

SERUM TIMES

Monthly | Volume VII | Issue XI | November, 2022

SERUM MEDICAL BULLETIN

From the desk of the Editor-in-Chief

Dear Doctors/Readers,

We have passed the main period of festival season. Christmas, Nabanna, or Paush festival is more than a month away. Hope you all are well. In our last issue of Serum Times, it was pointed out that the danger of dengue had been rising, not only in West Bengal but the states of south India are also not at all free from it. Cases from Bihar and UP have crossed the previous records. So, we hope you will maintain the precautionary measures to check dengue infections.



In the next story, we are going to discuss some of the new types of suffering of dengue patients that are being observed in the present phase. About 40 crore people get infected with dengue fever each year around the world. So, the high burden of dengue and Covid 19 infections has increased the possibility of co-infections. This is a significant health concern. It is reported that the overlap of these infections is making the laboratory findings complicated. There have been studies showing co-infection of dengue and Covid 19 with worse clinical manifestations and higher complications.

Some of the doctors have been experiencing that many patients with dengue are behaving abnormally. They reportedly observed that some patients had been admitted with dengue symptoms but after established routine examinations, no signs of dengue infection were found in their bodies. At the same time, some doctors have also pointed out that many dengue patients had not been responding to common treatments and medicines and would suddenly turn to an uncontrolled stage that led to even deaths. Doctors are confused with such special cases and are thinking of any sort of link between Covid 19 infection and dengue infection that might make matters more dangerous.

In the next story difference between dengue and Covid 19 infection as well as how the doctors have been thinking regarding the newly experienced features of many dengue patients will be discussed.

Wish you a happy life to you and your family members and friends.

Thanking you,

Sanjib Acharya

For more details, visit: www.serumanalysiscentre.com | Follow us at



FREE distribution for Doctors and Medical Personnels

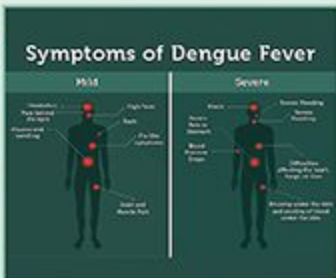


Has Covid 19 infection been impacting dengue-infected patients?

Many countries in Asia and Latin America are currently facing a double burden of outbreaks due to dengue and Covid 19. While treating dengue patients, some doctors in West Bengal are reported to have been experiencing some of the patients behaving abnormally. A section of the infected patients has been turning to a very critical stage and died. In this situation, doctors have been getting confused about the behaviour of the patients. This is why some doctors are thinking about whether there has been any impact of Covid 19 virus on dengue patients. Actually, dengue and Covid 19 viruses are different. But whether there has been any impact of Covid 19 on some of the dengue-infected patients has been a matter of research.

Difference between Covid 19 and dengue viruses

Dengue is caused by any of the four viruses through the bites of an infected Aedes species. But Covid 19 is a respiratory problem caused by SARS-CoV 2. IT Infection of Covid comes from person to persons respiratory droplets while a person coughs, sneezes and talks. Both diseases are viral. With many similar symptoms like body pain, myalgia, fever, nausea, etc. Dengue fever will be generally higher than Covid cases. The incubation period, that is, exposure and visible symptom for dengue is 5 to 7 days but for Covid, it is about 14 days. For dengue, the most common symptoms are headache and weakness. In severe cases of dengue, plasma leaks lead to shock, fluid accumulation, severe bleeding and organ impairment, etc. For Covid, it includes dyspnea, hypoxia, respiratory failure, shock, and multiorgan dysfunction. dengue patients. Actually, dengue and Covid 19 viruses are different. But



whether there has been any impact of Covid 19 on some of the dengue-infected patients has been a matter of research.

Some result a study published in Indian Journal of Paediatrics (89,944, 2022)

This is a study from a paediatric care centre to know the prevalence of IgG SARS-CoV-2 antibody titers among children admitted with dengue and its impact on the severity of dengue. In that study population 29 (23.4%) children had severe dengue, 55 (44.4%) had dengue with warning signs, and 40 (32.3%) had dengue with warning signs. Among the 29 children with severe dengue 20 did not have SARS-CoV-2 antibodies, while 9 were SARS-CoV=2 reactive. Among the 40 dengue children, 34 children were SARS-CoV-2 reactive and 6 were antibody non-reactive. Among the dengue children with warning signs, 24 were antibody reactive and 31 were non-reactive. SARS CoV-2 antibody reactive rate among children with severe dengue was 31%. We have to wait for more study on this to get a clear picture.

