

October 2021, Volume 31

Special Points:

Transfusion of rare blood units saves two



The 24th life-saving cord blood transplant in Iran



Commemoration of Blood Donation Day for Believers in Divine Religions



Youth and athletes blood donation cam-



Transfusion of rare blood units saves two patients' lives

In past two months, IBTO faced situations which needed a high level of coordination in supplying rare blood types in two different conditions.

The first was a 24-year-old man with a concussion resulting from an accident who needed an urgent blood transfusion, in Tehran. His blood type was identified as Bombay; so far, 70 people with Bombay blood group have been identified in Iran and half of them cannot donate blood due to their medical circumstances. Hopefully, a donor with the same blood type was found in Qazvin (a



Second case was an expectant mother with Rhnull blood group, due for delivery, in Sistan & Baluchistan province. Although, her cousin with the same blood group was unable to donate blood due to incurable anemia, her previously-collected and frozen blood units were delivered to Sistan & Baluchistan from Tehran.

Twenty-fourth stem cell transplantation in Iran using IBTO-stored cord blood

The 24th stem cell transplant using a cord blood unit stored in the Iranian Blood Transfusion Organization (IBTO) brought a 3-year-old back to life.

A 3-year-old child with an immunodeficiency who was hospitalized in the transplant center of the Children's Medical Center Hospital underwent a stem cell transplant using a cord blood unit provided from the cord blood bank of the IBTO.

The only public cord blood bank in Iran is operated by the IBTO. More than 4,000 cord blood units have been collected, stored, and processed by this department since its establishment in 2009.

The center is expected to join with other cord blood banks around the world to build a strong network and inventory of high-quality cord blood units available for any patient who needs a transplant.



October 2021, Volume 31

The Iranian Parliament commemorates “ National Blood Donation Day for Believers in Divine Religions”

In recognition of Dr. Mina Izadyar’s valuable efforts, her birthday (October 1) named as "Blood Donation Day for Believers in Divine Religions". Dr. Mina Izadyar was a Zoroastrian prominent Iranian professor and Pediatric hematologist and oncologist. She was also co-founder and director of Iranian Thalassemia Society. Her efforts resulted in significant reduction of live-born infants with acute Thalassemia from 2500 to 300 per year in Iran.

The ceremony organized by Iranian Parliament was attended by the representatives of Assyrian and Chaldean Christians, the Armenian Christians and the Zoroastrians.

Dr. Peyman Eshghi, the Managing Director of the IBTO, emphasized in his speech that this organization is a national organization and one of its distinguishing features, is that there is no limit to the presence of different races and religions.” Of course, one of our cultural tasks is to invite people from different groups, ethnicities, languages and religions to donate blood” he said.



October 2021, Volume 31

IBTO expands its national network by the assistance of charities

The IBTO Charity Foundation has stepped up their efforts to expand IBTO's blood supply network in the country by the construction of buildings, especially in the provinces.

In recent years, the number of hospital beds has increased significantly. The increase in hospital beds has been accompanied by an increase in demand for blood and its products, while the number of blood donation beds has not increased significantly due to lack of physical space. On the other hand, it is not possible to properly host and honor blood donors in non-standard blood donation centers. IBTO with the assistance of charities initiated 15 construction projects in 18 provinces.



Blood Donation of the armed forces in 15 different provinces of the country during the week of the police force



Published articles at a glance

Positive anti-SARS-CoV-2 rapid serological test results among asymptomatic blood donors is the subject of a study published by Ali Arabkhazaeli and his colleagues in *transfuse clin biol Journal*.

To figure out an estimation of asymptomatic patients and seropositive SARS-COV-2 blood donors in Iran, a national survey was conducted to find the prevalence of asymptomatic blood donors with positive SARS-COV-2 IgM/IgG test results at the end of May 2020.

The corrected prevalence rates of positive serological test results for sensitivity in provinces were between zero and 38.24%. The national prevalence was calculated 14.45% after weighting. Out of 161 positive donors, only 43 cases reported related signs or symptoms during the defined period of time, while 118 (73.29%) seropositive cases had not reported any related signs or symptoms. Some signs or symptoms were reported more frequent in the SARS-COV-2 serologic rapid test positives. The highest OR (10.19) was linked to ageusia.

This study has shown the prevalence of seropositive results to be around 14% in target population in which around $\frac{3}{4}$ had not reported any signs or symptoms.

National campaign inviting athletes and youth to donate blood

Iranian Blood Transfusion Organization in cooperation with Sport Medicine Federation launched a national blood donation campaign on 21st of September to encourage youth and athletes to donate blood.



Peyman Fakhri,
Iranian National Fencing Head Coach

Ehsan Haddadi
Iranian discus thrower, World Junior
Champion

Behdad Salimi,
Former Iranian heavyweight weight-
lifter and Olympic gold medal winner