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Name of Journal: *World Journal of Clinical Cases*

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Manuscript Type: CASE REPORT

Subchondral bone as a novel target for regenerative therapy of osteochondritis dissecans: A case report

Zhang SY *et al.* Subchondral bone as a target for osteochondritis dissecans

Sheng-Yang Zhang, Hui-Hui Xu, Miao-Miao Xiao, Jing-Jing Zhang, Qiang Mao, Bang-Jian He, Pei-Jian Tong

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[\(PDF\) A novel aragonite-based scaffold for osteochondral ...](https://www.researchgate.net/publication/312420112...)

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The purpose of this study was to evaluate the in vitro osteogenic potential of the bone phase of a novel aragonite-based bi-phasic osteochondral scaffold (Agili-C™, CartiHeal Ltd.) using adult ...

[Perspectives on Synthetic Materials to Guide Tissue ...](https://pubs.acs.org/doi/10.1021/acsbiomaterials.0c00753)

<https://pubs.acs.org/doi/10.1021/acsbiomaterials.0c00753>

Regenerative engineering holds the potential to treat clinically pervasive osteochondral defects (OCDs). In a synthetic materials-guided approach, the scaffold's chemical and physical properties alone instruct cellular behavior in order to effect regeneration, referred to herein as "instructive" properties. While this alleviates the costs and off-target risks associated with exogenous ...

Cited by: 1

Author: Michael T. Frassica, Melissa A. Grunlan

Publish Year: 2020

[A Review of Knowledge in Osteochondritis Dissecans: 123 ...](https://www.researchgate.net/publication/221858767_A_Review_of_Knowledge_in...)

https://www.researchgate.net/publication/221858767_A_Review_of_Knowledge_in...

Osteochondritis dissecans (OCD) of the knee is a disorder of multifactorial origin that affects the subchondral bone, leading to collapse and damage to overlying articular cartilage. 5, 14, 21,25 ...

[Transplantation of autologous bone marrow-derived ...](https://www.sciencedirect.com/science/article/pii/S2352320419300616)

<https://www.sciencedirect.com/science/article/pii/S2352320419300616>

Dec 01, 2019 · 1. Introduction. Articular cartilage lesions in the knee can cause pain and swelling , and increase the risk of osteoarthritis .The healing potential of articular cartilage is very low with conservative treatment .Currently, conventional surgical treatment for articular cartilage defects is bone marrow stimulation in which the subchondral bone is perforated to facilitate cartilage repair by ...

Cited by: 11

Author: Yusuke Hashimoto, Yohei Nishida, Shinji ...

Publish Year: 2019

[ECR 2018 - BOOK OF ABSTRACTS - PDF Free Download](https://slideheaven.com/ecr-2018-book-of-abstracts.html)

<https://slideheaven.com/ecr-2018-book-of-abstracts.html> ▾

Osteoid osteoma is a benign inflammatory bone tumor encompassing 2-3% of all bone tumors and 10% of benign bone tumors; it is most common in males 25 years of age with patients typically complaining of pain that worsens at night and is promptly relieved by salicylates. The tumor was first reported by Jaffe

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(PDF) Osteochondritis dissecans with subchondral bone cyst ...

<https://www.researchgate.net/publication/40445350...>

Osteochondritis dissecans (OCD) with a large **subchondral bone cyst (SBC)** is not common. The **treatment** of this **lesion** may be unsuccessful with conventional techniques. A **novel surgical technique** is...

A multilayer biomaterial for osteochondral regeneration ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6105149>

The increasing awareness on the role of **subchondral bone** in the etiopathology of articular surface lesions may explain the limits of the current **regenerative** procedures, which have been developed to **target** only the chondral layer [9, 24]. **Subchondral bone** may be involved in the pathological process not only primarily, such as in **osteochondritis** ...

Cited by: 24**Author:** Elizaveta Kon, Giuseppe Filardo, Mats ...**Publish Year:** 2018

Repair of large osteochondritis dissecans lesions using a ...

<https://onlinelibrary.wiley.com/doi/10.1002/term.2173>

May 20, 2016 · Ultrasonographically, the defects were filled with **bone** and covered with an overlying cartilaginous layer, with the trochlear ridge contour almost entirely restored. This **report** demonstrates the effective clinical use of this **novel**, multilayered, osteochondral defect repair scaffold in the **treatment of osteochondritis dissecans** of an equine ...

Cited by: 10**Author:** J. David Stack, Tanya J. Levingstone, T...**Publish Year:** 2017

A MODERN TREATMENT OF BILATERAL OSTEOCHONDritis ...

<https://www.researchgate.net/publication/308613209...>

Osteochondritis dissecans of the knee primarily affects **subchondral bone**, with a secondary effect on the overlying articular cartilage. This process can lead to pain, effusions, and loose body ...

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[Subchondral Bone Remodeling: A Therapeutic Target for ...](#)

<https://europepmc.org/article/PMC/PMC7859330> ▾

There is emerging awareness that **subchondral bone** remodeling plays an important role in the development of osteoarthritis (OA). This review presents recent investigations on the cellular and molecular mechanism of **subchondral bone** remodeling, and summarizes the current interventions and potential therapeutic **targets** related to OA **subchondral bone** remodeling.

[\(PDF\) Osteochondritis dissecans with subchondral bone cyst ...](#)

<https://www.researchgate.net/publication/40445350...>

Osteochondritis dissecans (OCD) associated with a large **subchondral bone cyst** is occasionally encountered in the ankle 1,2) and knee, 3) but has not been reported in the elbow. We had an...

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Can PT help osteochondritis dissecans? ▾

What is the treatment for knee osteochondritis? ▾

What is osteochondritis prolotherapy? ▾

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[Osteochondritis Dissecans Treatment – Caring Medical Florida](#)

<https://www.caringmedical.com/prolotherapy-results/...> ▾

Osteochondritis dissecans involves the separation of a segment of cartilage and subchondral bone, found most commonly in the knee, elbow, ankle and hip. Repetitive microtrauma from sports is a common cause especially among older adolescents and teenagers. To provide stability of the articular cartilage fragment, rest, splinting to surgery is often prescribed.

[A MODERN TREATMENT OF BILATERAL OSTEOCHONDRITIS ...](#)

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