Dilip Mahalanobis, the inventor of ORS, passed away

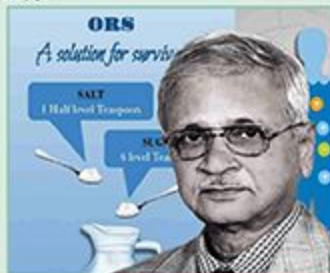
Doctor Dilip Mahalanobis passed away on last October 16, 2022. He was famous for pioneering Oral Rehydration Solution (ORS). It is known that in 1978 a Lancet editorial recognized ORS as the most important medical advance of the century.

What is ORS?

A large number of people know and use it. It is a type of fluid replacement used to prevent and treat dehydration, especially due to diarrhoea. It simply involves drinking water with modest amounts of sugar and salts, especially sodium and potassium. Oral rehydration therapy (ORT) should routinely include the use of zinc supplements. The effectiveness of ORS has been estimated to decrease the risk of death from diarrhoea by up to 93%

How ORS was originated

In 1971 when the Bangladesh Liberation war had been continuing, as per a report as the war entered into monsoon season cholera emerged & spread quickly as heavy rain caused floods. Thousands of refugees entered India from Bangladesh. In the Bangaon camp of West Bengal a Kolkata-based paediatrician, Dilip Mahalanobis had been supervising the camp. The camp ran out of intravenous fluid saline at that time it was used for treating diarrhoea. The trained nurse or medical personnel were also very inadequate there. Out of desperation, Mahalanobis turned ORT. It was still not accepted as a diarrhoea treatment. Later with the support of John Hopkins University for Medical Research and Training in Kolkata began administering a precise mixture of table salt, baking soda, & commercial glucose with clean drinking water. The result was miraculous. Within 2 weeks the death rate dropped from 30% to 3.6%.



How does ORS work?

ORS is a well-formulated mixture of essential minerals used to combat the loss of fluids in the body. The combination of electrolytes and sugar stimulates water and electrolyte absorption from the gut. It reverses dehydration and replaces lost salts conditions such as diarrhoea and vomiting.

One should be careful while using of ORS

Use WHO-recommended ORS, not homemade ORS. Mixture with elements like sodium chloride, sodium citrate, potassium chloride, and dextrose in proper proportion increases the effectiveness of ORS. Secondly, one should choose WHO-branded ORS to have a good impact on a patient. Thirdly, ORS is suitable not only for children but also equally fit for adults. Fourthly, the use of water only cannot be a proper substitute for ORS.

SERUM's Corporate Social Responsibility (CSR)



Oct 12: General Meeting of Serum Thalassaemia Prevention Federation was held at Serum Auditorium



Oct 13: Smt. Nivedita Acharya at the inauguration of the Art Exhibition of Artist Smt. Nilanjana Bhattacharya



Oct 15: SERUM Group organized Bijaya Sammilani at Serum Auditorium



Oct 16: Sri Sanjib Acharya was at the Health Camp at Friends Sporting Club, Dalimtala Lane, Goa Bagan



Oct 22: Sri Sanjib Acharya at Naba Yubak Sangha (Fata Keshto Kali Puja) for the inauguration of Sri Sri Kali Puja



Oct 22: Sri Sanjib Acharya inaugurated the Sri Sri Kali Puja of Netaji Tarun Sangha with eminent Minister Dr. Shashi Panja



Oct 22: Sri Sanjib Acharya at the inauguration of Kali Puja of Amherst St. Sadharan Sri Sri Kali Puja Committee



Oct 28: Blood Donation Camp to celebrate the 155th birthday of Sister Nivedita who devoted herself to the welfare of India



Oct 29: Free Health Checkup at Serum Auditorium by Dr. Prabhat Bhattacharya



Oct 31: Sri Sanjib Acharya at the inauguration of Sarbojanin Sri Sri Jagadhatri Puja at Hari Ghosh St, Pallibasibrinda with Minister Dr. Shashi Panja



Oct 31: Sri Sanjib Acharya at the Agni Bina Club, Bechu Chatterjee Street



An initiative of **SERUM Analysis Centre (P) Ltd.**

This is a Medical Bulletin. Edited, compiled & published by Editorial Board for and on behalf of S SERUM Analysis Centre (P) Ltd., 82/4B, Bidhan Sarani, Kolkata 700004. Chief Editor: Sanjib Acharya. Website: sserumanalysiscentre.com e-Mail: serum.kol@gmail.com

Phone: +91 62895 32188 / 98302 74990 / 98300 16594

Information & Local Booking Centre,
SERUM Group

