

Short Communication

Children Vaccinations

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Israel is already in a closing mood, in the U.S. more than two million people a day are being vaccinated, in the U.K. almost half of the population has received the shot - but in the E.U. the epidemic is in full swing. Through the torment that the continent went through for a year, to get to the same place. The sights that came from Italy a year ago sowed panic around the world. Hospitals collapsed from the load, makeshift cemeteries were dug up, and other countries watched from the sidelines - fearing the deadly virus would reach them as well. The Italians cried out for help but felt promiscuous and betraved after the rest of the E.U. member states closed their gates, preferring to keep their medical equipment to themselves.

Will the sky open on Saturday? "Entry of a vaccine-resistant variant - a matter of time"

"And what can be done to prevent the outbreak of dangerous variants in Israel even when Ben Gurion Airport is open?" "The Israeli police had a year to prepare for this and now they have to set it as a target, like any other police task - now the task of enforcing the isolations must also be addressed."

The Corona projector, Prof. Nachman Ash, referred to the High Court ruling and said that "the decision that was made is a cause for concern, because it will allow many diseases and dangerous variants to enter Israel. We have taken many precaucious measures to prevent this and it is a pity that we are now putting the encouraging morbidity data at risk. The High Court decision may bring the State of Israel closer to a wave of high morbidity right now. "

Dr. Nadav Davidovich, chairman of the Association of Public Health Physicians, thinks otherwise: "It is impossible not to trust the public in such an extreme way that leads to sweeping and disproportionate solutions. Combining corona tests immediately upon landing includes isolation if necessary. the right way". Davidovich added to the N12: "By all means, the issue of the electronic bracelet, as long as it is done with consent, is a possible solution. The days when the State of Israel closes its gates to its citizens are over - especially before elections. "Even before the election campaign. We are protesting against the use of

inappropriate language towards High Court judges, even if there is a professional dispute."

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Fatal year: The US CDC will announce soon that U.S. mortality has risen by about 15% in the past year, a result of the corona plague, according to a report on the Politico website. U.S.

These are findings considered to publication in the upcoming weekly report on morbidity and mortality. The CDC will list the mortality rates from the virus among U.S. residents by ethnicity, along with the total number of deaths in each demographic group [1].

International Children's Day publication shaves that 39 percent of Israel's population are children. This central part of the population is not vaccinated yet against the coronavirus, and its morbidity is high. The virus, easily transmitted with attenuated disease symptoms among children. Especially the outbreak in places where children in large groups gathered in an enclosed space.

Therefore, the Ministry of Health dilemmas, aiming at the harnessing of the pandemic. They aim to slow down the return to educational institutions and the need to adhere to masks and social distance. Children can transmit the disease to adults who have been vaccinated even without showing signs of illness. Two forces are at work on the population:

- 1) The partial protection by the vaccine.
- 2) The spread of the disease by the children.

The action of these two factors on Israel's population brings with it the deceptive feeling of a decrease in morbidity. In the meanwhile, we must prepare for the continued appearance and disappearance of the disease. Because the cause of the children, who are not yet vaccinated, incites the outbreaks of the disease repeatedly.

Edelstein on the encouraging morbidity data: "The enemy is still with us, not the time for parties"

In a meeting with the Ynet studio, the Minister of Health sounded optimistic in light of the decrease in the infection rate and the positive rate, but warned: "The virus has not left the country, it is here and waiting for some mistake to make." On the expansion of the entrance gates to Israel, he said: "Not exactly our initiative; it has to do with the arrival of voters ahead of the election." Edelstein on the encouraging morbidity data: "The enemy is still with us, not the time for parties."

