CEO UPDATE <u>30 March 2020 | 30 Poutū-te-rangi</u> 2020



Christchurch Hospital Hagley blessed

Manawa mai ai te putanga o te ariki Manawa mai ai te putanga o te tauira Ka eke ki a Rongo Rupe Ka eke ki a Rangi Tāhuahua Tēnei au te whatu, kei a au kauae tapu Mauri tū!

Canterbury DHB Director of Māori and Pacific Health Hector Matthews and South Island Regional Manager, Interchurch Council for Hospital Chaplaincy, Reverend Sandra Wright-Taylor were on hand early this morning to perform a blessing of Christchurch Hospital Hagley (known as the Acute Services Building during construction).

It was a small but important gathering. While performed under exceptional and unusual circumstances, the occasion

was suitably formal and attended by members of the Executive and the Facilities Development Project team, all of whom took care to ensure proper physical distancing throughout!

The blessing began in the foyer with a karakia from Hector and a prayer from Sandra which included reference to Joy Cowley's psalm *The Bridge*. The full prayer and a video of the ceremony will be available on the <u>Hīkina to Hagley</u> intranet site. The blessing made its way through the Emergency Department and including Emergency Radiology on the Ground Floor, and the Intensive Care unit on Level 1. All rooms and spaces, including those areas used by staff, were recognised. The blessing concluded with a prayer from Sandra, asking that staff be supported by one another and their families, and gave thanks for the hard work that is done daily by every member of our DHB. She also thanked the families of our staff, before Hector led a waiata to complete the occasion.

I'd like to thank all those who are working during the Nationwide Level 4 Alert Lockdown period to get the Intensive Care Unit finished. They have had a special dispensation to continue. Work on the rest of the hospital continues, ready for handover to the DHB.



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Sandra Wright-Taylor leads the blessing through the Emergency Department

Kia hora te marino, kia whakapapa pounamu te moana, kia tere te kārohirohi i mua i tō huarahi. (May peace be widespread, may the sea glisten like greenstone, and may the shimmer of light guide you on your way.)

First death attributed to COVID-19 on the West Coast yesterday

Our hearts are with the family of the West Coast woman who has lost her life to COVID-19. Her death was announced on Sunday by the Director General of Health Dr Ashley Bloomfield at his daily media briefing yesterday. Further information is available here.

I also want to acknowledge the staff who worked to care for this woman on the Coast, and those who provided advice and support from Canterbury. Now that 22 West Coast staff are in isolation for 14 days since their last contact with this patient, I am pleased we have been able to provide support in the form of staff who are heading over to the coast.



The blessing cohort gathers for a final waiata

Daily updates on numbers of confirmed and probable cases and their location

The Ministry of Health website is the single source of truth for reporting COVID-19 cases.

The site is updated daily after the Director General of Health's daily media update, which is usually around 1pm each day. These updates are livestreamed daily by most media outlets and also from the Ministry of Health's webpage: <u>health.govt.nz</u>

The daily link to the livestream is listed under 'news' about an hour before broadcast – it's available for anyone to view. If you miss the livestream, the video is also available on the Ministry website.

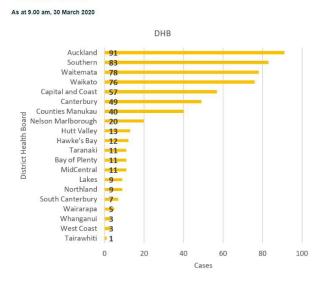
Later each afternoon the number of confirmed and probable cases is updated, as is the map showing their locations, and a table providing details of flights that cases have flown on while they may have been infectious.



The link to the 'current cases' page is here.

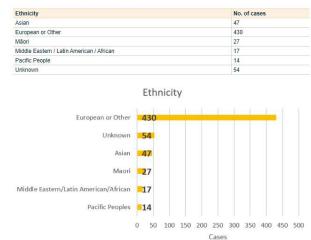
*Note there is always a lag between actual case numbers and those reported each day, as the cut off time for reporting is early each morning.

