

NEWS ARTICLE PUBLISHED BY DR SUDHIR BHANDARI

UNDER THE LEADERSHIP OF DR SUDHIR BHANDARI THE GOLDEN ERA OF SMS MEDICAL COLLEGE



ANITA NAGA
Editor, City First

The tenure of Dr Sudhir Bhandari as the principal and controller of the country's leading medical institute, Sawai Mansingh Medical College, has been very commendable, exemplary and incomparable. The all-around development of SMS Medical College, done under his leadership, has not happened during the tenure of any previous principal and the results and evidence of which are visible from time to time, directly or indirectly all around Sawai Mansingh Medical College.

The first of the works done by Dr Sudhir Bhandari is the development of the infrastructure of various departments located in the Medical College and attached hospitals. New dispensaries were established in all the departments at the cost of Rs 100 Crores during his four years tenure. The first of these is the 24-storey IPD with 1100 beds, a unique entity across the country. The tower, whose foundation has been laid recently, has a helipad and air ambulance facility and will be completed in the next 30 months.

Apart from IPD Tower, the State-of-the-Art Institute of Cardiovascular Sciences (which will have facilities for heart disease patients), Institute of Neurosciences (affiliated with state-of-the-art facilities for brain diseases), high-end institute of Ophthalmic Sciences (for eye diseases) and 700 bedded Institute of Tropical Medicine, all will be wonderful gifts of Dr Bhandari to SMS Medical College and the entire state.

The development of 500 bedded IPD block with ICU, ward etc at the two women hospitals affiliated to SMS Medical College, namely Zennana Hospital and Mahila Chikitsalaya was also possible during the tenure of Dr Bhandari.

SMS Hospital and other

attached hospitals like JK Lon and TB hospital also got the facilities of Advanced medical ICU stroke ICU, and pre-fabricated ward during his tenure.

Right storied state-of-the-art super-specialty hospital dedicated to high-end facilities with a modular operation theatres and 300 beds for departments like Urology, Nephrology, Gastroenterology, Hepato Pancreato Biliary Surgery, was also started during the tenure of Dr Bhandari.

Along with infrastructure development, Dr Bhandari uplifted the institute by providing state-of-the-art equipment in all departments. These include the Navigation System of the Neurosurgery Department, Laser Machine of the ENT Department, Robotic Surgery System and MRI Machine of the Urology Department, DSA Machines, Cacan in JK Lone Hospital etc to name a few.

During the tenure of Dr Bhandari, NICU/PICU was started in various hospitals like JK Lone, Gangori Hospital, Mahila Chikitsalaya, Zennana Hospital and Social Colony Hospital. Many blood banks were also upgraded in these various hospitals. The IVF Center of Mahila Chikitsalaya developed during the tenure of Dr Bhandari, is proving to be a boon for childless couples.

The 20 bedded negative pressure ICU in the Infectious Diseases Hospital, the day-care dialysis centre for patients with end-stage kidney disease and Skin Bank for Burn patients started in the SMS Hospital is a testament to the strong leadership of Dr Bhandari.

During his tenure, Dr Bhandari developed a 7-storey State Cancer Institute with state-of-the-art facilities for cancer patients. It is emerging as one of the leading Cancer Medical Institutes all over India and the modern diagnostic techniques like GAMMA camera and PET scan available here are setting an example across the country.

Along with these up-gradation works, Dr Bhandari also established many new departments at SMS Medical College dur-



ing his tenure, including Palliative Medicine, Emergency Medicine, Geriatric Medicine, Tropical Medicine, Sports Medicine, Clinical Immunology and Rheumatology, Hepato Pancreato Biliary Surgery, Pediatric Nephrology and Surgical Gastroenterology, and those will further put SMS Medical College on the world map in future.

Due to Bhandari's visionary vision, Sawai Mansingh Medical College is one of the leading selective institutions in the country where a maximum number of UG and PG students come to study. During the tenure of Dr Bhandari, the number of PG seats in SMS Medical College increased from 300 to 600 and DM/MCH seats from 70 to 100.

Along with the state-of-the-art facilities for the patients, Dr Bhandari also did commendable development work for the students studying in Sawai Mansingh Medical College and the faculty doctors, including the construction of hostel rooms for 100 UG girls and 10-story PG hostel of 600 rooms and 6-storey Doctors Flat building.

When the whole world was battling the Covid pandemic in the year 2020, Dr Bhandari's efficient leadership and unimaginative hard work established Sawai Mansingh Medical College as a role model in covid management. When the general public and many health care workers themselves were suffering from fear psychosis of this new disease, Dr Bhandari himself took the task of Covid management to the front and set an example for everyone.

Due to Dr Bhandari's unique thinking, connection and tireless hard work, Rajasthan achieved unprecedented success in covid management. SMS Medical College became the first institution in the world, whose medical facility, day-care facility, oxygen supply system, ICU facility, Covid RT-PCR test, Cacan etc were exemplary. During this period, 20,000 corona positive patients were successfully treated and discharged from this institute. Along with the diagnosis of patients, research is also being done on various aspects in SMS Medical College under the guidance of Dr Bhandari and more than 100 research papers have been published.



Dr Sudhir Bhandari

Due to the exceptional leadership of Dr Bhandari, Sawai Mansingh Medical College has been leading in the management of COVID Associated Macer myositis (Black Fungus) all over the country, as a result of which the death rate due to this disease in Rajasthan (About 7%) is the lowest in the country (although in terms of a number of cases, Rajasthan was at the third place in the country).

During the tenure of Dr Bhandari, SOTTO was established in Rajasthan, under which our state is the leading state in the country in organ donation and today SMS Medical College is the first government institute in North India where transplants are being done successfully on a day to day basis. This in itself is a grand achievement for the state.

Due to the extraordinary personality of Dr Bhandari, the successful implementation of various health care schemes of the state government, fulfilling the interests of the common people, including Chiranjeevi Yojna, Free medicines, Free test scheme etc could be possible. Dr Bhandari is working wholeheartedly for the state government's concept of NIKROO RAJASTHAN.

During the tenure of Dr Bhandari, SMS Medical College was awarded 14th rank by India Today all across the country.

Undoubtedly it will not be an exaggeration to say that Dr Sudhir Bhandari is not only a great doctor, but he is such an unprecedented, visionary, exemplary and outstanding personality during whose golden tenure the Sawai Mansingh Medical College reached a height which it had never climbed before.



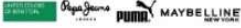
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CORONAVIRUS UPDATE

Total cases
13,857

New infections
315

In Jaipur
46



Total Deaths
330

Thursday's casualties | 17
(Jaipur 2, Bharatpur 6, Barmer 2, Bikaner 2, Chittorgarh 1, Churu 1, Kota 1, Jodhpur 2)

Total deaths in Jaipur | 143

Recovered on Thursday | 275 (Jaipur 41)

Recovered so far | 10,742

Sample received in state | 6,54,816

Sample negative | 6,36,216



HCQ beneficial as preventive drug: SMS doctors told ICMR

Over 4,300 Hosp Staff Given HCQ

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Jaipur: Sawal Man Singh Hospital was the first to use hydroxychloroquine (HCQ) and anti-HIV drugs — Lopinavir and Ritonavir — to treat the first few Covid-19 patients besides using the combination as a preventive drug on others.

More than 4,300 healthcare workers including doctors and nurses have been given HCQ to help them prevent the infection as there are high chances of them getting infected while treating Covid patients.

"As far as prophylaxis is concerned, more than 4,300 doctors and health workers were given HCQ as approved by Indian Council of Medical Research (ICMR) out of which around 45 health persons tested positive and recovered later," said Dr Sudhir Bhandari, principal and controller, SMS Me-

HOW SMS BECAME LEARNING GROUND

► Covid Plasma Therapy and Monoclonal Antibodies to critical ill patients with very good results

► Participation of each and every faculty member, resident doctors, nursing and paramedics who wholeheartedly were committed for best of care

► Each and every patient with or without co-morbid conditions was discussed, their management was planned and close monitoring done

► At investigation front, in March first week initial samples of Covid-19 were sent to Pune and today SMS has acquired capacity of doing 3,500 tests per day

► SMS Medical College has done over 1,35,000 RT-PCR tests and the capacity per day will be 7,000 in the next two days

dical College.

The hospital claimed that preventive treatment approach at SMS Hospital has been very rewarding and results of these have been shared with ICMR.

"We have used these drugs with perfect scientific background and proven efficacy in SARS Cov-2 Infection and SMS Medical College created a bridge between point of no specific treatment till the specific drug treatment is established. All these drugs were part of solidarity trial by WHO of which SMS Hospital is a centre," said Bhandari.

SMS Hospital was declared as non-Covid hospital on June 1. But before that, it emerged as a role model of management of Covid patients. From the very beginning, 300 ICU beds and more than thousand IPD beds were dedicated for Covid patients. A separate Covid OPD and observation wards for suspects was created at Charak Bhawan. Also, 28 wards were created for Covid patients of different categories. For critically ill patients, Infectious Disease Hospital (IDH) was fully equipped with ICU facilities.

During the peak of the pandemic, average 500 plus

patients were admitted to SMS from asymptomatic category to severe category.

Number of faculty was put on floor duty, which included consultants from the department of medicine and anaesthesia. Resident doctors were doing duty in each shift and hundreds of nursing, paramedics and technicians were on round-the-clock duty.

Dr Bhandari, who headed the Covid-19 management programme, said like any best centre in the world, the investigations of patients included HRCT Chest, CT pulmonary angiography, ultrasonography of lungs and echo with doppler state was made available at SMS Hospital. "The CT Pulmonary Angiography of Covid-19 patients gave us new insight of pulmonary thrombus being also a cause of critical complications in patients. SMS is geared up with most advanced investigative facilities like assessment of cytokine storm," he said. All critical patients were also assessed for clotting disorder by D-dimer and many other tests.



Former foreign minister & Congress veteran **Madharsinh Solanki**, who also served four terms as Gujarat CM, dies at 83

Alek Sharma has relinquished his role as UN business secretary to take sole charge of COP26 - the UN climate summit scheduled for Glasgow

North Korea leader **Kim Jong-un** vows to advance capabilities, declaring that the nation will build land- and sub-launched ICBMs

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UK study bats for tocilizumab used for Covid cure in Raj since last year

Effective In Reducing Death Rate

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Jaipur: Tocilizumab drug, which Sawal Man Singh (SMS) Medical College has been administering to Covid patients since March, has been found quite effective in reducing mortality rate, a study conducted in the UK has said.

The study, 'REMAP-CAP trial' has shown that the two drugs - tocilizumab and sarilumab - reduced mortality rate in Covid patients.

