



## **INDIAN COUNCIL OF MEDICAL RESEARCH**

Department of Health Research – Ministry of Health & Family Welfare  
Government of India

### **Media report (Haemophilia A and von Willebrand disease)** **(ICMR IN NEWS)**

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## **Preface**

*The PR Unit/PRO office of ICMR since last one and half years have reached from (where is ICMR located) to (everyday mention of ICMR and DG ICMR in National Media). This change from where to why signifies the media visibility and importance of our organization within this stipulated time duration.*

*Every week Indian Council of Medical Research and Director General ICMR are mentioned by dozens of daily news papers, periodicals and magazines including online editions.*

*This report regarding “Haempohilia A and von Willebrand disease” features the media/news coverage provided to the project by major national news papers of the country such as The Hindu, The Week, Live Mint and Millennium Post among others.*

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## **HEADLINES** (As it is)



### **ICMR develops cost-effective diagnostic test for blood disorders**

May 14, 2019/Millennium post

### **Quick, cheap diagnostic test for Haemophilia A**

May 14, 2019/The Hindu

### **ICMR develops cheapest POC testing for severe Hemophilia A**

May 14, 2019/Drug Today Medical Times

### **Medical body ICMR develops affordable test kit to diagnose blood disorders**

May 15, 2019/Live Mint

### **Haemophilia gets a rapid diagnostic kit**

May 15, 2019/Pune Mirror

### **Indian Scientists develop first cost effective rapid test for common bleeding disorders**

May 15, 2019/Speciality Medical Dialogues

### **ICMR develops affordable diagnostic test kit for bleeding disorders**

May 15, 2019/The Week

### **ICMR develops world's cheapest rapid test kit for blood disorders**

May 15, 2019/Medi Bulletin

### **Medical body develops affordable test kit to diagnose blood disorders**

May 16, 2019/The Pioneer

### **हीमोफीलिया का 10 हजार में होने वाला टेस्ट अब सिर्फ 50 रुपये में**

May 16, 2019/Navbharat Times

**ICMR develops cost-effective diagnostic test for blood disorders**

May 14, 2019/Millennium post

New Delhi: In a major medical development, the **ICMR-NIIH**, Mumbai has developed a cost-effective point-of-care (POC) rapid diagnostic test for severe Hemophilia A and von Willebrand disease (vWD). According to a senior ICMR official, the development of the rapid diagnostic test would prove to be a great boon for poor patients in general as the working cost of these kits is less than Rs 50 in comparison to existing conventional test for the diseases that cost around Rs 4,000 to Rs 10,000. India has become the world's first country to develop POC test for specific diagnosis of any common bleeding disorder, the official said. Haemophilia A and vWD are the commonest among bleeding disorders. As per the Western data, the incidence of Haemophilia A is 1 per 10,000 male births and that of vWD is around 1 per cent of the general population.

"In India, there is no epidemiological data and with translation of this data with respect to the population, the country may have roughly 80,000-1,00,000 severe haemophilia cases, but the total number registered with Haemophilia Federation India (HFI) is only around 19,000," the official said, adding that lack of awareness, lack of diagnostic facilities, high cost of tests are some of the factors for the underdiagnosis of bleeding disorders in the country.

**Quick, cheap diagnostic test for Haemophilia A**

May 14, 2019/The Hindu

The **Indian Council of Medical Research** (ICMR)'s National Institute of Immunohaematology, Mumbai, has developed a cost-effective Point-of-Care (POC) rapid diagnostic test for severe Haemophilia A and Von Willebrand Disease (VWD), a genetic disorder caused by missing or defective Von Willebrand factor (VWF), a clotting protein. "This is the first in the world POC test for specific diagnosis of any common bleeding disorder. Working cost of these kits is less than ₹50 in comparison to existing conventional test for the diseases that costs around ₹4,000 to ₹10,000," said a release by the ICMR here on Tuesday. Patients with severe Haemophilia A or VWD can have life threatening spontaneous or post-traumatic bleeding like brain haemorrhage and gastrointestinal bleed or they may have bleeding into joints or superficial bleeding from the nose or gums.