The disease in educational institutions: More than one hundred thousand students are in isolation. 500 kindergartens and dozens of schools were closed as a result of the corona rampage. Unvaccinated teachers transmitted the virus. The opart of children in the spread of COVID-19: Use of household data from the town Bnei Brak, Israel, to estimate the sensitivity and relative numbers of children. One of the significant unanswered questions regarding the epidemiology of COVID-19 relates to children's role in transference. This study uses data on household infections to assess the susceptibility and infection of children compared to adults. Data collected from households in the city (Bnei Brak, Israel), in which all household members were tested for COVID-19 by PCR (637 families people in the study [2]. Examination of PCR data shows that children tend to be tested less positive than adults (25% of children are positive in all households, 44% of adults are positive in all households except index cases), and the chance of being infected increases with age. Analysis of PCR / serology data shows that there is an under-identification of PCR infections, which is more significant in children. However, the differences in detection rates are not sufficient to explain the differences in positive PCR rates in the two age groups. We use a discrete stochastic model of the spread of the infection in a household to estimate relative transmission parameters, which allow parameters of different sensitivity and infection between children and adults. The model is adapted to the home data using an approach of simulated maximum probability. To adjust the parameter estimates for the detection of infections in the PCR results, we use a multiple imputation procedure using under-identification assessments in children and adults, based on the available serological data. We estimate that the sensitivity of children (under the age of 20) is 43% (95% CI: [31%, 55%]) of the sensitivity of adults. Infection in children was estimated to be 63% (95% confidence interval: [37%, 88%]) compared to that of adults.

When will COVID vaccines be available for children? [3].

Children were not part of the initial testing in vaccines' rapid approval process because they have a very low probability of people aged 12 to 18 and drop out. According to this, it is likely that the company has a vaccine for those under 18 to September. The outbreak of Coronavir 2019 disease (COVID-19) brought with it fear and uncertainty. Many parents ask when there will be a COVID-19 vaccine and what to do about routine childhood vaccines during the epidemic. We are presenting this report to provide answers to your most frequently asked questions. When will the vaccine for coronary heart disease (COVID-19) be available? Currently [March 6, 2021], there are no child-specific vaccines or COVID-19 treatments. Scientists around the world are working to develop a vaccine against the disease in children. In fact, many vaccines are developed simultaneously, with two of them at the forefront of the process. Innovative vaccine development

approaches have been used, based in part on what is learned from responses to Ebola and SARS.

People are also looking for drugs to slow down how the virus spreads in the body and reduce the severe breathing problems it can cause in ill patients. But even with the fastest methods. The application of drugs in humans for a new disease needs to be tested to ensure safety and efficacy.

Parents also would like to know about safety, side effects and if they will still have to wear masks.

Fat Camera via Getty Images

When can children get the COVID-19 vaccine? [4]. 9 December 2020 06.06 AEDT Updated 19 December 2020 13.02 AEDT

When can my child be vaccinated?

Currently, it seems unlikely that a vaccine will be ready for children before the start of the next school year in August.

Experiments in adults on the two leading vaccines had promising results. The U.S. FDA issued emergency use permits for both in mid-December, but only for use among adults and teens. She approved Modern's vaccine for ages 18 and older on December 18, a week after Pfizer's vaccine for ages 16 and up. Vaccines have already been conducted in the U.K., and Canada has approved the Pfizer vaccine for the same age range.

But clinical trials involving children are just beginning. Working with German Biotech, Pfizer has expanded the COVID-19 vaccine test for children ages 12 and older only in October. Moderna announced on December 10 that it had just begun experimenting with children ages 12-17.

Why children need their own COVID-19 vaccine trials [5, 6]. It also makes sense to target adolescents. First, they are more likely to be infected than their younger peers. In one review of COVID-19 cases, children aged 12 to 17 accounted for 63 percent of cases, while children aged five to 11 accounted for only 37 percent.

As children's immune systems develop over time, evaluating COVID-19 vaccines in younger children will require an entirely new strategy to see if they need formulation or another dose, says Domchowska, supervisor of pediatric experiments at Pfizer-BioNTech at SUNY Upstate University.

"Children are certainly not just little adults," he says. Although children reach levels of immunity as adults up to the age of six, this rate changes from child to child based on their genetics and the environment.

In the Pfizer-Bio-Net trial among children aged five to 11, which can start as early as March, participants will start with a lower ammount than the dose currently given to the adults. A scientist says. "Then, if necessary, we will try the next high dose to see if it is acceptable and to determine whether a vaccine has a safety and efficacy profile similar to adults." Vaccine efficacy and safety should be evaluated for each age group, and testing has not begun for infants, toddlers, or children in the United States.

COVID-19 Vaccination Information for Kids & Teens [2]. Three CORONA vaccines have now been approved for emergency use in the United States by the U.S. Food and Drug Administration (FDA). We follow the Massachusetts Department of Public Health's criteria regarding prioritization guidelines.

Vaccine update for Boston children's patients [7].

Currently in Massachusetts, people 65 and older and people 16 and older with two or more specific medical situation are now eligible to receive the COVID-19 vaccine.