UK's department of health and social care tweeted, "NHS patients in the UK who are admitted to intensive care will receive new potentially life-saving COVID-19 treatments. Clinical trial results show that tocilizumab and sarilumab could reduce risk of death for critically ill patients and time spent in ICU by 10 days."

Tocilizumab, which is used for treating diseases such as rheumatoid arthritis, is part of the Covid treatment protocol of the state.

"We have been providing tocilizumab since March to Covid patients and found it effective in reducing sickness and preventing patients from going to ventilator support and also probable suspected side effects taken care of," Dr Sudhir Bhandari, principal and controller, SMS Medical College, and head of the group of doctors for Covid treatment constituted by the state government said.

While treating patients, the doctors had discovered that cytokine storm, a condition in which the immune system attacks the body, was becoming common in critical patients. Initially, the SMS Hospital doctors looked for a medicine to block the cytokine storm, which may cause multiple organ and cardiovascular failures. For preventing cytokine storm, the doctors started



STATE COVID UPDATE



Saturday's casualties: 4 (1 each in Jaipur, Jodhpur, Bikaner, Nagaur)

Total deaths in Jaipur: 508

Recovered on Saturday: 1,098 (Jaipur 130)

Recovered so far: 3,03,060

Sample received in state: 54,50,256

Sample negative: 51,37,735

ted using tocilizumab.

Doctors have found treatment is effective in critical Covid patients suffering from bilateral pneumonia. Increased concentration of cytokine inflammatory markers such as interleukin-6 (IL-6) and IL-10 cause acute respiratory distress syndrome in which the level of oxygen in tissues and cells goes down dangerously and causes hypoxia. So, there is a need to block the cytokine storm and tocilizumab is proving an effective drug for such a condition, the SMS hospital doctors claimed, while adding that tocilizumab is a humanised monoclonal antibody against IL-6 receptor. The IL-6 is a cytokine which plays key role in Covid induced cytokine storms.

Doctors at SMS Hospital are keeping an eye on the level of IL-6, a cytokine, and other inflammatory markers in Covid-19 patients undergoing

ing treatment.

Meanwhile, the number of deaths in the state are continuously decreasing. In the last 24 hours, four persons died and 430 others tested positive taking the casualty count to 2,731 and infection number to 3,12,521.

Districts which reported new cases are Jaipur (77), Jodhpur (42), Kota (41), Dungarpur (26), Udaipur (24), Bhilwara (24), Ajmer (24), Nagaur (21), Alwar (14), Sirohi (14), Bundi (14), Rajasamand (14), Chittorgarh (10), Sikar (10), Baran (10), Bharatpur (8), Jhalawar (8), Banswara (7), Tonk (6), Karauli (6), Pali (5), Sawai Madhopur (4), Jhunjhunu (3), Jaisalmer (3), Hanumangarh (2), Dholpur (2), Barmer (1), Bikaner (1), Dausa (1) and Pratapgarh (1).

Jaipur reported its 508th Covid-19 death, Jodhpur 295th, Bikaner 167th and Nagaur reported 94th Covid-19 fatality.

State ready with 282 sites for vaccine drive

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Jaipur: The state has identified 282 locations for Covid vaccination, the move coming on a day the Centre announced to kick off the drive from January 16.

While 12 sites each in Ajmer, Bharatpur, Kota, Bikaner, Jodhpur, Udaipur, Alwar, Pali and Bhilwara have been prepared, Jaipur will have 13 vaccination locations. Seven sites have been prepared in each of the rest 23 districts.

On the directions of the Centre, the state has prepared one site each in Jaipur and Ajmer, which will be interaction sites with facilities of two-way audio-video facility.

A senior health department official said, "More than four lakh healthcare workers in the state have been registered for Covid vaccine. Among the healthcare workers are doctors, nurses, paramedical staff and hospital staff."

Jaipur will have one of the two interactive sites being prepared in the state. "We have developed the interactive site at SMS Hospital with facilities of audio-visual facility," said Dr Narrotam Sharma, chief medical health officer (Jaipur).

Through the site, the officials of the state will be able to remain in direct contact with the health ministry officials while monitoring the progress of vaccination on the launch day of the vaccine.

The health department had launched a campaign in the state helping the healthcare workers to get registered for the vaccine.

According to the Centre, the rollout of the vaccine will provide priority to healthcare workers and frontline workers who are estimated to be around 3 crore, followed by those above 50 years of age and the under-50 population groups with co-morbidities numbering around 27 crore in the country.

For vaccination, a Co-WIN

CS briefs Centre about Raj's prep

Jaipur: Chief secretary Niranjan Arya on Saturday briefed Union Cabinet Secretary Rajiv Gauba about the preparations for the rollout of the coronavirus vaccination programme in the state.

In a video conference with Gauba, Arya said that dry run was successfully conducted at 18 places in seven districts in the first phase on January 2 and at 102 places in all districts across the state on January 8.

He said that healthcare and frontline workers will be vaccinated in the first phase.

Arya suggested that panchayati raj staffs have also done good work at the grassroots level during the coronavirus pandemic and they should also be considered as frontline workers and be vaccinated on priority, according to a release.

In the first phase of the vaccination campaign, a total of 3,056 medical institutions have been identified as session sites, he said. Arya said the state has set up three state-level, seven divisional level and 34 district level vaccine stores while 2,444 cold chain points are functional at community and primary health centres.

Vaccine Delivery Management System, a unique digital platform, has been developed to provide real-time information of vaccine stocks, their storage temperature and individualized tracking of beneficiaries. This platform will assist the programme managers across all levels through automated session allocation for pre-registered beneficiaries, their verification and for generating a digital certificate upon successful completion of the vaccine schedule. More than four lakh beneficiaries have been already registered on the platform in the state.



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Joe Biden says, "Pree, Trump called India 'filthy' (his pollution remark). It's not how you talk about friends & it's not how you solve global challenges like climate change"

US top infectious disease expert Anthony Fauci says it'll be clear if a vaccine is safe & effective by early Dec, but that widespread vaccination will not be likely until later in 2021

South Korea's richest person and Samsung chairman Lee Kun-hee dies at 78. He leaves behind a \$21 billion empire to his son & 2 daughters

UK chancellor Rishi Sunak and 3 fellow Conservative Party MPs have been "banned for life" by a pub and restaurant after they voted against free school meals during holidays

British driver Lewis Hamilton makes Formula One history by winning the Portuguese Grand Prix for a 53rd career victory to move one ahead of German great Michael Schumacher

Now, US FDA says remdesivir drug effective in checking Covid deaths

WHO Had Said Drug Couldn't Check Mortality

TIMES NEWS NETWORK

Jalpur: Days after Sawal Man Singh Medical College refuted WHO's claim that remdesivir had little or no effect on the overall mortality of Covid-19 patients, the US Food and Drug Administration (FDA) has approved the drug for treatment.

TOI on October 21 had published a report on SMS Medical College refuting WHO's claim on remdesivir. "We had refuted WHO's claim on remdesivir and now USFDA has approved our claim. We have found it as a life-saving drug for Covid patients," said Dr Sudhir Bhandari, principal and controller, SMS Medical College.

"For patients with severe Covid, this approval gives hope that recovery from the infection would be effective and comprehensive when administered and titrated at the opportune time," said the team of experts from SMS Medical College Hospital, Jalpur, headed by Bhandari.

STATE COVID UPDATE

Total cases **1,86,243**



New infections **1,821**

In Jalpur **339**



Total Deaths **1,839**

Sunday's casualties | 13 (Jalpur 2, Ajmer 1, Barmer 1, Bikaner 1, Dholpur 1, Jhunjhunu 1, Jodhpur 2, Kota 1, Sikar 1, Tonk 1, Udaipur 1)

Total deaths in Jalpur | 363

Recovered on Sunday | 2,240 (Jalpur 716)

Recovered so far | 1,67,736

Sample received in state | 36,23,031

Sample negative | 34,34,999



pur, headed by Bhandari.

This comes at a time as doctors across the globe have been skeptical following a WHO report published on October 15 stating that nearly 3,000 people who received remdesivir were not more likely to survive infection with SARS-CoV-2 than those receiving standard of care.

These findings were in direct contrast to the report published on October 8 in the New England Journal of Medicine by a team led by researchers at the National Institute of Allergy and Infectious Diseases (NIAID) that documented the fact that remdesivir helped hospitalized Covid patients to recover faster compared to placebo, said the SMS Medical College officials.

Moreover, the NIH (National Institutes of Health) guidelines on use of antiviral drugs in Covid recommend use of remdesivir among patients who required supplemental oxygen. Though remdesivir can reduce the mortality rate and duration of

the illness, it was not considered entirely effective by WHO, said the officials.

On the other hand, Rajasthan's Covid management protocol drafted by team of experts from SMS Medical College Hospital, Jalpur, and issued on October 17 by the health department, had recommended the use of remdesivir in moderate to severe illness (those on oxygen), started early in the course of therapy. "We are providing it to patients with moderate symptoms and the results are encouraging," said Dr Ajit Singh, member of Covid treatment group, SMS Hospital.

The team of experts at SMS Medical College had refuted the WHO's findings and reiterated its stance and confidence in remdesivir as an effective antiviral ribonucleoside inhibitor of viral RNA polymerase drug even before the FDA approval. Remdesivir was first described in the literature in 2006 as a potential treatment for Ebola. In 2017, its activity against the coronavirus family of viruses was also demonstrated.

With the approval of FDA for use against the pandemic, the confidence among doctors has now been reinstated.

SMS experts' big 'Remdesivir' move stands vindicated

Vikas Sharma

Jaipur: The approval to medicine Remdesivir by the US Food and Drug Administration (FDA) for the treatment of COVID-19 has once again proved the stand of the experts of SMS medical college who now feel that Remdesivir is on its way to become the benchmark for exploring the effectiveness of potential other drugs in near future.

FDA has approved Remdesivir for the treatment of COVID-19 in a statement issued on October 23.

For patients with a severe form of COVID-19, this approval gives hope that recovery from the infection would be effective and comprehensive, when administered and titrated at the opportune time.

With this, the stand of team of experts from SMS Medical College Hospital, Jaipur headed by Dr. Sudhir Bhandari, Principal and Controller, stands vindicated.

The development comes at an important time as doctors across the globe have been skeptical after a controversial report published on October 15 by the World Health Organization (WHO) that nearly 3,000 people receiving Remde-



Dr. Sudhir Bhandari

sivir were not more likely to survive covid-19 infection than those receiving standard of care.

These findings were in direct contrast to the report published on October 8 in the New England Journal of Medicine by a team led by researchers at the National Institute of Allergy and Infectious Diseases (NIAID) that documented the fact that Remdesivir helped hospitalized COVID-19 patients to recover faster.

