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**Name of Journal:** *World Journal of Stem Cells***Manuscript NO:** 53592**Manuscript Type:** REVIEW**Bone marrow-derived products: A classification proposal – bone marrow aspirate, bone marrow aspirate concentrate or Hybrid?**

Joseph Purita, José Fábio Santos Duarte Lana, Morey Kolber, Bruno Lima Rodrigues, Tomas Mosaner, Gabriel Silva Santos, Carolina Caliar-Oliveira, Stephany Cares Huber

**Abstract**

Degenerative musculoskeletal disorders are one of the top causes of pain and disability in the adult population. Current available alternatives to mitigate

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Bone marrow-derived products: A classification proposal – bo



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## Concentrated Bone Marrow Aspirate

[https://www.terumobct.com/Pages/Autologous Biologics/BMAC.aspx](https://www.terumobct.com/Pages/Autologous%20Biologics/BMAC.aspx) ▾

A systematic review of the concept and clinical applications of **bone marrow aspirate concentrate** in orthopaedics. SICOT J. 2017;3(17):1-8. 20 Marx R, Harrell D. Translational research: The CD34+ cell is crucial for large-volume **bone** regeneration from the milieu of **bone marrow** progenitor cells in craniomandibular reconstruction.

## Concentrated Bone Marrow Aspirate for the Treatment of ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4714134>

Jan 13, 2016 · Background: **Bone marrow aspirate concentrate** (BMAC) has emerged as a novel treatment for pathology of the knee. Despite containing a limited number of stem cells, BMAC serves as a source of growth factors that are thought to play an important role as a result of their anabolic and anti-inflammatory effects.

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**Publish Year:** 2016

## Bone marrow aspirate concentrate for the treatment of ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5095091>

Nov 04, 2016 · The goal of this perform a systematic review on the outcomes of **bone marrow aspirate**

## Bone marrow

Semi-Solid Tissue

Bone marrow is a semi-solid tissue which may be found within the spongy or cancellous portions of bones. In birds and mammals, bone marrow is the primary site of new blood cell production or hematopoiesis. It is composed of hematopoietic cells, marrow adipose tissue, and supportive stromal cells. In adult humans, bone marrow is primarily located in th... +



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## Concentrated Bone Marrow Aspirate

[https://www.terumobct.com/Pages/Autologous Biologics/BMAC.aspx](https://www.terumobct.com/Pages/Autologous%20Biologics/BMAC.aspx) ▾

**Bone Marrow Aspirate (BMA)** BMA is derived from a patient's bone marrow. It contains a heterogeneous mix of **white blood cells—including stem cells, progenitor cells**, lymphocytes and **granulocytes—and platelets**.

## Concentrated Bone Marrow Aspirate for the Treatment of ...

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## Bone marrow biopsy and aspiration - Mayo Clinic

<https://www.mayoclinic.org/tests-procedures/bone-marrow-biopsy/about/pac-20393117> ▾

**Bone marrow** has a fluid portion and a more solid portion. In **bone marrow** biopsy, your doctor uses a needle to withdraw a sample of the solid portion. In **bone marrow aspiration**, a needle is used to