## ICMR develops cheapest POC testing for severe Hemophilia A

May 14, 2019/Drug Today Medical Times



This is the first in the world POC test for specific diagnosis of any common bleeding disorder. Working cost of these kits is less than Rs. 50, in comparison to existing conventional test for the diseases that cost around Rs. 4000 to Rs. 10000. Diagnosis of VWD requires a battery of expensive investigations. Patients with severe Hemophilia A or VWD can have life threatening spontaneous or post-traumatic bleeding like brain hemorrhage and gastrointestinal bleeding or they may have bleeding into joints or superficial bleeding from the nose or gums.

In an Emergency Medical setting, it is important to have a quick diagnosis of bleeding disorders for treatment with specific products like the blood components or commercially available factor concentrates which are exorbitantly expensive.

This rapid test kit can be used for the diagnosis of undiagnosed patients/ menorrhagia cases/ post-partum hemorrhage (PPH), gynecological complications with bleeding history, recovery of factors in the transfused Hemophilia A patients and also for differential diagnosis of Hemophilia A and VWD. Since it does not require any expertise or infrastructure, this can easily access any level of health care system including primary health care centers. The diagnosis can be done within 30 minutes of blood sample collection. The bands are visually detected within 10 minutes of sample application. The kit is composed of special paper membranes which have different components attached on it for the detection of target molecules.

## Medical body ICMR develops affordable test kit to diagnose blood disorders

May 15, 2019/Live Mint

Topics - Haemophilia A

The **Indian Council of Medical Research (ICMR)** has developed an affordable test kit for diagnosing common blood disorders such as severe Haemophilia A and Von Willebrand disease (VWD). The cost-effective point-of-care (POC) rapid diagnostic test kit developed by the ICMR-National Institute of Immunohaematology, Mumbai, is the world's first POC test for specific diagnosis of any common bleeding disorder. It costs less than ₹50, while other existing diagnostic kits cost between ₹4,000 and ₹10,000, the ICMR said on Tuesday. Haemophilia A and VWD are the most common bleeding disorders. Globally, the incidence of Haemophilia A is 1 per 10,000 male births, and that of VWD is around 1% of the general population. Though there is no epidemiological data for India, estimates suggest 80,000-100,000 severe Haemophilia cases. However, the total number of registered cases with Haemophilia Federation India (HFI) stands at around 19,000. Lack of awareness, lack of diagnostic facilities and high cost of tests contribute to under-reporting of bleeding disorders in India, the ICMR said. Patients with severe Haemophilia A or VWD can have life-threatening spontaneous or post-traumatic bleeding, including brain haemorrhage and gastrointestinal bleeding, or may even lead to bleeding in joints or superficial bleeding from the nose or gums.

“In an emergency medical setting, it is important to have a quick diagnosis of bleeding disorders with specific products like the blood components or commercially available factor concentrates, which are exorbitantly expensive. Both Haemophilia A and VWD are under-diagnosed disorders in our country. There are

only a handful of comprehensive diagnostic centres for bleeding disorders," the ICMR said in a statement. According to the ICMR, the diagnosis can be done within 30 minutes of blood sample collection. The bands are visually detected within 10 minutes of sample application. The kit is composed of special paper membranes, which have different components attached on it, for detecting target molecules.



The POC kits can be used by primary healthcare centre staff, the ICMR added.

### **Haemophilia gets a rapid diagnostic kit**

May 15, 2019/Pune Mirror

**Indian Council of Medical Research**-National Institute of Immunohaematology (ICMR-NIIH), Mumbai, has developed a cost-effective point of care (POC) rapid diagnostic test for severe Haemophilia A and Von Willebrand disease (VWD). First of its kind in the world, this POC test is for specific diagnosis of any common bleeding disorder. Working cost of these kits is less than Rs 50 compared with existing conventional test for the diseases that cost around Rs 4,000 to 10,000. The research is expected to help huge number of patients and medical fraternity at large, said officials. The study was conducted by ICMR-PDF Dr Priyanka Kasatkar under the guidance of Dr Shrimati Shetty, scientist F, NIIH. Haemophilia A and VWD are the commonest among bleeding disorders. As per data, incidence of haemophilia A is 1 per 10,000 male births and that of VWD is around 1 per cent of the general population. In India, there is no epidemiological data, and with translation of this data with respect to the population, we may have roughly 80,000-1,00,000 severe haemophilia cases in our country, but the total number registered with Haemophilia Federation India is only around 19,000. Lack of awareness, diagnostic facilities and high cost of tests are some of the factors for the under diagnosis of bleeding disorders in our country, say experts. The diagnosis can be done within 30 minutes of blood sample collection. The bands are visually detected within 10 minutes of sample application. The kit is composed of special paper membranes which have different components attached on it on it for the detection of target molecules. Dr Shetty said, "The test kits developed are for the commonest bleeding disorders. For this test, you don't need any technical expertise or equipments. After putting the blood plasma, the results come in 10 minutes. This can be used even at PHCs." Dr Shetty further added, "What makes the find unique is the cost-effectiveness and the fact that, at present, there are no instant diagnostics available in any part of the world."