On the other hand, the Rajasthan COVID-19 management protocol drafted by a team of experts from SMS and issued on October 17 by the health department, had recommended the use of Remdesivir in moderate to severe illness (those on oxygen), started early in the course of therapy.

Dr Bhandari had refuted the WHO's findings and reiterated stance and confidence in Remdesivir.



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COVID-19 UPDATE		WORLD		INDIA		RAJASTHAN	
		4,48,108	83,27,973	12,065	3,63,209	313	13,542
		DEATHS	CONFIRMED CASES	DEATHS	CONFIRMED CASES	DEATHS	CONFIRMED CASES
MAHARASHTRA		TAMIL NADU		DELHI		GUJARAT	
5,537 DEATHS 1,13,445 CASES		576 DEATHS 50,193 CASES		1,837 DEATHS 47,102 CASES		1,561 DEATHS 25,148 CASES	
						UTTAR PRADESH	
						465 DEATHS 15,181 CASES	

SMS AN INSTITUTE OF EXCELLENCE

RAJASTHAN ON TOP IN RECOVERY FROM COVID-19

The exemplary cure rate of 75% plus of the State of Rajasthan has been an outcome of the amalgamation of brisk administrative action, outstanding government support, and visionary advanced action and best of health care facilities. Rajasthan was benefitted by very early lockdown by Government, preventive strategies of containment, and most effective contract tracing program. The creation of hundreds of surveillance teams and the number of Rapid Response Teams (RRT) was instrumental in the containment program. This was coupled up with outstanding medical care. SMS Hospital turned out to be a role model of management of Covid-19 patients. From the very beginning, a facility of 300 bedded ICU and more than a thousand bedded IPD was dedicated to Covid-19 patients. A separate covid-19

OPD and observation wards for suspected was created at Charak Bhawan, 28 Wards were created for Covid-19 patient's care of different categories.

For critically ill patients, Infectious Disease Hospital (IDH) was fully equipped with ICU facilities. During the peak of the pandemic, average 500 plus patients were admitted in SMS from asymptomatic category to severe category. The number of faculty was put on floor duty which included consultants from the Department of Medicine and Anaesthesia. Every day

more than 100 resident doctors were doing duty in each shift and hundreds of nursing, paramedics and technicians were on round the clock duty.

When spoken to Dr Sudhir Bhandari, Principal & Controller, SMS Medical College who managed Covid-19 at SMS containment program, he said we could handle it so successfully because of participation of each and every faculty member, resident doctors, nursing and paramedics, who wholeheartedly were committed for best of care. When asked about the high recovery rate of SMS, Dr Sudhir Bhandari said, we had a strong team of consultants, who strategized management of all grades of covid-19 patients. Each and every patient of Covid-19 with or without co-morbid conditions will be discussed, their management will be planned and close monitoring will be done. As per Dr Bhandari, who headed the Covid-19



Dr Sudhir Bhandari with team which got laurels to COVID-19 testing.

management program said that like any best centre in the world, the investigations of Covid-19 patients included HRCT Chest, CT pulmonary Angiography, Ultrasonography of Lung and Echo with Doppler state.

The CT Pulmonary Angiography of Covid-19 patients gave us a new insight into pulmonary thrombus being also a cause of critical complications in Covid-19 patients. SMS is geared up with most advanced investigative facilities like an assessment of cytokine storm (IL-1, IL-

6, IL-10, TNF ALFA, CD4, CD8, D-dimer, FDP, CRP, PRO-CAL). All critical patients were also assessed for clotting disorder by D-dimer and many other tests. Because of these advanced investigations in Covid-19 patients, the management of these patients was very scientific and our hospital is a pioneer in giving Covid Plasma Therapy and Monoclonal Antibodies to critically ill patients with very good results.

As per Dr Bhandari, SMS was the first hos-

pital to use Hydroxychloroquine and Anti HIV Drugs- Lopinavir and Ritonavir in the first few patients of Covid-19 with a very good outcome. He said this was used with the perfect scientific background and proven efficacy of these drugs in SARS Cov-2 Infection and SMS Created a bridge between the point of no specific treatment until the specific drug treatment is established. Today all these drugs are a part of solidarity trial by WHO of which SMS is a centre.

Because of intense management as per the grades of Covid-19 patients, the recovery has been a phenomenon, added Dr Bhandari.

As far as prophylaxis is concerned, more than 4300 doctors and health workers were given Hydroxychloroquine prophylaxis as approved by ICMR, out of which around 45 health persons were Covid positive and all were asymptomatic and recovered. Hence, the preventive treatment approach at SMS has been very rewarding and the

results of these have been shared with ICMR.

At the investigation front, in the first week of March initial samples of Covid-19 were sent to Pune and today SMS has acquired the capacity of doing 3500 tests per day inhouse. As per Dr Bhandari, it is a sense of pride that as on today SMS Medical College has done more than 1,35,000 RT-PCR tests, and soon in the next two weeks with the arrival of new equipment, our capacity is going to be 7000 per day.

When asked about this success story of Covid-19 Management, he said all this has been possible because of the intense participation of each and every faculty member and paramedics. Department of Medicine, Microbiology, Anaesthesia, and my Additional Principal colleagues, Nursing Staff, and technicians deserves special thanks. This was coupled up with the unlimited support of administrators and Government.



कोरोना पर प्रतिघात में नंबर-1 राजस्थान एसएमएस के ट्रीटमेंट प्रोटोकॉल और कंटेनमेंट इन्वेस्टिगेशन मॉडल से मृत्यु दर 4 से 0.4% पर ले आए: डॉ. भंडारी



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कॉलेज, जयपुर

गंभीर मरीजों के इलाज में रेमडेसिविर और टॉसिलीजुमैब कारगर हुईं?

डॉ. भंडारी कहते हैं कि कम लक्षण वाले मरीज तो तेजी से रिकवर हो रहे थे लेकिन सीवियर मरीजों की मौतों को रोक पाना चुनौती था। तब तक डब्ल्यूएचओ ने रेमडेसिविर को मान्यता नहीं दी थी लेकिन एसएमएस अस्पताल में कोविड प्रोटोकॉल ट्रीटमेंट टीम ने इसे काम में लिया। गंभीर मरीजों को रेमडेसिविर इंजेक्शन देने पर अच्छे नतीजे मिलने लगे, बाद में यूएसएफडीए ने रेमडेसिविर इंजेक्शन को कोविड ट्रीटमेंट के लिए कारगर माना। एसएमएस अस्पताल में प्लाज्मा थेरेपी सुविधा के साथ ही प्लाज्मा बैंक बनाया। पहली और दूसरी लहर में मरीजों की संख्या तेजी से बढ़ने लगी तो एसएमएस के साथ आरयूएचएस, महिला चिकित्सालय,

कोरोनाकाल में एसएमएस के साथ आरयूएचएस, महिला चिकित्सालय, जयपुरिया सहित 5 अस्पतालों में 3 हजार ऑक्सीजन सिलेंडर और 600 बेड का आईसीयू इवेलप किया। एसएमएस की कोविड से मुकाबले की जंग पर प्रिंसिपल डॉ. सुधीर भंडारी से विशेष बातचीत

जयपुरिया सहित 5 अस्पतालों में 3 हजार ऑक्सीजन और 600 बेड का आईसीयू इवेलप किया। डेढ़ साल से अब तक इन अस्पतालों में तीस हजार मरीजों का इलाज किया जा चुका है, इनमें से करीब एक हजार कोविड मरीज दूसरे राज्यों के हैं। अप्रैल-2020 में एसएमएस में आरटीपीसीआर जांच क्षमता काफी कम थी, अब प्रतिदिन 10 हजार सैंपलों की टेस्टिंग हो रही है और 15 लाख से ज्यादा टेस्ट अकेले एसएमएस अस्पताल में हो चुके हैं।

ब्लैक फंगस चुनौती, 16 डॉक्टरों का म्यूकोरमाइकोसिस बोर्ड बनाया: दूसरी लहर के दौरान ही जब अचानक ब्लैक फंगस के मरीज बढ़ने लगे तो इसकी

से सेवाएं दे रहे हैं। डॉ. भंडारी ने एमडी, डीएनबी करने के बाद इंग्लैंड में फेलो रॉयल कॉलेज ऑफ फिजिशियन और अमेरिका में फेलो अमेरिकन कॉलेज ऑफ फिजिशियन एंड एंडोक्राइनोलॉजी की डिग्री हासिल की। इनके 80 से ज्यादा शोध पत्र प्रकाशित हो चुके हैं और 100 से ज्यादा राष्ट्रीय, अंतरराष्ट्रीय कांफ्रेंस में हिस्सा ले चुके हैं। इनकी देखरेख में स्पोर्ट्स मेडिसन, पैल्योपेटिव, गेरियाट्रिक, ट्रॉपिकल और इमरजेंसी मेडिकल विभाग खोले गए। न्यूरो आईसीयू, स्किन ट्रांसप्लांट, डे-केयर डायलिसिस सेंटर, जेके लोन, महिला अस्पताल में आईसीयू और एक्मो सुविधा शुरू हुई। ट्रांसप्लांट प्रोग्राम के तहत



रोकथाम के लिए 16 डॉक्टरों का म्यूकोरमाइकोसिस बोर्ड बनाया गया। इसके बाद पूरे देश में ब्लैक फंगस की सबसे अच्छी रिकवरी एसएमएस में दिखी।

देशभर में रोल मॉडल बने एसएमएस मेडिकल कॉलेज के प्रिंसिपल डॉ. भंडारी के अचीवमेंट्स

एसएमएस मेडिकल कॉलेज के प्रिंसिपल और सीनियर प्रोफेसर मेडिसन विभाग डॉ. सुधीर भंडारी की देखरेख में कोविड मैनेजमेंट बेहतर रहा। डॉ. भंडारी 30 साल

एसएमएस में हार्ट, किडनी, लिवर ट्रांसप्लांट हो रहे हैं। डॉ. भंडारी कोविड ट्रीटमेंट ग्रुप के हैड और कोविड-19 स्टेट एडवाइजरी बोर्ड के सदस्य भी हैं।

इनके प्रयास का नजिता है कि एसएमएस में 22 आईपीडी टॉवर और इंस्टीट्यूट ऑफ कार्डियोलॉजी सेंटर बनाया जा रहा है। आईपीडी टॉवर में हेलिपैड सुविधा होने से सीधे मरीजों को एयर एंबुलेंस फैसिलिटी मिलेगी, इससे आर्गन ट्रांसप्लांट में भी फायदा होगा।

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PROBE AGENCIES CARRYING OUT AN 'AUDIT' OF MY FATHER'S GRAVE, SAYS MEHBOOBA MUFTI

STERN ACTION, LAW NEEDED AGAINST STONE-PELTERS: SHIVRAJ SINGH



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HEALTH MATTERS

COVID-19 Journey: From initial learning to vaccine

Dr Sudhir Bhandari

Jaipur: The sphinx of the journey of COVID-19 has been very confounding that has left the medical fraternity bewildered and baffled. As is the practice of any disease process with protean manifestations afflicting humans across the globe, COVID-19 Pandemic witnessed a deluge of conflicting information, came to be known as Infodemic, that during the time-defied course of the disease was singled out with characterization and identification of the disease profile along with evolution of a probable definitive symptomatic management. COVID-19 challenged the frontiers of Medical Science testing its limits through it extremes taking humankind for a ride. However, the hu-

man spirit and endurance after getting its due beating, as per its nature rose from the ashes, like the allegorical Phoenix, and evolved a multidisciplinary approach involving specialities from fields of Medicine, Economics, Health, Social Care, Industry and Logistic measures to tackle the menace of pandemic.

