

Update

ROTARY NOIDA BLOOD BANK

Our Temple of Community Service

Winter Edition 2011

A Creation of
Rotary Club of Noida
A Major Donor Club
– rarest of rare in the Rotary World



Thank you!!! Donors

Each year the regulations surrounding the service become more rigorous and demanding. The service is regularly inspected and is endeavoring to keep in step or slightly ahead of these changing demands. The safety of blood and blood products is paramount and is constantly under review and we are up to the mark in providing quality blood.

This year Blood Transfusion Service is fulfilling all its requirements for blood and blood products along with the associated services. For this we owe special thanks to our donors and would like to thank and congratulate each one for this selfless and generous gesture for the good of others.

Blood is composed of cells suspended in a liquid. These cells -- red cells, white cells and platelets -- account for 50% of the volume of blood. The remaining liquid portion is plasma.

Red cells are as important to life as breathing in and out. They transport oxygen throughout the body cells. The oxygen provides the fuel, or energy, for all the work your body does. Red cells need foods rich in iron, such as meat, liver, eggs, green leafy vegetables and whole-grain bread to make them healthy. Red cells are produced in the bone marrow at a normal rate of about 17 million cells per second.

White cells, also known as leukocytes, are the protective cells in the blood stream. They attack bacteria by squeezing through capillary walls to reach the area of infection where they destroy bacteria. White blood cells are also made in the bone marrow and are produced at twice the rate of red blood cells.

Platelets are colorless cells or fragments produced in the bone marrow. They control bleeding by helping to form a blood clot. Platelets also assure that blood vessels stay "leakproof" in daily life by acting like an internal band-aid.

Plasma contains minerals, proteins, sugars and hormones and is the liquid through which all blood cells "swim".

Blood Donation Camps

Rotary Noida Blood Bank sincerely thank you for sparing your valuable time for holding up of Voluntary Blood Donation Camps at various places with the support of various Rotary Clubs and helping us in catering the society with quality safe Blood & Blood products

We sincerely thank you once again and hope that you would continue to extend your valuable support in our future programs also.

- CSC, SEC. 58 & 62, NOIDA
- SHIV KRISHNA HOSPITAL, GHAZIABAD
- STERIA, SEC. 1, NOIDA
- SRI SAI BABA MANDIR, SEC. 40, NOIDA
- BAL BHARTI PUBLIC SCHOOL, NOIDA
- CONTAINER CORPORATION OF INDIA, GREATER NOIDA
- EMINENT INFRA DEVELOPERS, NEW DELHI
- MARWAH STUDIO FILM CITY, NOIDA
- RWA SEC-30, NOIDA
- ARYA SAMAJ GURUKUL, SEC. 35, NOIDA
- INVESTOR CLINIC, SEC. 125, NOIDA
- MOD PRINTS, A-3 SEC-58, NOIDA



- SUPER OVERSEAS, HOSIERY COMPLEX, NOIDA
- OMAXE LTD., OKHLA & KALKAJI, NEW DELHI
- COMMUNITY CENTRE, MEERA BAGH DELHI
- BANK OF BARODA, VASUNDHRA, DELHI
- DIVYANI INTERNATIONAL, GURGAON, HARYANA
- ZEE INSTITUTE OF CREATIVE ART, NOIDA
- PARK PLAZA HOTEL, NOIDA-SALAAM BHARAT
- COUNTRY INN & SUITES, GURGAON, HARYANA
- R.B NORTHLAND COLLEGE, DADRI, U.P
- SAI BABA MANDIR, SEC. 40, NOIDA
- IBI COLLEGE, KNOWLEDGE PARK 1, GR. NOIDA
- SHIVAJI COLLEGE, DELHI UNIVERSITY
- HOTEL RADISSON MARINA, DELHI
- SINGHANIA HOSPITAL, BHIWADI, HARYANA
- TI CYCLES OF INDIA, NOIDA
- LORD KRISHNA INSTITUTE, GHAZIABAD
- RASHTRIYA SAHARA, SEC-11, NOIDA
- BIRLA VIDYA NIKETAN, SAKET, NEW DELHI
- HELLO HEALTH SERVICES I-RELIGARE, NOIDA
- HELLO HEALTH SERVICES II-RELIGARE, GHAZIABAD
- COMMUNITY CENTRE, SEC-53, NOIDA
- MARIGOLD PUBLIC SCHOOL, NOIDA
- HONDA SHOWROOM & SERVICE CENTRE, SEC. 11, NOIDA
- DERA SACHA SAUDA, SIRSA, HARYANA
- THE PALM TOWN & COUNTRY CLUB, GURGAON
- DELL SERVICES, SEC. 125, NOIDA IN COLLABORATION WITH SETU
- MODERN SCHOOL, SEC. 11, NOIDA
- GREAT INDIA PALACE, NOIDA
- JKG INTERNATIONAL SCHOOL, INDIRAPURAM, GHAZIABAD
- HAI UMMEED, NOIDA
- KHAITAN PUBLIC SCHOOL, SEC. 40, NOIDA.