Total cases by DHB





Total cases by DHB, as at 9.00 am, 30 March 2020



Ethnicity numbers of all cases as at 9.00 am, 30 March 2020

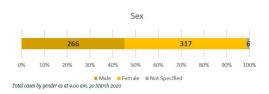
Age group (years)

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otal cases by age as at 9.00 am, 30 March 2020



Other sources for credible and up-to-date information

There is a lot of information out there at the moment, so here's a quick overview of the best sites to look at:

- <u>moh.govt.nz</u> Ministry of Health website for the latest national updates, information and advice on COVID-19, including current cases.
- > covid19.govt.nz All of Government site information and advice on what people need to do under the current alert level, as well as what help is available. It's a great source of information, including FAQs, posters and other resources, including the recently published guidance for who needs to wear personal protective equipment (PPE).
- > cdhb.health.nz/covid-19 Canterbury DHB public website the latest regional information
- PRISM COVID-19 site Canterbury DHB intranet information and advice for staff and managers, plus useful resources.

Total cases by ethnicity

Total cases by age and gender

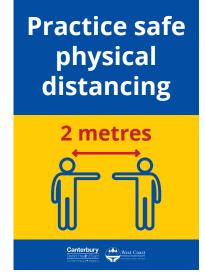
Ensuring information about services is up-to-date on our public-facing website

The Canterbury DHB website <u>www.cdhb.health.nz</u> is the single source of truth for information on service changes. With things changing so rapidly, it is more important than ever to ensure the information on our website is current. Please check the information about your service and send any changes to Canterbury DHB Webmaster Matthew Elliott on <u>matthew.elliott@cdhb.health.nz</u> and he will update it.

How are you doing?

These are extraordinary times with a fast pace of change. We are all adjusting to a new normal that is also under a constant state of flux, and I want to commend all of you for the work you're doing to keep our patients and each other safe. Remember to look after yourself and each other, and to reach out if you need support. Maintaining your normal routines as much as possible, eating well, exercising and getting a good night's sleep are some of the key foundations for coping during stressful times. I would add that maintaining strong connections with your whanau, friends and colleagues is also more important than ever right now. We are lucky to live in a time when technology makes this relatively easy, so please take the time to text, call, video message and





The posters above are available to download and print via the PRISM COVID-19 site

generally stay in touch with your loved ones. You can also find some useful tips in this <u>information sheet</u> for managing uncertainty and anxiety around COVID-19, including the various supports available to all staff.

Haere ora, haere pai Go with wellness, go with care

David Meates CEO Canterbury District Health Board

If you have a story idea or want to provide feedback on *CEO Update* we would love to hear from you! Please email us at <u>communications@cdhb.health.nz</u>. Please note the deadline for story submissions is midday Thursday.

If you're not a staff member and you want to subscribe to receive this newsletter every week please subscribe here.

regulars – kōrero ai

30 March 2020



Bouquets

Christchurch Hospital

Thank you so much for making my boy's surgery important today. We personally appreciate this on a massive level knowing circumstances are so difficult right now. Thank you from the bottom of our hearts.

Ward 25, Christchurch Hospital

All the staff on Ward 25 are caring, compassionate, wonderful people, going beyond the call of duty to help those in need. It is very much appreciated by friends and family. Thanks to Emma, Jo and Jackie.

Wards 17 and 15, Christchurch Hospital

My son came in with an infected appendix. The operation to remove that and part of his intestine was great. Surgical team outstanding. He has autism, so we speak for him. At all times we were treated with dignity and respect, from the doctors, nurses, aides and cleaning staff. Having me stay overnight with him was totally fine and everyone could not have been more helpful and caring, making sure his diet limitations were catered for. Thank you so much for making a stressful time easy.

Nuclear Medicine, Christchurch Hospital

Excellent, friendly, efficient help from all. Thanks.

Ward 23, Christchurch Hospital and Burwood Hospital

This was my third visit this year. I wish to say my experience at Christchurch and Burwood hospitals has given me confidence in the Canterbury DHB and staff. Everyone has been helpful and kind.

