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**Haemolysis in patients with ventricular assist devices: major differences between systems**[\[HTML\] oup.com](#)

C Heilmann, U Geisen, C Benk... - European journal of ..., 2009 - academic.oup.com

... Higher degrees of **haemolysis** cause **complete** loss of HAPT ... In this study, we conduct an **analysis** of **haemolysis** in patients with different VAD types by assessment of ... that is, a implantable centrifugal pump [7] and an implantable axial pump [8] and a paracorporeal pneumatic ...

 Cited by 94 [Related articles](#) [All 9 versions](#)**Hemolysis in left ventricular assist device: a retrospective analysis of outcomes**[\[HTML\] jhltonline.org](#)AK Ravichandran, J Parker, E Novak... - The Journal of **Heart** and ..., 2014 - Elsevier

Background **Hemolysis** is becoming increasingly recognized as a major complication of left **ventricular assist device** (LVAD) support. Data regarding risk factors, prevalence, and outcomes are limited. To better define the characteristics and prognosis of **hemolysis**, we ...

 Cited by 74 [Related articles](#) [All 7 versions](#)**Ambient hemolysis and activation of coagulation is different between HeartMate II and HeartWare left ventricular assist devices**[\[HTML\] jhltonline.org](#)I Birschmann, M Dittich, T Eller, B Wiegmann... - The Journal of **Heart** and ..., 2014 - Elsevier

... For 20 patients with LVAD support (n = 10 each), plasma coagulation, **full** blood count ... motivate continued research and larger cohorts to obtain a more **detailed** understanding of ... impaired von Willebrand factor-dependent platelet aggregation in patients with a continuous-flow left ...

 Cited by 90 [Related articles](#) [All 5 versions](#)**A quantitative comparison of mechanical blood damage parameters in rotary ventricular assist devices: shear stress, exposure time and hemolysis index**[\[HTML\] nih.gov](#)

KH Fraser, T Zhang, ME Taskin... - Journal of ..., 2012 - asmedigitalcollection.asme.org

... manifests as morphological changes, shortened life span, biochemical alterations, and **complete** rupture ... shear stress in different regions of VADs, particularly for design **analysis** or improvement ...

A scalar transport model for **hemolysis** was then used to compare **hemolysis** indices ...

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Comprehensive review of hemolysis in ventricular assist c



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## Hemolysis in left ventricular assist device: A ...

<https://www.sciencedirect.com/science/article/pii/S1053249813014150>

A detailed **record review** was conducted of 18 patients supported with the HeartMate II (HMII; Thoratec Corp, Pleasanton, CA) who were diagnosed with **hemolysis**, and their data were compared with 82 patients who received an **LVAD implant** during the same period who did not develop **hemolysis**.

**Cited by:** 93**Author:** Ashwin K. Ravichandran, Jeffery Parker, ...**Publish Year:** 2014

## Hemolysis in left ventricular assist device: a ...

<https://www.ncbi.nlm.nih.gov/pubmed/24418733>

**BACKGROUND:** **Hemolysis** is becoming increasingly recognized as a major complication of **left ventricular assist device (LVAD)** support. Data regarding risk factors, prevalence, and outcomes are limited. To better define the characteristics and prognosis of **hemolysis**, we present a **retrospective case-control study** of LVAD patients in our institution.

**Cited by:** 93**Author:** Ashwin K. Ravichandran, Jeffery Parker, ...**Publish Year:** 2014

## Haemolysis in patients with ventricular assist devices ...

<https://academic.oup.com/ejcts/article/36/3/580/529511> ▼

Sep 01, 2009 · Implantation of a **ventricular assist device (VAD)** is a seminal therapeutic option for patients with terminal cardiac failure. A growing number of VAD patients are successfully bridged to transplantation, can be weaned or can even live permanently with the **device**. However, the success is restricted by frequent severe complications.

**Cited by:** 112**Author:** Claudia Heilmann, Ulrich Geisen, Christo...

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A Comprehensive Review of Hemolysis in Ventricular Assist De



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## Hemolysis in left ventricular assist device: A ...

<https://www.sciencedirect.com/science/article/pii/S1053249813014150>

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Cited by: 91

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Publish Year: 2014

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Cited by: 91

Author: Ashwin K. Ravichandran, Jeffery Parker, ...

Publish Year: 2014

## Left ventricular assist device hemolysis leading to dysphagia

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4427699>

May 14, 2015 · The patient presented with dysphagia to solids and liquids secondary to **hemolysis** caused by a continuous-flow **left ventricular assist device** (LVAD). Clinical diagnosis The patient's **physical exam** was notable for auscultation of a continuous hum from his LVAD and esophagogastroduodenoscopy was grossly normal.

Author: Alexander Wuschek, Sara Iqbal, Jerry

Publish Year: 2015

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## Implantable Left Ventricular Assist Device (LVAD) Placement

Surgical implantation of a **device** that pumps blood from lower chambers of the heart to different parts of the body.

**Type of procedure:** Open

**Recovery time:** Can take several days

**Duration:** About 5-6 hours

**Hospital stay:** Typically a few days

## May treat

### Heart Failure

Very common

A progressive heart disease that affects pumping action of the ...

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## What to expect before procedure

- Tests done before include chest X- ray, coronary angiography,

**Name of Journal:** *World Journal of Cardiology*

**Manuscript NO:** 54539

**Manuscript Type:** MINIREVIEWS

### Comprehensive review of hemolysis in ventricular assist devices

Papanastasiou CA *et al.* Hemolysis in ventricular assist devices

#### Abstract

Ventricular assist devices (VADs) have played an important role in altering the natural history of end-stage heart failure. Low-grade hemolysis has been traditionally described in patients with VADs, indicating effective device functionality. However, clinically significant hemolysis could be crucial in terms of prognosis, calling for prompt therapeutic actions. Absence of solid and widely approved diagnostic criteria for clinically significant hemolysis, render the utilization of hemolysis laboratory markers challenging. Hemolysis incidence varies (5%-18%)

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