### **Indian Scientists develop first cost effective rapid test for common bleeding disorders**

May 15, 2019/Speciality Medical Dialogues

**ICMR**-NIIH, Mumbai has developed a cost-effective POC rapid diagnostic test for severe Haemophilia A & VWD. This is first in the world POC test for specific diagnosis of any common bleeding disorder. Working cost of these kits is less than Rs. 50 in comparison to existing conventional test for the diseases that cost around Rs. 4000 to 10000. Haemophilia A and VWD are the commonest among bleeding disorders. As per the Western data, the incidence of Haemophilia A is 1 per 10,000 male births and that of VWD is around 1% of the general population. In India, there is no epidemiological data and with translation of this data with respect to the population, we may have roughly 80000-100000 severe Haemophilia cases in our country, but the total number registered with Haemophilia Federation India

(HFI) is only around 19000. Lack of awareness, lack of diagnostic facilities, high cost of tests are some of the factors for the underdiagnosis of bleeding disorders in our country. Diagnosis of VWD requires a battery of expensive investigations. Patients with severe Haemophilia A or VWD can have life-threatening spontaneous or post-traumatic bleeding like brain haemorrhage and gastrointestinal bleed or they may have bled into joints or superficial bleeding from the nose or gums. In an Emergency Medical setting, it is important to have a quick diagnosis of bleeding disorders for treatment with specific products like the blood components or commercially available factor concentrates which are exorbitantly expensive.



### **ICMR develops affordable diagnostic test kit for bleeding disorders**

May 15, 2019/The Week

Soon, diagnosing common bleeding disorders will be fast, cheap and accessible. Mumbai-based National Institute of Immunohaematology (**ICMR-NIIH**) has developed a new point-of-care test to diagnose common bleeding disorders such as Haemophilia A and von Willebrand disease (VWD). “Currently, the diagnostics available for these common disorders are expensive, require expertise and special equipment. This test is a simple one and results can be obtained in a few minutes,” Dr Shrimati Shetty, senior scientist, ICMR-NIIH told THE WEEK. The diagnosis can be done within 30 minutes of blood sample collection, and the bands are visually detected within 10 minutes of sample application. The kit is composed of special paper membranes which have different components attached on it for the detection of target molecules. The test will cost around Rs 50, and is likely to be available at primary health centres in the country. Among bleeding disorders, Haemophilia A and VWD are the commonest, Shetty said. As per the Western data, the incidence of Haemophilia A is 1 per 10,000 male births and that of VWD is around 1 per cent of the general population. In India, however, there is no epidemiological data, but if calculated as per the same incidence rate, we may have roughly 80,000-100,000 severe Haemophilia cases in our country. “The total number of patients registered with Haemophilia Federation India (HFI) is only around 19,000. This is because of a lack of awareness, diagnostic facilities and high costs of tests,” said Shetty, adding that these diseases were under-diagnosed in the country.

### **ICMR develops world’s cheapest rapid test kit for blood disorders**

May 15, 2019/Medi Bulletin

The **Indian Council of Medical Research (ICMR)** has developed an affordable test kit for diagnosis of common blood disorders such as severe Haemophilia A and von Willebrand disease (VWD). According to the ICMR scientists, the diagnosis can be done within 30 minutes of blood sample collection. Hemophilia is an inherited disorder of blood clotting where deficiency of certain clotting factors leads to excessive bleeding for a longer time than others after any injury, injections, tooth extractions or operations. In Hemophilia A clotting factor VIII is deficient and in Hemophilia B clotting factor IX is lacking. The cost-effective point of care (POC) rapid diagnostic test developed by the ICMR- National Institute of Immunohaematology (NIIH), Mumbai is first in the world POC test for specific diagnosis of any common bleeding disorder. Working cost of these kits is less than Rs. 50 in comparison to existing conventional test for the diseases that cost around Rs. 4000 to ₹10000, the ICMR on Tuesday said. Lack of awareness, lack of diagnostic facilities and high cost of tests are some of the factors for the under