Anita, Ward 23, Christchurch Hospital

I have been very surprised at the care and kindness I have received from nurse Anita. It's been a great experience with all the staff.

Ward 23, Christchurch Hospital

I was well looked after by nurses, doctors and hospital staff.

Breast Care Clinic, Christchurch Hospital

Great service, friendly, very professional. Flexible with appointments and accessible. Thank you.

Ward 11, Christchurch Hospital

A huge thank you to Sam Grieg and the team for being so wonderful with my daughter during her operation and stay on Ward 11. Without exception all staff were very friendly, helpful and made a stressed mum of a daughter with sleep apnoea feel like my daughter was in safe hands. The staff who brought food and drinks were lovely and amazing as well. Can't thank you enough.

Emergency Department, Christchurch Hospital.

Dr Scott Pearson and Nurse Dan were kind, efficient, caring and amazing. Super appreciative.

Wards 15 and 16, Christchurch Hospital

Spectacular treatment. I would love to mention particular people but fear I will omit someone special. Please read this note of grateful thanks to those who looked after me so well.



The Medication Safety Committee

This week we introduce Chair of the Medication Safety Committee (MSC) Heather Isenman.

MSC is responsible for ensuring the safe, appropriate use of medications within Canterbury DHB, in line with a national directive on medication safety from the Health Quality and Safety Commission.

Most of MSC's work relates to education and communication between key areas, with a focus on 'high-risk' medicines that are often involved in patient events, such as insulins and opioids. It also runs several initiatives aimed at improving handling, prescribing and dispensing of medication.

The committee has regular items to review during the monthly meetings, including DHB-reported safety events to identify trends and areas for improvement.

Members seated, from left:

Nurse Coordinator Clinical Risk Department of Nursing Vickie Attewell, Community Pharmacist Primary Care Deborah Hart, Chair and Senior Medical Officer (SMO) General Medicine Heather Isenman, and Quality Manager Medical and Surgical Division Shona McMillan Members standing, from left

Nurse Educator Professional Development Unit Raylene Shaw, Registrar Clinical Pharmacology Millie Wang, Pharmacist Geoff Stark, Neonatal Specialist (Medical Education and Training Unit) Maggie Meeks, and SMO General Medicine and Clinical Pharmacology Matt Doogue Absent: Senior Pharmacist Hillmorton Hospital Andrew McKean, Charge Nurse Manager, Children's Acute Assessment Ward Warren Nairn, SMO General Medicine Chris Warren, and Medication Safety Pharmacist Mary Young

Depending on the nature of MSC's recommendations and scope of

change, items are fed back to relevant departments, or to the Medicine and Therapeutics Committee, which oversees MSC.

Occasionally, recommendations may result in DHB-wide changes – an example of this is the shift from paper to electronic prescribing in many areas, and the upcoming shift to the use of the National Medication Chart for paper prescribing in certain areas within Canterbury DHB.

The flow-on effects of medication safety include reduced complications from medicine interactions and side effects, which may mean people need shorter treatment durations, and an improved and possibly shorter stay in hospital. "I see this committee as having a valuable role in promoting safe patient care, and I enjoy the opportunity to interact with multiple departments to promote change and improve patient outcomes.

"There is always something new and unexpected to deal with alongside our regular projects which keeps us on our toes, and one of the most interesting aspects of the role is trying to change processes around human behaviour," Heather says.

If you have any questions on MSC's work, email medicines@cdhb.health.nz.

Quality and Safety Matters

Hand hygiene advice for patients and staff

Help contain COVID-19 by following good hand hygiene practice and keep patients and staff safe.

For patients

It is essential that we enable our patients to self-manage by ensuring they have access to:

- alcohol-based hand rub (ABHR) within arm's reach of the bed space; or
- > soap and water and disposable hand towels.

When to clean your hands poster (can be printed).

Patient information leaflet.

For staff

Check that alcohol-based hand rub (ABHR) for staff is both available and easily accessible at every point of care.