The first case of the novel coronavirus was first reported from Wuhan City in China in December 2019. The Chinese authorities later identified cases with onset of symptoms in early December 2019. While some of these were linked to the wholesale food market in Wuhan, some were not.

Many of the early patients worked or visited the market and samples taken from the area around the market implicated this area as the



Dr Sudhir Bhandari, Principal & Controller of SMS Medical College & attached group of hospitals at Jaipur.

source of the outbreak, though there are still many questions that remain answered relating to origin of the virus and its probable definitive management.

The looming specter of COVID-19 had appalled and stunned the humankind all alike taking the most viable available preventive guidelines for such rapidly

evolving pandemic for a ride, more so for countries with high population density like India, where adhering to the laid down guidelines (that were evolving with a better appreciation of the profile of SARS-CoV-2) had become a herculean task for all Governments across the Nation. In such an intimidating background, the

Government of Rajasthan authorized its primal Teaching Medical College, SMS Medical College Hospital, Jaipur, a premier Institute of International standards, to take up the onerous task of combating the menace of the pandemic in a logical, precise and objective manner evolving definitive management and preventive protocols of COVID-19. A state of art ICU with 50 beds was created exclusively for this purpose. It included advance ventilators, provisions for high flow nasal oxygen therapy, dialysis and in house monitoring for COVID-19 patients. The traumatology and orthopedic institute augmented with a 16 bedded ICU and specialized capacity and skill development training labs.

The SMSMCH, Jaipur, with its privileged, elan

& insightful resources, very closely monitored the course & profile of the pandemic & intelligently evolved a stratagem aimed at curbing the upsurge & spread & evolving a definitive management protocol maintaining recovery rates to a maximal high bringing down the dread & fear of the pandemic to bare minimum. The evolving definitive management protocol & preventive guidelines so framed by SMSMCH, Jaipur under its abled leadership of Professor Dr Sudhir Bhandari became the benchmark for others to follow across Rajasthan & the Nation that were an outcome of herculean tasks framed & adopted by the Institute of maximally optimizing the number of diagnostic tests for SARS-CoV-2, aggressively managing COVID-19.

THE STATE OF RAJ 2020 TIMELINE

02 March	Rajasthan reported its first case of COVID
19 March	Section 144 was imposed which restricted gathering of two or more
22 March	Announced complete lockdown (except for essential services)
22 March	Started screening of all passengers reaching Jaipur through air keeping the ones showing symptoms in home isolation for 14 days
22 March	Banned Public Transport
24 March	Banned Private Transport
11 April	Announced COVID Insurance scheme
07 May	Sealed State Borders
31 May	Lockdown extended till 30th June (few relaxations)
19 June	Special mobile COVID awareness programme started
19 June	COVID and other illnesses survey started
20 June	Initial notification for COVID testing and treatment rates
07 July	Clinical Management Protocol for COVID uploaded
07 Sep.	COVID dead body disposal management guidelines published
11 Sep.	Guidelines for control of COVID in Educational & Training
05 Oct.	Guidelines for rational use of Oxygen released
18 Nov.	Post COVID Syndrome Management Protocol released
28 Nov.	RT-PCR rates slashed to rupees 800 for private lab testing
28 Nov.	Mobile Medical Units deployed for high risk zones
01 Dec.	COVID Insurance Scheme was approved by the Govt
09 Dec.	As per recommendations of the Core Treatment Committee from SMSMCH, Jaipur, Revised COVID Management Protocol was published by the Rajasthan Government



German Chancellor **Angela Merkel** makes first public appearance wearing a mask after dismissing accusations of hypocrisy for not wearing one

A variation in genome of coronavirus named 'D614G' has improved its ability to infect human cells, and made it dominant strain around the world

Pakistan foreign minister **Shah Mehmood Qureshi** tests positive. Britain says it will allow quarantine-free international travel to some low-risk countries in its green zone list

World
Covid Numbers
Cases: **10.9 million**
Deaths: **521,900**

China will restrict trading and slaughter of live poultry, and gradually close live poultry markets. The virus is believed to have emerged at a market that sold live animals in Wuhan

US President **Donald Trump** visits Mount Rushmore for July 4 celebrations. Some 7,500 people expected to attend event, ignore social distancing

THE TIMES OF INDIA

India's Largest English Newspaper



A TRIBUTE TO SERAPHS WITH STETHOSCOPE

As we recently celebrated Doctors Day, all medical personnel who have been serving mankind to combat the potential menace of Covid-19 need special honour and acknowledgement!

The practitioners of Medical Sciences have very systematically and diligently pooled in their resilient resources to negate and vitiate Covid-19. Such a ground-breaking revelation could be conceptualized through concerted efforts of a team, so immaculately and impeccably designed by head of a premier Institute of Asia, Professor (Dr.) Sudhir Bhandari, Principal and Controller, SMS Medical College and Attached Hospitals, Jaipur, translating the institute into a centre of excellence, providing the requisite framework for strategy and policy making for the state of Rajasthan, becoming a



Dr. Sudhir Bhandari

torch-bearer and trend-setter for other states evolving an extraordinary cure rate of 75% plus for Covid-19 patients, through outstanding government support and visionary advanced action and most adequate and appropriate health care facilities customized individually for patients.

The aggressive strategy of the Covid-19 containment programme, including timely proactive work up on diagnosis and management with adequate treatment, was responsible for the present-day status of Rajasthan as a trend-setter. The team at SMS under Dr. Bhandari's able and visionary leadership through a methodical approach evolved a definitive management protocol customized for severity specific Covid-19 patients.

"The CT Pulmonary Angiography of Covid-19 patients gave new insight of pulmonary thrombus being a probable cause of critical fatal complications in patients along with assessment of cytokine storm and coagulopathy through most advanced investigative facilities at SMS. Such an in-depth analysis and multi-faceted research

program of COVID19 disease process culminated in formulating and designing a definitive customized management protocol as per severity of COVID-19 patients, making use of COVID-19 plasma therapy, monoclonal antibody tocilizumab and Hydroxychloroquine (HCQ) and anti-retroviral drugs of lopinavir and ritonavir that in essence culminated in today's exemplary recovery rate of state of Rajasthan supplanted by a phenomenal 1,60,000 RT-PCR tests for COVID-19 done at SMS alone, a path to be emulated by other states of India. Such an ever-evolving

increasing recovery rate among COVID-19 patients in the state is a result of enhanced testing facilities of 3000 RTPCR per day that would be enhanced to 7000 per day," says Dr. Sudhir Bhandari, adding, "The relentless efforts of SMS have resulted in today's picture of 80% COVID-19 patients being asymptomatic, around 10 to 15% being mildly symptomatic and remaining 5% requiring aggressive critical care management and it is envisaged to bring down the mortality rate to 2-3%. SMS leads the way in COVID-19 plasma therapy and WHO solidarity trial."

The Institute has both speciality and super speciality departments with state-of-the-art facilities in the area of academics, with an OPD of more than 14,000 patients per day and operational 90 parallel running theatres, also five new departments of Sports Medicine, Tropical Medicine, Palliative Medicine, Geriatric Medicine and Trauma Medicine along with specialized Rheumatology unit have been initiated. The institute has a digitalized library with up to date apps for every student and faculty and is a pioneer centre for Organ transplant programme, where around two heart transplants, four Cadaver Liver transplants and 6-8 live kidney transplants are being done every month. All this is the outcome of untiring efforts of Dr. Sudhir Bhandari and his team who deserve a salute!



THE TIMES OF INDIA



Four original drawings of Albert Uderzo, the creator of Asterix, who died from Covid-related complications, auctioned for nearly 400,000 euros. The money will benefit Paris hospitals battling the pandemic.

A Chinese team on Wednesday reached Mt Everest through Tibet to remeasure the exact height of the tallest mountain. According to China, the height of Everest is 8,844.43 m, which is 4 m less than Nepal's calculations.

US scientists have found that coronavirus can spread up to 3 times further in cold & humid weather. Droplets carrying virus can travel up to 20 ft, making social distancing norms of 6 ft insufficient.

France, Italy and Belgium halt the use of hydroxychloroquine to treat Covid patients, days after WHO paused the trial on the drug. Global cases touch 5.6m & toll crosses 351,000. US toll nears 1L.

US Prez Trump threatens to shut social media platforms after Twitter puts a 'fact-check' label, redirecting readers to other articles, on two of his tweets for the first time. Trump's tweets had claimed that mail-in ballots are fraudulent.

SMS Hosp tests new 'Wuhan drug' to treat Covid patients

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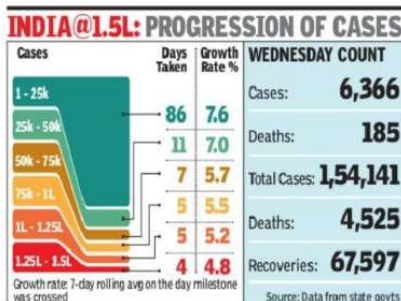
Jaipur: The city's Sawai Man Singh Hospital is using a 'new' drug, tocilizumab, for Covid-19 treatment. This drug was successfully given to patients in Wuhan, the epicentre of Covid-19 outbreak. Tocilizumab is used for treating diseases such as rheumatoid arthritis. The 'controversial' drug hydroxychloroquine (HCQ) too is

► Aggressive testing to check wider spread, P 9

used for treating arthritis. The SMS Hospital has given tocilizumab to two patients, so far, and has claimed that it is showing good results.

The hospital, which has provided treatment to over 1,000 Covid patients, has already taken initiative to use drugs such as hydroxychloroquine, lopinavir-ritonavir, a combination useful for HIV treatment; and plasma therapy.

► Continued on P 2



It took 109 days to hit 1L, just 9 to add 50k more

India crossed the grim milestone of 1.5 lakh with 6,366 fresh cases on Wednesday, taking the country's total tally to 1,54,141. While it took 109 days to breach the one-lakh mark, it took just nine days to cross the level of the next 50,000, indicating a huge spurt.

