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Association of vitamin-D and knee osteoarthritis in younger indiv



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Association between serum vitamin D deficiency and knee ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3193973>

Dec 30, 2010 · Therefore, **younger individuals** are more dependent on **vitamin D** and are thus expected to be more sensitive to **serum 25-OHD deficiency**. It is unclear whether age by itself or the **degree of OA** which presumably is less severe in **younger patients**, or other factors, can explain the **observed association**.

Cited by: 136

Author: Behzad Heidari, Parham Heidari, Karaim...

Publish Year: 2011

(PDF) Association of vitamin D and knee osteoarthritis – A ...

https://www.researchgate.net/publication/314260919_Association_of_vitamin_D_and_knee...

PDF | **Osteoarthritis (OA)** is a progressively degenerating joint disease primarily affecting the weight-bearing joints of the body. The precise... | Find, read and cite all the research you need on ...

The Association of Serum 25-Hydroxyvitamin D Status in ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4784183>

African American individuals synthesize less **vitamin D per unit** of sun exposure than **White individuals** because a darker complexion acts as a barrier to sunlight.[13,14] Furthermore, racial difference in variable; **vitamin D receptor affinity** for **vitamin D metabolites** may explain a similar variation in the prevalence of **low vitamin D** across other races with the observation of at least one **vitamin D receptor polymorphism** ...

Author: Celine Ward, Krysta Contino, Akshar...

Publish Year: 2016

PEOPLE ALSO ASK

What is osteoarthritis of the knee?





Association of vitamin-D and knee osteoarthritis in younger individ



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A significant association between **serum vitamin D and developing knee osteoarthritis**. Based on vitamin D levels, most of patients with vitamin D deficiency were in stages III and IV osteoarthritis. The findings of the study suggest that vitamin D deficiency should be considered in patients with osteoarthritis and treated accordingly.

[Researchers Say Knee Osteoarthritis Patients Need Vitamin D](#)
[drmagaziner.com/knee-pain/researchers-say-knee-osteoarthritis-patients-need-vita...](#)

Was this helpful? 👍 👎

PEOPLE ALSO ASK

- What is the best vitamin for knee osteoarthritis? ▾
- What is the role of vitamin D in osteoarthritis? ▾
- What happens if you have osteoarthritis in your knee? ▾
- How is an osteotomy done to treat knee osteoarthritis? ▾

Feedback

Association between serum vitamin D deficiency and knee ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3193973>

Dec 30, 2010 · The association of serum 25-OHD deficiency with knee OA in lower age groups may be explained by greater bone health and higher activity of bone remodelling in younger than in older persons. **Healthy remodelling** requires the availability of adequate **vitamin D**.

Cited by: 143 Author: Behzad Heidari, Parham Heidari, Karaim ...
Publish Year: 2011

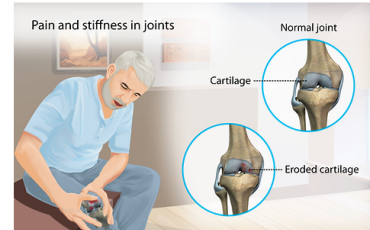
(PDF) Association of vitamin D and knee osteoarthritis – A ...

<https://www.researchgate.net/publication/314260919...>

Due to the apparent conflicting effects of vitamin D in knee OA, further research is required to fully

Osteoarthritis

Medical Condition



Inflammation of one or more joints.

- 🏠 Very common (More than 3 million cases per year in US)
- 👨‍⚕️ Often requires lab test or imaging
- 💊 Treatments can help manage condition, no known cure
- 🕒 Can last several years or be lifelong

Osteoarthritis is the inflammation or loss of cartilage in the joints caused due to wear and tear. Symptoms include pain and stiffness in the joints, swelling, warm and tender joints and limited movement of affected joints. Medications, therapies, and surgeries help reduce inflammation and pain.

Symptoms


Symptoms will appear and disappear in episodes but in severe cases, it is continuous. A person with osteoarthritis may experience the following symptoms:

- Pain and stiffness of joints (hand, knees, hip)

16-Aug-2020 11:49AM

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FAQ

55705-Review-check.docx

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Name of Journal: *World Journal of Orthopedics*

Manuscript NO: 55705

Manuscript Type: ORIGINAL ARTICLE

Basic Study

Association of vitamin-D and knee osteoarthritis in younger individuals

Tripathy SK *et al.* Vitamin-D and knee osteoarthritis

Sujit Kumar Tripathy, Amrit Gantaguru, Saurav Narayan Nanda, Anand Srinivasan, Manaswini Mangaraj

Abstract

AIM

To look for the association of serum vitamin-D in younger knee osteoarthritis (KOA) patients.

METHODS

In a 2-year observational study, 146 non-obese KOA patients of 35-60 years were

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
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Association between serum vitamin D deficiency and knee ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3193973>

Dec 30, 2010 · **Vitamin D deficiency** is a common problem worldwide [1, 2]. While sufficient levels of **serum vitamin D** decrease the risk of many chronic illnesses, its inadequacy is associated with multiple pathological conditions including **osteoarthritis (OA)** [3, 4]. **Vitamin D status** influences the incidence and progression of **knee OA**.

Cited by: 144

Author: Behzad Heidari, Parham Heidari, Karaim...

Publish Year: 2011

Vitamin D and Its Effects on Articular Cartilage and ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5480771>

Jun 20, 2017 · **Vitamin D and Osteoarthritis**. The efficacy of **vitamin D in treating or preventing OA** is controversial (Table 1). Some authors have found that **vitamin D deficiency** increases the risk of patients' developing OA.

Cited by: 10

Author: Rachel J. Garfinkel, Matthew F. Dilisio, ...

Publish Year: 2017

(PDF) Association of vitamin D and knee osteoarthritis – A ...

https://www.researchgate.net/publication/314260919_Association_of_vitamin_D_and_knee...

Due to the apparent conflicting **effects of vitamin D in knee OA**, further research is required to fully elucidate its role in the **development and progression of the disease**.

Association of vitamin D status with knee pain and ...

<https://www.sciencedirect.com/science/article/pii/S1063458411002330>

Nov 01, 2011 · A recent study has also shown that **serum 25 (OH)D** levels were associated with **decreased knee cartilage loss** 28, but **Hunter et al.** found that there was no significant association between vitamin D levels and knee osteophytes after adjusting for age, **body mass index (BMI)** and relatedness25.