“खून की बूँद इन्सान की जाति-धर्म एवं वर्ग नहीं देखती, क्योंकि वही जीवनदायिनी है और इसका सृष्टि में कोई विकल्प नहीं है”



Nucleic Acid Testing

Dr. Sameer Kumar
Medical Director

Nucleic Acid Testing – for safest blood transfusion

Patient safety is a huge concern for any transfusionist. Patients in developing countries like India are more likely to receive blood that is contaminated with infectious diseases like **HIV & Hepatitis**, than industrialized nations. The reasons for this are many - higher disease prevalence, use of family / replacement donors & concealment of medical history and / or risky sexual behavior contribute largely to risk of Transfusion Transmitted Infections. The risk may further compounded by inadequate serology-based screening.

India has an annual requirement of roughly 10 million blood units and millions of Indians rely on donations of blood and blood-derived products each year. Many a times, donors are unaware of their infected state, especially if they don't have any symptoms or in cases of very low-level infections. Life threatening infections such as Human immunodeficiency virus (HIV), Hepatitis B, C (HBV, HCV) can easily be transmitted through infected blood. **A single unit of blood can potentially infect up to 4 recipients, especially when used as components (Packed Red Cells, Plasma, Platelets etc), spreading the disease rapidly.**

Considerable resources and efforts have been expended over the years to reduce the risk of their transmission through blood. Efficient blood screens for HIV-1, HBV & HCV, can help saves lives by reducing transmission of these blood-borne diseases from donors to recipients.

Technological advances have made it possible to detect transfusion-transmitted pathogens sooner than ever. Early

tests for surrogate markers of infection such as elevated serum alanine aminotransferase (ALT) levels (hepatitis) and decreased CD4+ lymphocytes (HIV) were supplemented by tests that detect viral-induced antibodies, & which in turn were supplemented by tests that detect viral antigens.

Nucleic Acid Testing (NAT) is the latest technologic advancement that ensures an additional layer of safety of the nation's blood supply. NAT targets viral genetic material and through NAT, very small amounts of a virus can be detected before antibodies or viral proteins, (such as HIV p24 antigen or HCV antigen) are at levels detectable by current screening methods.

NAT significantly reduces the 'Window Period' or the time between donor exposure to the virus and the presence of detectable amount of antibodies/antigens. By decreasing the window period, NAT allows for earlier detection of the viral infection and thus decreases the possibility of transmission of the virus.

NAT assays can detect –

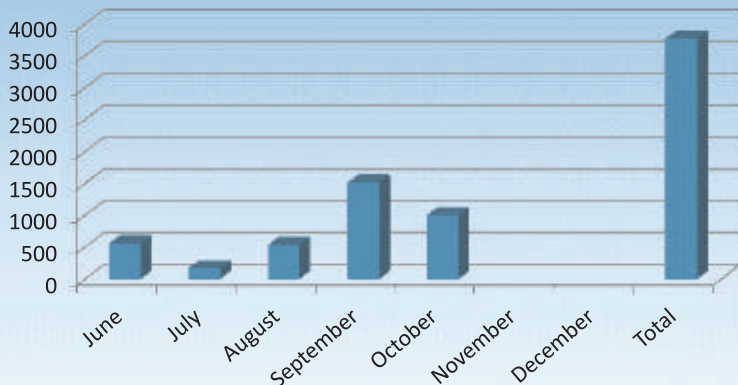
HIV-1 within 5.3 days after infection, vs 15 days for immunoassay testing thus reducing the risk by 65%. **Hepatitis infections** may remain asymptomatic for years. NAT assays can detect **HCV within 3.4 days** after infection, vs 58.3 days for immunoassay testing. Therefore, risk reduction is 95%. **HBV can be detected within 15 days** post infection, vs 38.3 days for immunoassay testing thus reducing TTI risk by 61%.

NAT has been adopted all over the world including USA, Canada, most of Europe, Australia, New Zealand, Japan, Hong Kong, Singapore, Malaysia, Indonesia, and even Thailand and South Africa. Even countries like Lithuania, Slovenia, Slovakia, Zimbabwe, and Egypt are adding NAT to their blood screening protocols.

Some Recent events like transfusion of infected blood to thalassemic children in Junagarh, Gujarat are unwelcome reminders of how unsafe, improperly tested blood can be. Statistics have shown that up to 20,000 patients and their families can be adversely affected annually with more than 6,000 donations potentially missed with existing testing technologies. So far, there has never been a reported case of TTI of HIV-1 or HCV with NAT (IDT-Individual Donor Testing-One Donor One Test). The need of the hour is to make blood safety more 'patient-centric' with every unit of blood being NAT tested so that each patient has the reassurance of safest possible transfused blood.

Milestone Achieved...

Collection Status 2011





Message

Manish Agarwal

President
Rotary Club of Noida

Dear Fellow Rotarians,

At the outset, thank you very much for assigning me the opportunity to be the President of the Club. Thanks to all my mentors, Senior Members and Colleagues who showed their faith on me by giving such a responsible position to carry forward the aims & objectives of club continuously.