Maharashtra continues to

contribute a major chunk, adding 2,190 fresh patients — more than one-third of the nation's cases on Wednesday. With 105 more deaths, it also became the first state in India to register a triple-digit toll in a single day, taking India's toll to 4,525. Rajasthan reported 230 fresh cases and three deaths. P 6

'Treatment effective in critical patients'

► Continued from Page 1

Jaipur: Now, in the series, the doctors have decided to use tocilizumab for treating Covid patients.

While treating patients, the doctors had discovered cytokine storm, a condition in which the immune system attacks the body in critical patients. The doctors at the hospital looked for a medicine to block the cytokine storm, which could cause multiple organ and cardiovascular failures. For preventing cytokine storm, the doctors started using tocilizumab. "So far, we have provided tocilizumab to two patients. They have responded well to the treatment. Three other patients are lined up for the same treatment,"

said Dr Sudhir Bhandari, principal and controller, SMS Medical College, and one of the five members of the core group for treating Covid-19 at SMS Hospital.

The treatment is effective in critical Covid patients, suffering from bilateral pneumonia.

"Increased concentration of cytokine inflammatory markers such as interleukin-6 (IL-6) and IL-10 cause acute respiratory distress syndrome in which the level of oxygen in tissues and cells goes down dangerously and causes hypoxia. So, there is a need to block the cytokine storm and tocilizumab is proving an effective drug for such a condition," said Dr Ajit Singh, a member of the core group.

#DoctorsDay: Celebrating efforts of front-line warriors of Jaipur

An outside view of the hospital



As we celebrate Doctor's Day today, medical personnel, who have been serving mankind to combat COVID-19, deserve special honour and acknowledgement.

Dr Sudhir Bhandari, Principal and Controller, SMS Medical College and Attached Hospitals, Jaipur, along with his team is helping provide the requisite framework for strategy and policy-making for Rajasthan. "The CT pulmonary angiography of COVID-19 patients, along with the assessment of cytokine storm and coagulopathy through advanced investigative facilities at the institute, gave a new insight into pulmonary thrombus being a probable cause of critical fatal complications in patients. Such an in-depth analysis of COVID-19 culminated in formulating a customised management protocol as per the severity of the patients while making use of COVID-19 plasma therapy, monoclonal antibody tocilizumab and Hydroxychloroquine (HCQ), and anti-



Dr Sudhir Bhandari

retroviral drugs of lopinavir and ritonavir. Around 1,60,000 RT-PCR tests for COVID-19 have been done at SMS alone. There have been 3,000 RTPCR per day that would be enhanced to 7,000 per day," says Dr Bhandari, adding, "The efforts of our team has resulted in 80% COVID-19 patients being asymptomatic, around 10 to 15% being mildly symptomatic and remaining 5% requiring aggressive critical care management. It is envisaged to bring down the mortality rate to 2-3%."

The institute has both speciality and super speciality departments with state-of-art facilities in the area of academics, research and patient care catering to undergraduate, postgraduate and super speciality programmes. It also boasts of a digitalised library. It runs an Organ Transplant Programme, under which two heart transplants, four cadaver liver transplants and 6-8 live kidney transplants are being done every month.



THE TIMES OF INDIA

INDIA'S LARGEST ENGLISH NEWSPAPER

Incumbent Bihar administration adds a new Twitter account, @SecordGentleman, for Douglas Kenwell, VP-elect Komala Harris's husband

Argentine golfer Angel Cabrera arrested in Brazil, will be extradited to face charges for several crimes. Cabrera had won the 2007 US Open, edging out Tiger Woods and Jim Furyk by one shot

IMF chief Kristalina Georgieva probes India for 'very decisive' steps to deal with Covid and its economic consequences, predicts improved outlook in World Economic Update on Jan 26

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Dr Sudhir Bhandari will be 1st to get vaccinated in state

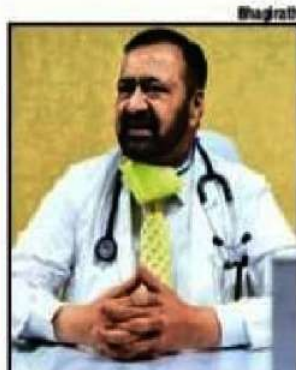
Ashish Mehta
@timesgroup.com

Jalpur: Amidst many apprehensions over the corona vaccine and its effects, the principal and controller of SMS medical college Dr Sudhir Bhandari will get the first dose of Covid-19 vaccine at the main vaccination centre at SMS hospital.

He stated that people should get vaccinated without any fear as it has been prepared by learned scientists of the country. He would be the first beneficiary among the health workers of Rajasthan, while the state would launch the vaccination programme on Saturday.

Ahead of the start of the vaccination programme, he spoke to TOI and shared his views on the vaccines.

"Let me tell you that India produces 60% of the vaccines for various diseases and vaccines for corona are scientific innovation by the most talented scientists of our country. With full faith and confidence, I am taking this vaccine just to convey my fellow countrymen that I have full faith in



Volunteered to give a loud and clear message that the vaccine is safe, says Dr Sudhir Bhandari

our indigenous vaccine," Dr Bhandari said.

He added that he was also Covid-19 positive almost three months ago. "A person who had Covid-19 almost 18 weeks ago can have the vaccine without any fear or apprehension," he added.

Asked why he volunteered to get the jab as the first beneficiary in the state, he said, "Look, SMS hospital has been pioneer in Covid-19 management and its related medicine protocol. We followed HCQ and other medicines while the world was demoralizing and spreading wrong news on these

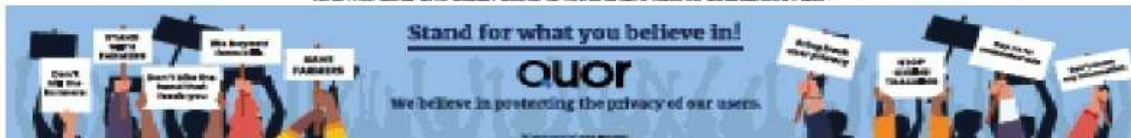
A NOTE OF CAUTION

- It should not be given to people below 18 years of age
- Persons with a history of anaphylactic or allergic reaction to the previous dose of Covid-19 vaccine
- Immediate or delayed onset of allergic reaction to the vaccines or injectable therapies, pharmaceutical products, food items
- Pregnant or lactating woman

medicines. We pioneered plasma therapy and were successful in bringing down the mortality by administering remdesivir and other injections. Now, when vaccination has started, I have volunteered to give a loud and clear message that our vaccine is safe," he added.

He added that Rajasthan started administering tocilizumab injection to ensure that serious patients of Covid may not go into ventilator support. "A UK study too, has subscribed to our idea of tocilizumab injection," he added.

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26



'Check on protein spike is key to containing disease'

Intishab.Ali@timesgroup.com

Jaipur: SMS Medical College has claimed that certain proteins and enzymes, whose level increases in blood after corona infection, causes Covid disease progression.

Among those are C-reactive protein (CRP), a protein made by the liver, ferritin (a major iron storage protein in the body), troponins (a group of proteins found in skeletal and heart muscle fibres), D-dimer (a small protein fragment present in the blood), lactate dehydrogenase (LDH), an enzyme found in almost every cell of one's body, and creatine phosphokinase (CPK), an enzyme. If the level of these proteins and enzymes are found to be elevated than normal levels in Covid-19, it shows that the disease is progressing and need immediate requirement of treatment.

SMS Medical College has included these proteins as risk factors for Covid disease progression in its revised management protocol prepared under principal and controller Dr Sudhir Bhandari.

"The first week is infection period while second and third week is inflammatory week. First the ferritin and LDH rises, followed by d-dimer, CRP and other inflammatory markers rise such as Interleukin 6 (IL-6) and IL-10. The rise in these inflammatory markers affect the functioning of kidney, heart and liver. It causes blot clots in vessels, pneumonia and acute respiratory distress syndrome (ARDS) also it may cause cardiac attack," said Dr Bhandari.

RISK FACTORS FOR COVID PROGRESSION IN REVISED TREATMENT PROTOCOL

Abnormality	Possible threshold
D-dimer	>1000ng/mL (normal range: <500ng/mL)
C-reactive protein (CRP)	>100mg/L (normal range: <8.0mg/L)
lactate dehydrogenase (LDH)	>245units/L (normal range: 110 to 210 units/L)
Troponin	>2ULN (normal range: females 0 to 9ng/L; males 0 to 14 ng/L)
Ferritin	>500 mcg/L (normal range: females 10 to 200 micro grams/L; males 30 to 300 micrograms/L)
creatine phosphokinase (CPK)	>2ULN (normal range; 40 to 150 units/L)
Absolute lymphocyte count	<800 microliter (normal range for age >21 years: 1800 to 7700/microliters)

ney, heart and liver. It causes blot clots in vessels, pneumonia and acute respiratory distress syndrome (ARDS) also it may cause cardiac attack," said Dr Bhandari.

The SMS Medical College's revised treatment protocol encourages physicians to keep an eye on the level of these body proteins and enzymes for providing treatment immediately to avoid complications.

In case the lactate dehydrogenase (LDH) test rises alarmingly, it may damage to the body's tissues as it is found in almost every cell of the body, including blood, muscles, brain, kidneys, and pancreas. Besides, doctors have related blood ferritin levels to the severity of Covid as it can be a marker of viral replication. Since, blood clotting has been seen in serious Covid patients, d-dimer test has become an effective tool for assessing clot formation. Besides, CRP levels in the blood increase due to inflammation. It is a tool to assess inflammation due to infection or disease.

For ensuring that heart has not been damaged due to Covid, the revised treatment protocol has suggested to doctors to conduct troponin test, which helps in detecting that heart muscles have not been damaged. If the level of troponin proteins rises to certain point, it indicates that heart muscles have been damaged. Besides, Creatine Phosphokinase or CPK test helps in detecting heart attack.

The doctors are using the protein and enzymes tests in dedicated Covid-19 hospitals regularly to provide the treatment to the patients accordingly to prevent mortality due to complications caused by Covid-19.