For standard operating procedures, please see <u>ABHR Micro</u> <u>shield</u>.

Latest COVID-19 information

Check out PRISM for the most up-to-date information about novel coronavirus COVID-19, including the latest news, resources and advice.

our stories – ā tātou kōrero

30 March 2020

Share your creative endeavours to provide moments of joy during COVID-19 lockdown

Nephrology Pharmacist in Christchurch Hospital's Pharmacy Department, Janelle Kennedy, has been doing some creative thinking.

"I just couldn't sleep one night and it occurred to me, now that we're in lockdown we need to look for other ways to fill the creative gaps that art galleries, exhibitions and art classes previously provided. As evidenced by our staff art exhibitions there is a wealth of artistic talent in Canterbury DHB.

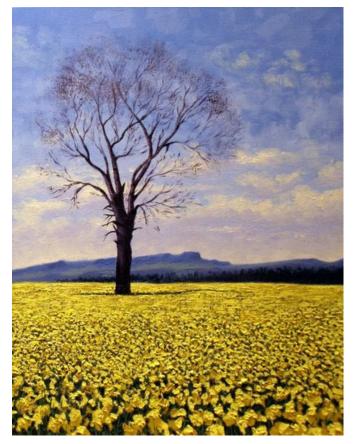
"Many creative people 'fly below the radar' but I wonder if now is an opportunity to encourage staff to share their talents as a way of providing a moment of wonder or a moment of joy for colleagues in our new COVID-19 world.

"We have gifted painters, photographers, sculptors, jewellers and weavers just to name a few."

Janelle is a painter and says she is "definitely low key".

"But I'm willing to put myself out there for the greater good, so to speak. To that end I am sharing a photo of a painting of mine called 'Standing Tall'. Maybe it could be renamed 'Standing Tall in splendid COVID-19 isolation.'"

If you would like to share a photo of your creative work, please email it to <u>naomi.gilling@cdhb.health.nz</u>.



Painting by Pharmacist Janelle Kennedy, called 'Standing Tall'

NEED TO TALK?



free call or text any time



Donning and doffing dos and don'ts video to help staff stay safe

Christchurch Women's Hospital registrars Adelle Hanna and Mari Fernandez have come up with a catchy song to help remember the order of putting on and taking off personal protective equipment (PPE).

Mari says they came up with the song as there are a lot of steps to putting on (donning) and taking off (doffing) PPE correctly.

"One of the factors identified to healthcare workers contracting the virus is missing one of these steps due to fatigue, so we thought if everyone could just get this song in their head, then they would just turn into auto-pilot even when they're tired, and everyone can stay alive."

Adelle says they made the song on their night shift to help people remember the order of PPE, in keeping with the PPE donning and doffing videos that have been sent out to them.

"I challenge departments to show us up and make their own version."



Self-titled "enthusiastic PPE champions" Adelle and Mari say they are still able to laugh during this difficult time – and they hope the video will go viral so wants lots of 'likes'.

You can watch the video, which has had more than 2,000 views so far, on <u>YouTube here</u>.

Cleaning stations help with practicing good hygiene at work

Around our facilities our people are stepping up with extra precautions to help keep each other safe at this time.

Service Manager Janice Lavelle says the second, third and fourth floors of the Heathcote Building, at The Princess Margaret Hospital, is home to the six Older Persons' Health and Rehabilitation (OPH&R) community teams and normally 130 staff.

Two areas have been set up on each wing of each floor with products to clean desks, technology and doorknobs.

"To encourage frequent use and keeping each other safe, these 'cleaning stations' are situated in places that are of easy access," she says.

Clinical Manager North/East Community Service, The Princess Margaret Hospital, Kaylene Scott took the lead for the teams in ensuring staff keep their work area clean and practice good hygiene.

"Staff were keen to engage in infection control to keep ourselves, our teams and the wider Older Persons' Health Team ready and available in these unprecedented times," she says.