diagnosis of bleeding disorders in India, the ICMR said. Diagnosis of VWD requires a battery of expensive tests. Patients with severe Haemophilia A or VWD can have life threatening spontaneous or post-traumatic bleeding like brain haemorrhage and gastrointestinal bleed or they may have bleeding into joints or superficial bleeding from the nose or gums.



### **Medical body develops affordable test kit to diagnose blood disorders**

May 16, 2019/The Pioneer

In a major breakthrough which would go a long way in cutting down medical costs of the patients with severe Hemophilia A and von Willebrand Disease (vWD,) the **ICMR**- National Institute of Immunohaematology (NIIH), Mumbai has developed a cost-effective point-of-care (POC) rapid diagnostic test for the blood disorders.

This would cost a patient less than Rs 50 in comparison to existing conventional test for the diseases that cost around Rs 4,000 to Rs 10,000. India has become the world's first country to develop POC test for specific diagnosis of any common bleeding disorder, the ICMR has claimed. Haemophilia A and vWD are the commonest among bleeding disorders. As per the Western data, the incidence of Haemophilia A is 1 per 10,000 male births and that of vWD is around 1 per cent of the general population. "In India, there is no epidemiological data and with translation of this data with respect to the population, the country may have roughly 80,000-1,00,000 severe haemophilia cases, but the total number registered with Haemophilia Federation India (HFI) is only around 19,000," a senior official from the ICMR said

### **हीमोफीलिया का 10 हजार में होने वाला टेस्ट अब सिर्फ 50 रुपये में**

May 16, 2019/Navbharat Times

4 हजार से 10 हजार रुपये में होने वाली हीमोफीलिया की जांच अब सिर्फ 50 रुपये से भी कम में हो जाएगी। हीमोफीलिया-ए और खून से जुड़ी दूसरी बीमारियों का पता लगाने के लिए भारत में दुनिया की सबसे सस्ती और पहली बार रैपिड डायग्नोस्टिक किट तैयार की गई है। **इंडियन काउंसिल ऑफ मेडिकल रिसर्च (ICMR)** ने यह किट तैयार की है और इसका पेटेंट भी हासिल कर लिया गया है।

### **स्पेशल पेपर से बनी है ये खास टेस्ट किट**

स्पेशल पेपर से बनी इस किट के इस्तेमाल के लिए न तो इन्फ्रास्ट्रक्चर की जरूरत है और न ही किसी स्पेशलिस्ट की। देश के किसी भी प्राइमरी हेल्थ केयर सेंटर में हीमोफीलिया की जांच अब संभव हो पाएगी। खून की बूंद पेपर पर डालने के बाद 10 मिनट में रिजल्ट मिल जाएगा। एक अनुमान के मुताबिक, देश में हीमोफीलिया से पीड़ित मरीजों की संख्या 1 लाख से ज्यादा है।

### **इस बीमारी में खून का थक्का नहीं जमता**

बता दें कि हीमोफीलिया एक ऐसी बीमारी है, जिसमें खून का थक्का नहीं बनता। इस बीमारी से पीड़ित मरीज की ब्लीडिंग रुकती ही नहीं। आमतौर पर शरीर के किसी हिस्से में कटने पर कुछ देर में ब्लड का थक्का बन जाता है, जिससे ब्लीडिंग रुक जाती है। हीमोफीलिया पीड़ित लोगों में ब्लीडिंग नहीं रुकती इसलिए इस बीमारी का पता चलना जरूरी है। कई बार लोगों को पता ही नहीं होता है और वे इसका शिकार हो जाते हैं।



## हीमोफीलिया के लक्षण



शरीर में नीले-नीले निशानों का बनना, नाक से खून का बहना, आंख के अंदर खून का निकलना और जोड़ों की सूजन आदि इस बीमारी के सामान्य लक्षण हैं।

With regards,

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