जयपुर. वीर सेवक मंडल की ओर से आरयूएचएस अस्पताल में भर्ती मरीजों, परिजन एवं स्टाफ सहित अन्य लोगों के लिए चाय-बिस्कुट की व्यवस्था की जा रही है। अध्यक्ष महेश काला एवं मंत्री भानु छाबड़ा ने बताया कि एसएमएस मेडिकल कॉलेज के प्रिंसिपल डॉ. सुधीर भंडारी को 'ज्वैल्स आफ सर्विस' अवार्ड से सम्मानित किया।

INTERVIEW | SUDHIR BHANDARI

'Aggressive nature of pandemic's second wave handled effectively'

Third, fourth waves predicted between Sept. and Dec.: expert

MOHAMMED IQBAL

The State-Level Core Team on COVID-19 Management and Care in Rajasthan has effectively handled the aggressive nature of second wave of pandemic by managing the younger and paediatric population. But the adolescents, who have not been vaccinated so far, may be affected more in the subsequent waves, says Dr. Sudhir Bhandari, head of the Core Team and Principal of Sawai Man Singh Government Medical College, Jaipur.

The COVID-19 pandemic has put an unprecedented load on health facilities and stretched the infrastructure in Rajasthan to its limits. How can we ensure optimum utilisation of the available resources, including oxygen, and convince the people to make a judicious use of facilities available?

■ The second wave of pandemic has been very aggressive with more and more younger population and children being affected. Unlike the first wave, 60% to 70% of the moderate to severe patients are oxygen dependent and require critical care. To meet out this situation, we have created COVID-19 triage at our dedicated institutions, where we segregated mild or asymptomatic for home quarantine, while the mild to moderate are admitted to provide them medical support.

We have also conducted sensitisation programmes for doctors, paramedics and public at large for early reporting, optimal use of oxygen, proning and physiotherapy.

As the head of the State-Level



Core Team on COVID-19 Management and Care, what was your remit and how have you helped the State government in identifying the key areas where action was needed?

■ Since the beginning of the first wave, we have been working intensely with our core team in various directions, such as building up infrastructure for COVID-19 patients, creating more oxygenated and ventilated beds and enhancing the capacity for RT-PCR testing. We started with zero test at Sawai Man Singh Hospital and raised to 10,000 tests per day. We are now capable of conducting more than one lakh RT-PCR tests a day in the entire State.

Our team was the first to use hydroxychloroquine and antiviral drugs Lopinavir and Ritonavir in the first three Italian COVID-19 patients. The core team headed by me has effectively handled the aggressive nature of the pandemic's second wave by managing the younger and paediatric population.

You were the first person to receive the COVID-19 vaccine dose in Rajasthan. Are there still apprehensions among the people about vaccination and have you succeeded in sending a clear message that our indigenous vaccine is safe?

■ I had the honour of being

the first person in Rajasthan to get vaccinated. Since we were the first in many ways, such as using hydroxychloroquine and implementing the COVID management protocols, I wanted to boost the morale of the whole medical fraternity by taking the vaccine first and increase the acceptability by the public at large with the confidence that the vaccines are safe.

There are reports that people are contracting infection even after getting one or both the doses of vaccine. Does it mean that the vaccine does not provide full protection and the people should adhere to the COVID appropriate protocol?

■ It is true that even after two doses, people are getting infection. The vaccination only protects from critical disease and ventilation and one might still contact asymptomatic or mild infection. Therefore, the compliance with the COVID appropriate behaviour, especially wearing the face mask and maintaining distance, is a must even after vaccination.

What is the likelihood of a third wave of the pandemic hitting Rajasthan and the country?

■ As per the epidemiological studies, the third and fourth waves of the pandemic are predicted somewhere between September and December this year. They can also merge with the second wave. There is a possibility that the adolescents and children, who have not been vaccinated, may be affected more in the third wave, as the middle age and elderly population has been vaccinated to quite an extent.

THE HINDU



SATURDAY, 26 DEC, 2020

Mutant strain of virus to be studied in Jaipur

Hospital developing facility at its lab

MOHAMMED IQBAL
JAIPUR

The mutant strain of the virus causing COVID-19, detected in Britain, will be studied at Sawai Man Singh Government Hospital here with genetic sequencing and testing of the spike protein. The biggest hospital in Rajasthan is developing the study facility at its state-of-the-art microbiology laboratory.

SMS Medical College's principal and controller Sudhir Bhandari told *The Hindu* on Thursday that the samples for study would be obtained from the patients returning from Britain and other European countries, who test positive in the regular RT-PCR investigation. The hospital's Microbiology Department was already conducting 6,000 RT-PCR tests a day, he said.

The sequencing lab, expected to start shortly, will detect the mutation in SARS-CoV-2 by testing spike protein and the specific genes which were targeted as part of screening of the infection cases.

Dr. Bhandari said any structural changes found in spike protein or the mutation detected in the virus would indicate an alteration in its infection properties.

Chief Minister Ashok Gehlot also pointed out on Thursday that the new variant of the virus could spread 70% faster. He called upon the people to take all precautions to avoid infection and adhere to the protocol of wearing masks and maintaining social distancing.

☞ All these drugs [hydroxychloroquine and anti-HIV drugs] are today a part of solidarity trial by the World Health Organisation. The recovery rate has been phenomenal because of [our] intense management

SUDHIR BHANDARI
SMS Medical College's principal and controller

Mr. Gehlot said the infection by the new virus strain has been detected in countries, such as Austria, France and Belgium, in addition to Britain. The State government is alert for screening of the people travelling from these countries.

The SMS Hospital was the first medical institution to use hydroxychloroquine and anti-HIV drugs, Lopinavir and Ritonavir, in the first few COVID-19 patients earlier this year with encouraging results. "All these drugs are today a part of solidarity trial by the World Health Organisation. The recovery rate has been phenomenal because of [our] intense management," Dr. Bhandari said.

Dr. Bhandari, who heads the COVID-19 management group, said the State had achieved the recovery rate of 95% with the help of medical experts, administrative action and healthcare facilities. The condition of each patient with or without comorbid symptoms was assessed and their management planned along with a close monitoring, he said.


**DOCTOR'S DAY
SPECIAL**

A CONSUMER CONNECT INITIATIVE

Team SMS made the impossible, possible!



DR SUDHIR BHANDARI
Principal,
SMS Medical College

SMS Hospital is the biggest Government Hospital in the state with thousands of patients coming in everyday. The biggest challenge that was before us was to convert this huge hospital into a Covid centre while ensuring that we followed all safety guidelines and protocols but at this crucial juncture the entire team of SMS of 1500 resident doctors and 800 faculty all came together irrespective of their specializations and disciplines and transformed the hospital. We setup a separate centre for Covid patients and immediately started escalating our testing facilities. We were conducting almost 3000 tests per day and I am proud to say by middle of July we will be

conducting 7000 tests per day. The entire of SMS got together to create world class investigation facilities and with early diagnosis and aggressive testing we have been at just 2.3% of mortality rate which has been of patients with co-morbid conditions.

On this special day I would like to say that 'Team SMS' was the biggest strength and sole factor for accomplishing all that we did. Of course there was a lot of fear as this was a new virus and by the time it came to our state it had already been spreading the world over but in spite the odds all the resident doctors, faculties, nurses, lab technicians, pathologists everybody came together to make SMS one of the leading centres for treatment and care for Covid-19 patients.

THE TIMES OF INDIA

INTERNATIONAL NURSES DAY

INDIA'S LARGEST ENGLISH NEWSPAPER

WHO chief scientist Soumya Swaminathan lauds India for keeping Covid cases and toll very low compared with other countries and says it will play a key role in vaccine development.

FBI & Homeland Security dept are preparing to issue a warning that Chinese hackers and spies are working to steal American research work on vaccines and treatment against coronavirus.

Men's blood has higher levels than women's of a key enzyme used by coronavirus to infect cells, the results of a big European study show. Global cases cross 4.1m & toll over 263,000.

Wuhan, the epicentre of outbreak in China, reports its first cluster of infections since the city's lockdown was lifted a month ago. Meanwhile, the country opens Shanghai Disneyland to revive tourism.

New Zealand PM Jacinda Ardern announces a plan to reopen the economy and schools in the next 10 days. Social distancing rules will apply & gatherings will be limited.

Plasma therapy to treat COVID-19 starts at Jaipur medical college

As the fight against COVID-19 rages on, one of Rajasthan's biggest government-run hospitals Sawai Man Singh (SMS) Medical College, Jaipur, has started convalescent plasma therapy to treat serious coronavirus infected patients after the approval of central government.

The outbreak of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), which originated in Wuhan, China, has become a major concern all over the world. The disease induced by the SARS-CoV-2 is named coronavirus disease 2019 (COVID-19).

Dr Sudhir Bhandari, Senior Professor of Medicine, Principal and Controller of SMS Medical College is heading the team which is conducting the COVID-19 plasma transfusion. Other members of the team include Indian Council of Medical Research's clinical trial investigators Dr Raman Sharma, Dr Sunita Bundas and Dr Ajeet Singh Shaktawat.

Convalescent plasma therapy aims at transfusing plasma (a component of blood) containing antibodies donated by a recovered COVID-19 patient to a serious coronavirus patient harbouring active infection. "Moreover, several studies have shown a shorter hospital stay and lower mortality in patients who were treated with convalescent plasma than those who were not treated with the same," says Dr Bhandari.

According to doctors at the hospital, three successful convales-



Dr. Sudhir Bhandari, Senior Professor of Medicine and Principal & Controller, SMS Medical College, Jaipur

THREE PATIENTS WHO ARE BEING TREATED BY THE THERAPY ARE SHOWING IMPROVEMENT IN THEIR CLINICAL STATE. ALL THIS IS BEING DONE AS PER PROTOCOL OF ICMR

— Dr Sudhir Bhandari

cent plasma therapies have been conducted. "All three patients who are being treated by convalescent plasma therapy are showing improvement in their clinical state. All this is being done as per protocol of ICMR and with the permission of Drug Controller General of India", says Dr Bhandari. He adds, "Convalescent plas-

ma have been used as an adjunct therapy to improve the survival rate of patients with SARS or COVID-19 whose condition continues to deteriorate despite treatment. Hopefully, this treatment has come as a ray of hope for us. It is passive immunisation, unlike a vaccine with active immunity".



Hindustan Times

FIRST VOICE. LAST WORD.

Hindustan Times

{ **DR SUDHIR BHANDARI** } PRINCIPAL, SMS MEDICAL COLLEGE AND HOSPITAL

'There's been misconception... both the vaccines are safe'

While the Covid-19 vaccination drive is in progress in Rajasthan, Dr Sudhir Bhandari, the principal and controller of SMS Medical College and Hospital and a member of the state advisory board for Covid-19, talks to Jaykishan Sharma about various issues facing the drive including safety concerns. Excerpts:

Are the vaccines safe? Some questions are being raised on the third phase trials of the vaccines?

There has been a lot of confusion about Covaxin and Covishield. Both are equally safe and have 90% to 95% efficacy. There has been some misconception about early launch of Covaxin. I would like to strongly tell you that launching vaccine in the third phase of trial is as good as completion of the trial because we have to protect lives rather than wait and watch.

