int., 32(2):287-96.
  - BIKLE D. (2013)
    Variability in free 25(OH) vitamin D levels in clinical populations.
    J. Steroid Biochem. Mol. Biol., S0960-0760.
  - 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.
  - 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.

- Renal disease (5)

  - COYNE D.W. (2012)
  Bioavailable vitamin D in chronic kidney disease.
  Kidney Int., 82:5–7.
  - 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.
  - DENBURG M.R. (2013)
  Vitamin D bioavailability and catabolism in pediatric chronic kidney disease.
  Pediatr. Nephrol., 28:1843–1853.
  - 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.
  - 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.

- Intensive care / Critical illness (3)

  - QURAISHI S.A. (2012)
  Vitamin D in acute stress and critical illness.
  Curr. Opin. Clin. Nutr. Metab. Care, 15(6):625-34.
  - DE PASCALE G. (2014)
  Vitamin D status in critically ill patients: the evidence is now bioavailable!
  Critical Care, 18:449.
  - 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.

- Osteoporosis / Bone mineral density (5)

  - DATTA H.K. (2006)
  Assessment of Vitamin D Status in Male Osteoporosis.
  Clin. Chem., 52(2):248–254.
  - THADHANI R. (2011)
  Vitamin D–Binding Protein Modifies the Vitamin D–Bone Mineral Density Relationship.
  J. Bone Miner. Res., 26(7):1609–1616.
  - 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.
  - NIMITPHONG H. (2015)
  Relationship of vitamin D status and bone mass according to vitamin D-binding protein genotypes.
  Nutrition Journal 14:29.
  - 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.

- Cancer (4)

  - 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.
  - 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.
  - 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.
  - 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.

Other studies have been published in the fields of the use of oral contraceptives (1), hormone replacement therapy (1), inflammatory disease (1), primary hyperparathyroidism (1), respiratory disease (3), falls / hip fractures (3), multiple sclerosis (2), cardiovascular disease (1), HIV (1), premature infants (1), cystic fibrosis (1).

Free 25OH Vitamin D

More and more studies support the importance of free 25OH Vitamin D, suggesting that this fraction of 25OH Vitamin D is, in certain cases, a better measurement of Vitamin D status rather than the total 25OH Vitamin D.

Several research groups have therefore called for a direct measurement of free 25OH Vitamin D, instead of using inaccurate calculation methods.

Yours truly,

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