

## Match Overview

- | Rank | Source   | Words    | Crawled On   | Similarity |
|------|----------|----------|--|------------|
| 1    | Internet | 16 words | crawled on 16-Aug-2020<br><a href="http://www.scilit.net">www.scilit.net</a>             | 1%         |
| 2    | Internet | 12 words | crawled on 17-Jan-2021<br><a href="http://pesquisa.bvsalud.org">pesquisa.bvsalud.org</a> | 1%         |

**Name of Journal:** *World Journal of Transplantation*

**Manuscript NO:** 62228

**Manuscript Type:** MINIREVIEWS

### Transplantation of CD34+ cells for myocardial ischemia

Matta A *et al.* CD34+ for myocardial ischemia

#### Abstract

CD34+ cells are multipotent hematopoietic stem cells also known as endothelial progenitor cells and are useful in regenerative medicine. Naturally, these cells are mobilized from the bone marrow into peripheral circulation in response to ischemic tissue injury. CD34+ cells are known for their high proliferative and differentiation capacities that play a crucial role in the repair process of myocardial damage. They have an important paracrine activity in secreting factors to stimulate vasculogenesis, reduce endothelial cells and cardiomyocytes apoptosis, remodel extracellular matrix and activate additional progenitor cells. Once they migrate to the target site, they enhance





ALL

IMAGES

VIDEOS

1,140,000 Results

Any time ▼

In **ischemic** heart disease, Losordo et al have shown that **intramyocardial transplantation** of **CD34+ cells** induces decrease in total severity stress score on **myocardial** perfusion imaging in patients with refractory angina.<sup>2</sup> Interestingly, significant improvement in **myocardial** perfusion and patient performance in terms of exercise time and angina frequency was observed only in patients with low-dose stem **cell** therapy ( $1 \times 10^5$  /kg vs  $5 \times 10^5$ /kg for high-dose therapy).

Cited by: 31

Publish Year: 2015

[Intracoronary Transplantation of CD34+ Cells Is Associated ...](#)[www.sciencedirect.com/science/article/pii/S1071916414012792](http://www.sciencedirect.com/science/article/pii/S1071916414012792)

Was this helpful?

[Intramyocardial transplantation of autologous endothelial ...](#)<https://pubmed.ncbi.nlm.nih.gov/12551872>

These favorable outcomes encourage future clinical trials of catheter-based, **intramyocardial** transplantation of **autologous** CD34+ MNCs in the setting of chronic myocardial ischemia. **Intramyocardial** transplantation of **autologous** endothelial progenitor cells for therapeutic neovascularization of myocardial ischemia

Cited by: 873

Author: Atsuhiko Kawamoto, Tengis Tkebuchava, J...

Publish Year: 2003

[Human primary CD34+ cells transplantation for critical ...](#)





ALL

IMAGES

VIDEOS

MAPS

NEWS

SHOPPING

TOOLS ▾

## Intracoronary transplantation of CD34(+) cells is associated with improved myocardial perfusion in patients with nonischemic dilated cardiomyopathy

**Author:** Tina Binesh Marvasti, Faisal J. Alibhai, Richard D. Weisel, Richard D. Weisel, Ren-Ke Li, Ren-Ke Li

**Cited by:** 5

**Publish Year:** 2019

### CD34+ Stem Cells: Promising Roles in Cardiac Repair and ...

[www.sciencedirect.com/science/article/pii/S0828282X19303873](http://www.sciencedirect.com/science/article/pii/S0828282X19303873)

Was this helpful?

## Intramyocardial transplantation of autologous endothelial ...

<https://pubmed.ncbi.nlm.nih.gov/12551872>

These favorable outcomes encourage future clinical trials of catheter-based, **intramyocardial** transplantation of **autologous** CD34+ MNCs in the setting of chronic myocardial ischemia.

**Intramyocardial** transplantation of **autologous** endothelial progenitor cells for therapeutic neovascularization of myocardial ischemia

**Cited by:** 873

**Author:** Atsuhiko Kawamoto, Tengis Tkebuchava, J...

**Publish Year:** 2003

## [PDF] Intramyocardial Transplantation of Autologous Endothelial ...

<https://www.ahajournals.org/doi/pdf/10.1161/01.cir.0000046450.89986.50>

of autologous CD34 MNCs in the setting of chronic myocardial ischemia. (Circulation. 2003;107:461-468.)

**Key Words:** **transplantation cells catheters ischemia vasculogenesis Endothelial progenitor cells** (EPCs) were first isolated as CD34 mononuclear cells (MNCs) from adult periph-eral blood.1,2 Tissue **ischemia** mobilizes EPCs from bone

## Comparison of transendocardial and intracoronary CD34 ...

<https://pubmed.ncbi.nlm.nih.gov/24030420>

**Conclusions:** In patients with **dilated cardiomyopathy**, transendocardial CD34(+) cell transplantation is associated with higher myocardial retention rates and greater improvement in ventricular function, N-terminal pro-brain natriuretic peptide, and exercise capacity compared with intracoronary route.

**Cited by:** 150

**Author:** Bojan Vrtovec, Gregor Poglajen, Luka Lezai...

**Publish Year:** 2013

## Related searches

cd34 cells **stem cell transplant**

**hematopoietic stem cell** cd34

cd34 cell **therapy**

**human** cd34 cells

cd34 **stem** cells

cd34 **positive** cells **bone marrow**

**positive** cd34 cells

cd34 cell **marker**