As a reminder, the U.S. Food and Drug Administration has approved an emergency use of the Pfizer vaccine to prevent COVID-19 in people 16 and older, as well as Johnson & Johnson and Moderna for 18-year-olds and older. Today, there is no vaccine approved for children under 16 yet [8].

The practice of vaccinating our eligible people should take a few weeks. You will not need to call the hospital - instead we will contact you by email or phone to schedule an appointment for the vaccine.

While we hope to be a vaccine resource, we urged you to take every opportunity to schedule a vaccination appointment through health organizations and local agencies by visiting mass.gov/vaccine.

Because each state is a little different, we may recommend that families of Boston children outside of Massachusetts get vaccinated in your home state as soon as you are eligible, rather than waiting for your child to receive their vaccination at Boston Childs.

Child Vaccine Against Covid 19 - Measles Rates [9, 10].

Because the first SARS-CoV-2 vaccines roll into the highest risk groups, the current phase of the Covid-19 epidemic is pregnant with a possibility. Even as the number of cases increases and the new restrictions occur, we look longingly in the coming months in the hope that vaccines will provide us. Vaccination can free us back to school or work, holiday celebrations, eating out, traveling, running marathons, and [filling in your gaps]. Announcements about the effectiveness of the vaccine are raising stocks, and suddenly everyone knows about Phase 3 trials and cold-chain logistics. We look at vaccines to bring us back to our world.

Children returning to classrooms, soccer fields, and birthday parties are essential elements in that ordinary world - and we ask children to help us get there. Because nearly a quarter of the U.S. population is under the age of 18 - and the rate is significantly higher in many other countries - effective herd immunity will require vaccination of children.

It is likely that vaccinating children has benefits. Both Direct, (Protecting Children) [11].

Against severe cases of rare children of Covid-19 and postinfection conditions such as multisystem inflammatory syndrome in children [MIS-C]) and indirect (protection of others by reducing spread) 1. These "indirect" benefits also reduce the number of families of diseases parents. Failing economies and chronic stress.

A few days ago, we have heard talks on the possible fourth closure. There was a sharp rise in morbidity following Purim events - but the encouraging morbidity figures that illustrate that the plague is declining, caused the Ministry of Health officials to "change the disk".

In a discussion held by experts in the ministry, including Prof. Ash and Dr. -Price, they decided to move from an intimidation approach to a recommendation on how to behave safely in the existing routine.

Vaccines for children also come, but not SO SOON.

Pfizer and Moderna are testing their ACTI-CORONA VACCINES on children 12 and older and hope to achieve results by the summer.

As adults at high risk for Covid 19 to get vaccinated against the coronavirus, many parents want to know: When will my child be vaccinated?

The short answer is: not until end summer [12].

Pfizer and Moderna have enrolled children 12 and older for clinical trials in vaccines and hope to achieve results by the summer. Depending on the age of the vaccines, the companies may test them on younger children. The Food and Drug Administration usually takes several weeks to examine data from a clinical trial and approve a vaccine.

Three other companies - Johnson & Johnson, Novax, and Astra-Zanka - also plan to test their children's vaccines but are behind.

When researchers first test drugs or vaccines in adults, they usually move up the age ladder, anticipating any change in the effective dose and unexpected side effects.

Children will also need to be vaccinated for the United States to get closer to herd immunity - the same long-promised goal in which the epidemic slows to a halt as people run out of time to catch the virus.

Scientists have estimated that between 70 and 90 percent of the population may need to be vaccinated against the coronary virus to gain herd immunity, especially with more contagious versions expected to roam.

"Not all adults can get the vaccine. This because there is some reluctance, or maybe there are even some vulnerable immune systems that just do not respond," Dr. Arbling said. "I think we should include children if we get herd immunity."

It is also important to vaccinate children in racial and ethnic populations that are hardest hit by the plague, she added.

Strategic Failures

The Israeli government's failure to deal with the Corona crisis is becoming more apparent every day, to the extent of a national default. In March 2021, we at INSS recommended research to learn lessons, not to look for culprits - to learn and be better for the next wave. A state commission of inquiry is now required.

"Afraid of isolation on Seder night": Parents give up "Holiday School."

The students' Passover holiday has begun, and the state-subsidized summer camps will open on Sunday. Decreased enrollment among lower grade students due to parents' fear of morbidity in educational institutions, just before the holiday: "We do not take risks. We have not celebrated with the family for a year."

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