One of the 'cleaning stations' set up in the Heathcote Building at The Princess Margaret Hospital



Incubators gratefully received by Australian wildlife carers

Volunteers at a wildlife centre in Australia are feeling "overwhelmed and emotional" after receiving the gift of two incubators, a donation organised by Canterbury DHB Universal Newborn Hearing Screening Co-Ordinator Angela Deken to help bushfire-injured wildlife.

"We just received the incubators and we can't thank you enough. They are amazing. Right now, we are a little overwhelmed and emotional by your generosity and kindness with this amazing gift. Thank you just doesn't seem to be enough," says Jamie Illistom, from Wollondilly Wildlife in New South Wales (licenced by the Sydney Metropolitan Wildlife Service).

"It may sound clichéd, but you have given us the gift of life. All our volunteers are self-funded, we pay for food and enclosures ourselves and rehabilitate the animals from our own small property.

"We are blessed to have some local vets who provide a lot of treatment for free. But a gift of an incubator is something we previously could only dream of. We can now honestly say that with the help of Angela, Christchurch and St George's hospitals and Air New Zealand, dreams really can come true.

"Now not only are we able to provide a warm and safe environment which promotes healing and allows these frightened little animals to feel secure, but we now can provide first-rate care to our pinkies – these babies currently rarely survive on their own as their mum's pouch is their incubator, something that until now we have been unable to provide," he says.

The incubators have been put into use straight away with one of the burn victims, Kent, a brushtail possum who has burnt feet and a burnt tail.

"Kent is pretty happy with his new digs and his new temperature-controlled room will make sure his healing moves on as fast as possible."

During the catastrophic fires in New South Wales, Wollondilly Wildlife members rescued and provided around-the-clock treatment to more than 40 animals in a three-month period. Many members are also volunteer firefighters.

"Again, we can't say thank you enough. This is just amazing," Jamie says.



From left, wildlife carers Jamie and Wendy Illistom with one of the incubators on the day they arrived



Wendy Illistom unpacking one of the incubators

The incubators, from Christchurch Hospital's Neonatal Intensive Care Unit (NICU) and St George's Hospital, were no longer in use as they have been replaced with newer models.

Angela came up with the idea of donating an incubator after seeing heart-wrenching images of burnt koalas, kangaroos and other Australian wildlife. She spent months organising the donation and contacted Air New Zealand's community organiser to arrange transport.

Some IV pumps were also donated to keep the larger animals sedated for longer periods of time for wound dressings and keeping them off their burnt feet so that healing can occur. Small volume bottles, that animals can be fed with were also given.

Angela says she is thrilled the items have arrived and very grateful to Air New Zealand.

"Thanks so much everyone for supporting me on this idea. I am so excited that they got there. These wildlife carers are the heroes and it's the least we can do to try and help them, plus it's great recycling."



Kent, a brushtail possum with burnt feet and a burnt tail makes himself at home in one of the donated incubators





What does your job involve?

My role involves the assessment and management of swallowing and communication disorders. This includes provision of bedside and instrumental swallowing assessments, speech and language assessments, and recommendations and therapy for disorders of swallowing and communication. Close liaison with the person, their family/whānau and the wider interdisciplinary team are also vital.

Why did you choose to work in this field?

I was attracted to the profession by the mixture of science, language and the opportunity to work closely to support people.

What do you like about it?

I love having a people-focused job, working alongside a highly skilled and cohesive speech-language therapy team and being part of an excellent interdisciplinary team. I also enjoy teaching/supervising speech-language therapy students and mentoring junior members of the speechlanguage therapy team.

What are the challenging bits?

We are frequently challenged by a large and complex caseload. I am, however, proud of the way our small team is able to meet these challenges, support each other and keep the goals and welfare of the people we work with as our top priority.

Who inspires you?

I am constantly inspired by my dedicated teammates, both within the speech-language therapy team and the wider interdisciplinary team (lots of admiration for the nurses, hospital aides, medical teams, physiotherapists, occupational therapists, social workers, dieticians, pharmacists, Māori Health staff and ward clerks who work on Ward 24). The people I work with post-stroke also inspire me with their motivation and determination to recover.

