

## REVIEW



# Desmopressin as a hemostatic and blood sparing agent in bleeding disorders

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National Institutes of Health, National Heart, Lung, and Blood Institute, Grant/Award Number: HL151367

**Abstract**

Intranasal, subcutaneous, or intravenous desmopressin can be utilized to release von Willebrand Factor and Factor VIII into circulation, enhance platelet adhesion and shorten bleeding time. Due to these properties, desmopressin can be effective in controlling bleeding in mild hemophilia A, certain subtypes of von Willebrand disease and in acute bleeding from uremia, end stage renal disease, and liver disease. Its use, however, can be complicated by hyponatremia and rarely arterial thrombotic events. While desmopressin has also been used as a prophylactic blood sparing agent in orthopedic, renal, and hepatic procedures, clinical studies have shown limited benefit in these settings. The purpose of this article is to review the evidence for desmopressin in primary hematologic disorders, discuss its mechanism of action and evaluate its utility as a hemostatic and blood sparing product in various bleeding conditions.

**KEYWORDS**

bleeding, desmopressin, hemostasis, transfusion

**Novelty statements**

- This article reviews the prior, current and most updated literature of the indications for desmopressin in various bleeding and hemostatic disorders.
- Desmopressin has a role in hemostasis in patients with mild hemophilia A and C, certain types of von Willebrand disease.
- Hematologists and surgeons can use this article to review evidence for desmopressin as a hemostatic and blood sparing agent.

## 1 | INTRODUCTION

Desmopressin (1-deamino-8-D-arginine vasopressin [DDAVP]) is a synthetic analog of vasopressin (commonly known as anti-diuretic hormone). It has been used in several diseases including nocturnal enuresis, diabetes insipidus and hematologic bleeding disorders including hemophilia and von Willebrand disease (vWD). Desmopressin was first introduced into the market in 1977 and initially used in patients with mild hemophilia A and vWD.<sup>1</sup> After the inadvertent transmission of human immunodeficiency virus (HIV) via pooled and

unscreened clotting factor concentrates to many patients with congenital hemophilia,<sup>2</sup> researchers looked to desmopressin as a non-transfusion option and investigators would go on to evaluate its use in a number of clinical scenarios.<sup>3</sup> The primary purpose of this review is to outline the current literature underlying the indications for desmopressin in patients with hemophilia or vWD and patients at increased risk of bleeding due to acute blood loss (from surgery or trauma) or from secondary causes like liver dysfunction due to cirrhosis or end stage renal disease/uremia. Finally, the paper will discuss use of desmopressin as a blood sparing product in transfusion medicine.

# Desmopressin In Bleeding Disorders

**Charles R. Rizza, Gordon Douglas  
Ogilvie Lowe**



## **Desmopressin In Bleeding Disorders:**

Desmopressin in Bleeding Disorders G. Mariani, P.M. Mannucci, M. Cattaneo, 2012-12-06 Proceedings of a NATO ARW held in Il Ciocco Tuscany Italy April 27 30 1992

**Inherited Bleeding Disorders in Women** Christine A. Lee, Rezan A. Kadir, Peter Kouides, 2009-01-26 The first book with a holistic approach to all aspects of care for women with inherited bleeding disorders Ever wondered about heavy menstrual bleeding that did not seem to have any natural or physical causes Ever had patients coming in with a family tree full of bleeding disorders Inherited bleeding disorders have an adverse effect on the quality of life of afflicted women Management of these women and their conditions is challenging and close collaboration between professionals in different specialities is needed International experts and leaders of clinical research including haematologists obstetrician gynaecologists an anaesthetist and those involved in patient advocacy show you how in this practical guide for clinicians Inherited Bleeding Disorders in Women covers the gynaecological and obstetric issues for carriers of haemophilia women with von Willebrand's disease rare bleeding disorders and inherited platelet disorders This book includes recent advances in the field and explores areas for future research The women's perspective and the efforts of advocacy groups are also discussed in the final chapter These features make this book a unique comprehensive and multi-disciplinary resource Pick up your copy today and see the difference it makes to the lives of your patients

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## **Table of Contents Desmopressin In Bleeding Disorders**

1. Understanding the eBook Desmopressin In Bleeding Disorders
  - The Rise of Digital Reading Desmopressin In Bleeding Disorders
  - Advantages of eBooks Over Traditional Books
2. Identifying Desmopressin In Bleeding Disorders
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Desmopressin In Bleeding Disorders
  - User-Friendly Interface
4. Exploring eBook Recommendations from Desmopressin In Bleeding Disorders
  - Personalized Recommendations
  - Desmopressin In Bleeding Disorders User Reviews and Ratings
  - Desmopressin In Bleeding Disorders and Bestseller Lists

5. Accessing Desmopressin In Bleeding Disorders Free and Paid eBooks
  - Desmopressin In Bleeding Disorders Public Domain eBooks
  - Desmopressin In Bleeding Disorders eBook Subscription Services
  - Desmopressin In Bleeding Disorders Budget-Friendly Options
6. Navigating Desmopressin In Bleeding Disorders eBook Formats
  - ePub, PDF, MOBI, and More
  - Desmopressin In Bleeding Disorders Compatibility with Devices
  - Desmopressin In Bleeding Disorders Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Desmopressin In Bleeding Disorders
  - Highlighting and Note-Taking Desmopressin In Bleeding Disorders
  - Interactive Elements Desmopressin In Bleeding Disorders
8. Staying Engaged with Desmopressin In Bleeding Disorders
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Desmopressin In Bleeding Disorders
9. Balancing eBooks and Physical Books Desmopressin In Bleeding Disorders
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Desmopressin In Bleeding Disorders
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Desmopressin In Bleeding Disorders
  - Setting Reading Goals Desmopressin In Bleeding Disorders
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Desmopressin In Bleeding Disorders
  - Fact-Checking eBook Content of Desmopressin In Bleeding Disorders
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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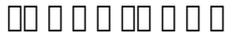
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