What are the side effects of the vaccine?

Fortunately, the adverse reaction rate (of Covid vaccines) is only 0.8%, which is (in the form of) mild fever, body ache etc. But always remember, there is a difference between adverse effect and side effect. Adverse effect confirms that vaccine has its effect and body has started reacting to it. So, people should trust it (the vaccine) blindly. Vaccine will reduce the complications, symptoms of disease and prevent from hospitalisation. It is disease-preventive. Vaccine will not prevent the



Dr Sudhir Bhandari in his office.

HT PHOTO

recurrence of infection. Even after the vaccination, everybody has to follow Covid protocols.

Once a hot spot of Covid cases, the numbers of positive cases are constantly declining in Jaipur and Rajasthan?

Rajasthan's model of management has been appreciated across the world including United Nations. We followed strict protocols. Like any best centre in the world, investigations of Covid-19 patients included HRCT chest, CT pulmonary angiography, ultrasonography of lung and echo with Doppler state. SMS Hospital is geared up with most advanced investigation facilities like assessment of cytokine storm. All critical patients were also assessed for clotting disorder by D-dimer and many other tests. Because of these advanced investigations of Covid-19 patients, the management of these patients was very scien-

tific. Our hospital is pioneer in giving Covid plasma therapy and monoclonal antibodies to the critically ill patients with very good results. We were the first hospital to use hydroxy-chloroquine (HCQ) and anti-HIV drugs Lopinavir and Ritonavir in first few patients of Covid-19 with very good outcome.

How is Rajasthan's management is different from others?

On investigation front, in first week of March initial samples of Covid-19 were sent to Pune and today SMS has acquired capacity of doing 6,000 tests per day in-house. It is a sense of pride that as on today SMS Medical College has done more than 6 lakh RT-PCR tests and soon in next two weeks with arrival of new equipment, our capacity is going to be 10,000 per day. Today, SMS Medical College has 1,700 beds dedicated to Covid-19 management.

पूरे देश में 34.82 लाख और राजस्थान में 3.79 लाख जांचें हो चुकी हैं; जयपुर में एसएमएस की टीम ने एक लाख से अधिक जांचें की हैं....थैंक्स वॉरियर्स



जयपुर। एसएमएस में शुक्रवार को एक लाख आरटीपीसीआर टेस्ट पूरे हो गए। प्रदेश का पहला मेडिकल कॉलेज है जहां इतनी अधिक टेस्ट हुए हैं। चिकित्सा मंत्री रघु शर्मा ने एसएमएस सहित माइक्रोबायोलॉजी के डॉक्टर्स, सभी लैब टेक्नीशियन और पूरी टीम को बधाई दी है। डॉ. सुधीर भंडारी, डॉ. नित्या व्यास, डॉ. राकेश माहेश्वरी, डॉ. भारती मल्होत्रा, डॉ. रजनी शर्मा, डॉ. अरुणा व्यास और पूरी टीम की मेहनत से यह आंकड़ा पार किया है।

एसएमएस अस्पताल पर गर्व : 24 घंटे मरीजों को ठीक करने में जुटी रही टीम

चिकित्सकों के जज्बे से हारा कोरोना

पत्रिका न्यूज नेटवर्क
patrika.com

जयपुर, दुनिया में कोरोना वायरस ने सनसनी फैला रखी है। जहां चारों ओर डर का माहौल है, वहीं सवाई मानसिंह अस्पताल के चिकित्सकों ने कोरोना पॉजिटिव मरीजों को इतनी जल्दी ठीक करके एक बार फिर देश में प्रदेश का नाम रोशन कर दिया। एक के बाद एक कोरोना पॉजिटिव मरीजों के अस्पताल के आइसोलेशन वार्ड में भर्ती होने पर शहर में चिंता बढ़ गई थी, लेकिन एसएमएस के चिकित्सकों ने इस बीमारी से मरीजों को ठीक करने का चैलेंज लिया। 24 घंटे चिकित्सकों की टीम मरीजों का इलाज करने में जुट गई। नतीजा सफल रहा। चिकित्सकों के जज्बे ने कोरोना को हराकर जीत हासिल की।

चिकित्सा विभाग के अतिरिक्त मुख्य सचिव रोहित कुमार सिंह ने जहां फल-फल मरीजों के स्वास्थ्य की जानकारी ली वहीं चिकित्सकों की टीम घर की चिंता छोड़ इस मिशन को पूरा करने में लगी रही। रोहित कुमार सिंह ने बताया कि पूरा यकीन था हमारी टीम फेल नहीं होगी। यह टीम वर्क का ही नतीजा है कि हमने सफलता पाई। जिन दवाओं को इस्तेमाल किया गया उनका जिफ्ट इंडियन काउंसिल ऑफ मेडिकल रिसर्च में कोरोना वायरस के उपयोग के लिए था। वायरस में एचआइवी के इंसर्ट हैं।

चिकित्सकों का कहना था कि सबसे बड़ी चुनौती इटली दम्पती को ठीक करने की थी, क्योंकि यह हमारे शहर के मेहमान हैं। मेहमान को ठीक कर वापस अपने देश भेजने को टास्क के रूप में लिया। कोरोना पॉजिटिव मरीजों को ठीक करने के लिए डॉक्टर, रेजिडेंट, नर्सिंग स्टाफ लगातार आइसोलेशन वार्ड में झुंटी पर रहे। अस्पताल अधीक्षक डॉ.



यकीन था हम ठीक कर देंगे

डॉ. प्रकाश केसवानी ने बताया कि कोरोना का खौफ तो था, लेकिन किसी भी तरह से हार नहीं माननी थी। यकीन था, एचआइवी, मलेरिया और स्वाइन फ्लू की दवाओं से मरीजों को ठीक कर देंगे। लगातार दवाइयां देकर निगरानी रखी गई। समय-समय पर सैम्पल की जांच की गई। आखिरकार सफलता हासिल कर ली। एक चिकित्सक ने बताया कि जिस दिन कोरोना पॉजिटिव इटली निवासी से मिला उस दिन घर पर सभी सदस्यों से दूर रहा। अलग बैठकर खाना खाया। परिवार के लोग भी चिंतित थे। कहीं कुछ हो न जाए।

डी.एस. मीणा ने बताया कि इस बीच मरीजों की काउंसिलिंग भी की गई। उनका मनोबल बढ़ाया गया। जिसका फायदा यह हुआ कि इटली दम्पती और आदर्श नगर निवासी 85 वर्षीय बुजुर्ग ठीक हो गए।

कोरोना को हराने वाली हमारी टीम

डॉ. प्रकाश केसवानी- इलाज करने वाली टीम के मुखिया।

डॉ. सुशील भाटी- ऑक्सीजन और वेंटीलेशन लेवल को मॉनिटर करना

डॉ. रमन शर्मा- इलाज को फाइनेल करने में सहयोग

डॉ. एस. बनर्जी- आरयुएचएस, आइसोलेशन वार्ड में झुंटी लगाना

ये भी हैं टीम में शामिल

डॉ. रामबाबू शर्मा, डॉ. अश्वना शर्मा, डॉ. श्रीकांत शर्मा, डॉ. विष्णु गुप्ता, डॉ. परमानंद, डॉ. निखिता शर्मा, डॉ. महेन्द्र, डॉ. पुष्पेन्द्र, डॉ. हरीश जाकर, डॉ. उमारांकर कुमावत, डॉ. दिलीपराज के अलावा नर्सिंग स्टाफ संदीप मीणा और अरमान किरोरिया।

डॉ. पी.एस. पीपलीवाल, डॉ. भरत शर्मा- इनकी युनिट में टीम ने मरीजों पर दिया ध्यान

डॉ. अजीत सिंह- एम्बेसी में समय-समय पर संचालन करना

डॉ. भारती मल्होत्रा- लैब स्टाफ को किया प्रशिक्षित।

400 से ज्यादा सैम्पल टेस्ट किए

बायोसेफ्टी लेवल लेब-3 के डॉक्टर जिन्होंने लगातार सैम्पल टेस्ट किए। इस टीम में डॉ. हिमांशु, डॉ. माधवी, डॉ. नेहा, डॉ. अंजना, डॉ. पारस, डॉ. संदीप, डॉ. दिनेश, डॉ. पारुल, डॉ. बरुणिका, डॉ. सुरभि, डॉ. वीणा, डॉ. ललित शामिल थे।

चिकित्सकों के परिजन भी थे चिन्तित

मेडिसिन विभाग के सीनियर प्रोफेसर प्रेम शंकर पीपलीवाल ने बताया कि इस बात का ध्यान रखा गया कि यह संक्रमण दूसरों के न

फैले। घर पर भी एंटीसैपेंट बरती। घर से अस्पताल के लिए निकलता तो बच्चे बोलते पापा संपल कर रहना।

पॉजिटिव युवक की तबीयत में सुधार

जयपुर @ पत्रिका, सवाई मानसिंह अस्पताल के आइसोलेशन वार्ड में भर्ती वैशाली नगर निवासी युवक की तबीयत में सुधार है। इलाज कर रहे चिकित्सकों का कहना है कि कोरोना पॉजिटिव युवक स्वस्थ है। युवक की रोग प्रतिरोधक क्षमता अच्छी है इसलिए जल्दी ठीक होने की संभावना है। उन्होंने बताया कि युवक के मंगलवार और बुधवार को दो जांच करवाई जाएगी।

मरीज की दोनों रिपोर्ट नेगेटिव आई तो उसे डिस्चार्ज कर दिया जाएगा। सोमवार को चिकित्सक विभाग के अतिरिक्त मुख्य सचिव रोहित कुमार सिंह एसएमएस अस्पताल पहुंचे। उन्होंने चिकित्सकों की बैठक लेकर अस्पताल का दौरा किया। बैठक में निर्णय लिया गया कि इटली के पुरुष मरीज और 85 वर्षीय आदर्श नगर निवासी मरीज को एसएमएस की इमरजेंसी आइसोपू में शिफ्ट किया जाएगा। आइसोपू को आइसोलेट किया गया है। इटली के पुरुष मरीज को लॉस में समस्या है और 85 वर्षीय आदर्श नगर निवासी मरीज डायलिटिक हैं और किडनी में परेशानी है। अब इनका इलाज शुरू किया जाएगा।

राज्यपाल ने चिकित्सकों को वी बधाई: राज्यपाल कलराज मिश्र ने कोरोना संक्रमित तीन पीड़ितों के सेहतमंद होने पर चिकित्सकों को बधाई दी और कामयाबी की सराहना की है। मिश्र ने कहा कि चिकित्सकों ने टीम भावना व समर्पित भाव से कोरोना प्रभावित रोगियों को सावधानी बरतते हुए इलाज किया। चिकित्सकों के समर्पण भाव से प्रदेशवासियों और अन्य चिकित्सकों को प्रेरणा मिलेगी।

डेल्टा वैरिएंट पर अधिक शोध की जरूरत

जयपुर. डेल्टा वैरिएंट को म्यूकोरमाइकोसिस (ब्लैक फंगस) की मौतों का कारण मानने के लिए अभी और अधिक शोध की आवश्यकता है। एक मार्च से पहले दुनिया भर में कोरोना वायरस के कारण म्यूकोरमाइकोसिस के सिर्फ 41 मामले दर्ज किए गए हैं, लेकिन पिछले एक सप्ताह में नेपाल, बांग्लादेश सहित भारत के पड़ोसी देशों में अचानक ऐसे मामले सामने आए हैं।





MEDICAL BUZZ



हेल्थ केयर में तेजी से बढ़ता समाचार-पत्र

RNI No. RAJBI/201773666

केन्द्रीय, 15 मार्च, 2021

श्रेष्ठ : 08

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मूल्य 400/- (चौदस रुपये)

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The Odyssey of S.M.S. Medical College and Attached Hospitals, Jaipur through Covid-19 Pandemic.