Congratulations to the fellow members of **Rotary Club of Noida** in touching another milestone - the biggest project initiated and completed by any of the Individual Club so far - '**Rotary Noida Blood Bank**'. Congratulations to **PP Rtn. Satish C. Singhal, Managing Trustee of the Blood Bank**, who has sown the seed 5 yrs back and all the fellow Trustees, who has worked really very hard in making this dream - a reality. Being a part of this endeavor - I m really proud to be associated for this noble cause.

Blood Bank has already been functional since **13th June, 2011** and serving the poor and needy of Noida and surroundings at their hour of need. Blood donation has a lot of value, as we all are aware that blood in its own self saves life by giving plasma/platelet/blood, and our club with its aim of saving the life's of all persons in the need of blood, as such we are and will be organizing Blood Donation camps in our near future . This has been only possible particularly because of the support of **Distt Governor Rtn. Asit Mittal ji** who, whole heartedly supported us for the honorable cause and recognized this Blood Bank in RI Distt.3010 as a District Project.

On Behalf of my team & club members, I thank all dignitaries of this district for their unconditional support & cooperation. Our fellow members of Society -our assets have to be taken care of by donating Blood regularly, so as to keep the District free of any unfortunate incident due to shortage of Blood. At the end, I suggest you to donate Blood & save more and more lives.

With rotary regards,



रोटो सतीश चन्द सिंघल
मैनेजिंग ट्रस्टी

प्रिय दोस्तों,

मेरे अध्यक्षीय कार्यकाल में 20 मई, 2007 को उत्तराखण्ड के तत्कालीन राज्यपाल महामहिम रोटेरियन सुदर्शन अग्रवाल जी ने इस '**रोटरी नोएडा ब्लड बैंक**' की नींव का पहला पत्थर रखा था और तब से लेकर अब तक हर दिन व हर रात अपने सपनों में रोज इसको बनता हुआ देखता था और अब यह सपने में नहीं बल्कि साक्षात रूप से आप सबके सामने खड़ा हुआ है। ऐसा अद्भुत, ऐसा खूबसूरत और बेमिसाल ब्लड बैंक पूरे देश में दूसरा कोई नहीं है।

मित्रों, इस पावन कार्य को करने में मुझे अपने क्लब के सभी सदस्यों से बेहद प्यार व सहयोग मिला। इनमें से कुछ ने तन-मन-धन से व कुछ ने मन-वचन-कर्म से साथ दिया, परन्तु सभी से जैसा अपेक्षित था, वैसा ही सहयोग मिला। तभी हमारा '**रोटरी क्लब ऑफ नोएडा**' रोटरी जगत में एक मात्र अद्वितीय स्थान रखता है, जहां इतने विशाल प्रोजेक्ट को बनाने के लिए बिना किसी रोटरी मैचिंग ग्रांट लिये केवल क्लब के सदस्यों ने ही खुद के द्वारा एवं अपने मित्रों से धन एकत्रित करके इस कार्य को पूर्ण किया है। वैसे तो हमने इसे जून 2011 से ही संचालित कर दिया था, परन्तु कुछ कठिनाइयों को दूर करने के उपरान्त अब यह पूरे गौतमबुद्धनगर, गाजियाबाद और पूर्वी दिल्ली के क्षेत्रों में जरूरतमन्द लोगों की सेवा कर रहा है। एक बात मैं कदापि नहीं भूलना चाहता कि हमें इस पावन कार्य को करने में इण्डियन मैडीकल एसोसिएशन-नोएडा चैप्टर के सभी पदाधिकारियों ने कन्धे से कन्धा मिलाकर बहुत बड़ा सहयोग किया है।

अब बहुत जल्दी ही हम किसी महान विभूति के कर-कमलों से इस ब्लड बैंक का औपचारिक उद्घाटन सम्भवतः दिसम्बर माह में करके राष्ट्र को समर्पित करना चाहते हैं, जिसकी सूचना समाज के सभी वर्गों को समय पर दे दी जाएगी।

एक बार मैं पुनः अपने रोटेरियन साथियों को, उनके इष्ट-मित्रों को एवम् जिस किसी ने भी इस पुण्य कार्य को करने में हमारा सहयोग दिया है, मैं उन सबको शत-शत नमन करता हूँ और परमपिता परमात्मा से प्रार्थना करता हूँ उन सभी दानवीरों को अपार सम्पन्नता प्रदान करें, ताकि समाज में दूसरों का भला करने की लालसा बनी रहे और उनके किये हुये सत्कर्मों पर आने वाली पीढ़ियों को अभिमान हो।

अन्त में, मैं आप सभी को रोटरी नोएडा ब्लड बैंक के सभी फाउण्डर ट्रस्टीज एवम् ट्रस्टीज की ओर से दीपावली की हार्दिक शुभकामनाएं देता हूँ।

चरागों को आँखों में महफूज रखना।

बड़ी दूर तक रात ही रात होगी।।

चरागों की लौ से सितारों की जौ तक।

तुम्हें मैं मिलूँगा जहाँ रात होगी।।

ROTARY NOIDA BLOOD BANK

100% VOLUNTARY DONATION • 100% BLOOD COMPONENTS • NO REPLACEMENT DONATIONS

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