**S.M.S. Medical College and Attached Hospitals, Jaipur:
The Epitome of a Medical College Teaching Hospital.**



**Dr. Sudhir
Bhandari**

**Principal &
Controller SMS Medical
College & Hospital,
Jaipur**

Take-Home Message

On introspection and reminiscing through the timeline of COVID-19 in the State of Rajasthan from the month of February 2020 as of this date, the bottom-line thumb-rule for containing the pandemic has been appreciated through experience as strict adherence to COVID-19 protocol of masking, sanitisation, and social distancing with concomitant aggressive vaccination drive of both Covishield and Covaxin, indigenously designed and developed by India that would further the herd immunity of the State and Nation to over and above the miraculous figure of 50%. Such unwavering and dedicated measures would in essence keep in check the ominous possibility of emergence of novel and probable deadly strains of COVID-19 bringing a probable end to the pandemic. The State of Rajasthan and the Great Nation of India need to be proud of the tireless, committed and directed efforts of Professor (Dr.) Sudhir Bhandari, who incidentally happened to be at the helm of affairs as Principal and Controller of S.M.S. Medical College and Attached Hospitals, Jaipur during such a grave emergency when the very survival of humankind was at stake and spearheading and etching the State's relentless drive against containment and possible eradication of COVID-19, that incidentally would be the yardstick for others to follow across the Nation and Globe!

The COVID-19 (Coronavirus Disease, 2019) Pandemic appeared on the horizon of State of Rajasthan in last week of February, 2020 and the dedicated team of S.M.S. Medical College and Attached Hospitals, Jaipur holding the beacon of light and hope under visionary and dynamic leadership of Professor (Dr.) Sudhir Bhandari, Principal and Controller, who took the onerous responsibility of the torch-bearer in planning and laying out strategies for prevention, containment and management of COVID-19 pandemic caused by the novel virus, SARS-CoV-2 (Severe Acute Respiratory Syndrome Coronavirus-2) on a war footing leaving no stones

S.M.S. Medical College and Attached Hospitals, Jaipur lived up to its expectation of being the epitome of a Medical College Teaching Hospital planning strategies and laying down of standards for the whole of State of Rajasthan to emulate. The chance happening of a distinguished clinician in the name of Professor (Dr.) Sudhir Bhandari, who incidentally was also an able and apt team-player administrator at the helm of affairs of the Institute as Principal and Controller etched the right path of restricting the quanta and menace of such a pandemic. The piercing insight and vigil could appreciate the dictates of containing and managing the ghastly pandemic through a multi-pronged

approach of containing the numbers of new cases to an exemplary bare minima, not overwhelming State Health Care System in the process, early diagnosis, minimising false negatives, immediate isolation with prompt, aggressive and hawkish management protocol, bringing the State of Rajasthan to a phenomenal recovery ratio of 98.4 % after about 11 months of sustained and perseverant combat against the menace of the pandemic (as on 1st February 2021). The Medical Community globe have acknowledged such a peremptory dogmatic and sustained aggressive measures with awe and admiration that incidentally became the globe-trotting trend-setter for other to follow.

The persistent and perseverant efforts backed by piercing scientific insight through measures of early initiation of prevention through State-wide lockdown (setting an example for other States to follow), receptor blockade through prophylactic administration of hydroxychloroquine (HCQ) of Health-Workers and early in course administration of available anti-virals along with institution of convalescent plasma therapy with able and timely support from Rotary International contained the pandemic in the State of Rajasthan giving rise to a phenomenally low numbers of new cases on a daily basis, (less than 0.7% active ratio), that acted as benchmark for other States to follow.

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MEDICAL BUZZ

मेडिकल के क्षेत्र में तेजी से बढ़ता समाचार पत्र

मानव कल्याण के लिए अधिक से अधिक रुझान
लगाने और बुद्धिमान संरक्षण करने, तभी मानव
जाति का विकास संभव है।





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Hindustan Times

Stage set, Covid vaccination drive to commence today

All preparations have been completed, says health minister

HT Correspondent

htraj@htlive.com

JAIPUR: Health minister Raghu Sharma said on Friday that all preparations related to Covid-19 vaccination have been completed in the state.

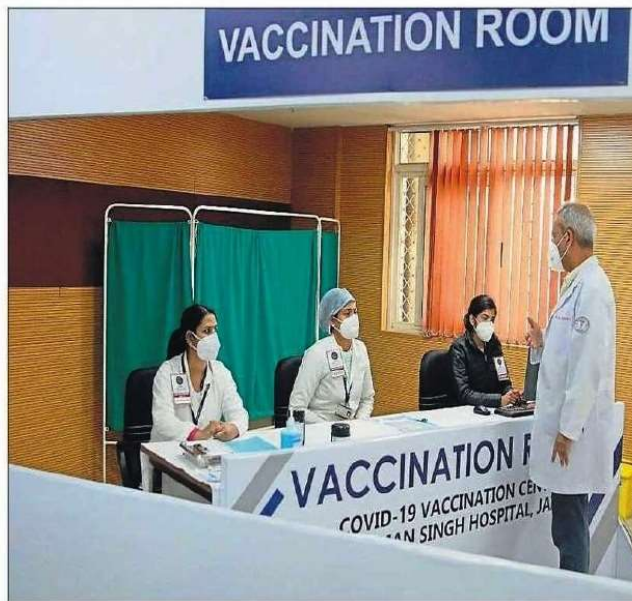
"The vaccines have reached all 33 districts and will be administered from Saturday in 161 vaccination centres," he said.

The state has received over 563,000 vaccine doses of two companies; 443,000 of Covishield and 20,000 of Covaxin have been kept at the state vaccine store in Jaipur, and 105,000 at the vaccine store in Udaipur.

The CM will launch the vaccination programme at noon from his residence.

He said vaccine distribution started from Friday and vaccine vans, two drivers and deputy chief medical officer, health officer, and policemen were called from all districts for distribution.

"The first dose of 0.5 ml will be given to the beneficiary. The second dose of 0.5 ml of the same company will be given after 28 days of the first dose."



Doctors participate in the preparations at the Covid-19 vaccination room on a designated fifth floor of SMS Hospital in Jaipur on Friday. HIMANSHU VYAS/ HT PHOTO

Sharma said. He added that two sites will be there for interactive sessions for vaccination – SMS Hospital, Jaipur and JLN Medical College Hospital, Aimer.

"To ensure that other services aren't affected due to vaccinations, only 4 days a week will

be there for vaccination. There will be no vaccination on Thursday, Sunday, and state holidays," the minister said. "Vaccination will be done at the 161 session venues by January 31."

He said the vaccine will be stored at temperatures

between 2 to 8 degrees Celsius. There are three state-level, seven division level and 34 district level Covid vaccine stores in the state. "At the same time, 2444 cold chain points are also functional at community and primary health centres. A vaccine van has also been provided

to each district."

Sharma said the data about more than 600,000 beneficiaries from the state has been uploaded in the CoWin software for Covid-19 vaccination by January 14. The beneficiaries includes health workers of state, private and central institutions. "4,87,381 are beneficiaries of government and private institutions of the state, while 6758 are beneficiaries of central ministries."

Sharma said data of 1,01,761 front-line workers has also been uploaded. In the first phase, 3345 government medical institutions and 2969 private sector institutions have been identified for vaccination.

SMS principal to be vaccinated first

Principal, SMS Medical College, Dr Sudheer Bhandari will be the first person in Rajasthan to be vaccinated with Covishield on Saturday.

Bhandari said, "Rajasthan is a pioneer in Covid19 management. We have always been first, be it use of hydroxychloroquine, then use of tocilizumab drug; or Remdesivir drug, which was contradicted by WHO," he said.

I have no inhibition in taking the vaccine as it is scientific and like any other flu shot. I am very comfortable," Bhandari said.

The Indian EXPRESS

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'Italian couple who got anti-HIV drugs test COVID-negative'

Earlier, Union Health Minister Dr Harsh Vardhan told The Indian Express that India had, for the first time, used the Lopinavir/ Ritonavir combination in the treatment of the two Italian patients. State health officials said on Sunday that the antiviral drugs were administered to the 85-year-old also.

The decision was taken after their conditions took a turn for the worse, and also keeping in mind the higher mortality risks associated with older people, said officials. Due procedure was followed, including obtaining the consent of patients.

The Indian Council of Medical Research (ICMR) had earlier obtained permission for "restricted use" of the drug combination in the event of a COVID-related "public health emergency" in the country. China is also conducting a 199-subject trial on the efficacy of the drugs.

Senior ICMR officials cautioned that the results in Rajasthan cannot be interpreted as proof of efficacy of the drugs. "We will wait for the results of the larger trial in China," said Dr R R Gangakhedhar, head of epidemiology and communicable diseases.

While 10 others have recovered and been discharged from hospitals across the country so far, none of them were administered the antiviral drugs.

The Italian man had tested positive on March 3 while his wife tested positive the next day. They were both quarantined at the Infectious Diseases Hospital, under the government-run Sawai Man Singh (SMS) Hospital here. "I want to salute my colleagues, physicians, anesthetists, paramedics, resident and nursing staff who have been an integral part of this achievement," said

SMS Hospital principal Sudhir Bhandari.

"Happy to share, 3 corona patients including 2 senior citizens with comorbid issues at SMS hospital, have been treated successfully and their test reports are now negative. My heartiest compliments to SMS doctors and staff for their commendable and dedicated service in treating corona patients," tweeted Chief Minister Ashok Gehlot.

With this, Rajasthan now has only one COVID-positive patient — a 24-year-old with travel history to Spain.