What do Canterbury DHB's values (Care and respect for others, Integrity in all we do and Responsibility for outcomes) mean to you in your role?

These values underpin the way the speech-language therapy team at Christchurch Hospital works. I hold these values close and aim to have them at the centre of all of my clinical decision making.



30 March 2020

Sachi Summerlee at the British Columbia Parliament Buildings in Victoria, BC, Canada

Something you won't find on my LinkedIn profile is...

I worked in a bookstore in Victoria, British Columbia for six months – the most productive and inspiring reading time in my life!

If I could be anywhere in the world right now it would be...

On a hike at Lake Rotoiti, followed by a lake swim!

What do you do on a typical Sunday?

A perfect Sunday would start with something active and in the outdoors with my husband Rich, plus a bit of reading.

What's your favourite food?

I love Japanese food and anything spicy!

And your favourite music?

Currently enjoying lots of great female artists like Haim, Nadia Reid and King Princess. Daniel Caesar was also a wonderful discovery while living in Canada in 2018!

If you would like to take part in the column or would like to nominate someone please contact <u>Naomi.Gilling@cdhb.health.nz</u>.

notices – pānui

Grand Round cancelled

The decision has been taken in view of the COVID-19 virus that all Friday Grand Rounds will be cancelled until further notice.

Our staff are of the utmost importance and your health and safety must come first given the importance of your roles.

This decision will be revisited if we feel we are able to resume in a few weeks. Further COVID-19 updates will be provided through other means.

Previous Grand Rounds are available to watch on the intranet here.

Thank you for your patience and understanding as we work through this process.

Stop smoking support still available from Te Hā – Waitaha

STOP SMOKING CANTERBURY

30 March 2020

The stop smoking service, Te Hā – Waitaha is continuing to support people wishing to become smokefree, during level 4 of the COVID-19 response.

Rather than face-to-face contact, support is being delivered either by phone or virtual sessions online with free NRT (patches, gum and lozenges) provided to clients.

Te Hā – Waitaha offers free stop smoking support to anyone in Canterbury.

Specific support is also available to pregnant women or someone living with a pregnant woman.

People can be referred or can refer themselves, by either:

- registering online at <u>stopsmokingcanterbury.org.nz/</u> <u>contact-us;</u>
- > by phoning 0800 425 700; or
- > by emailing smokefree@cdhb.health.nz.

Once people are referred, a Stop Smoking Practitioner will contact them to discuss how they can provide support and tailor a programme that achieves their smokefree goals.

Healthinf

More information here - stopsmokingcanterbury.co.nz.

Always on the go? Take Healthinfo with you

HealthInfo is Canterbury's go-to site for information about your health.



Free-to-air fitness classes thanks to



Les Mills and TVNZ

To encourage kiwis to stay busy and get/stay fit during the lockdown, workout classes are being broadcast free with a new partnership between TVNZ and Les Mills.

The free-to-air workouts, ranging from high-intensity training to stretching and meditation, will begin from today 30 March at 9am and 3pm, and also offers workouts designed specifically for young children and teenagers.

The workouts will also be available on TVNZ OnDemand.

For those of you familiar with the Les Mills schedule, The Group Fitness classes will include BODYBALANCE[™], BODYCOMBAT[™], BODYATTACK[™] and kids' workouts BORN TO MOVE.

Latest Community Health Information Centre newsletter out now

The Community Health Information Centre (CHIC) provides free health resources to any person or organisation in Canterbury, South Canterbury, West Coast and Chatham Islands.

The resources are developed by Community and Public Health staff, and other health agencies.

The <u>latest edition of CHIC's newsletter</u> is out now and highlights new and revised free resources available from your local CHIC office, as well as recently deleted resources.

This month's featured resource is: Wash your hands for 20 seconds (HYG0060)

For more information about CHIC and to order resources online visit the <u>Community and Public Health website</u>.



Protect yourself and others from COVID-19



Wash your hands with soap and water often (for at least 20 seconds). Then dry.



Cough or sneeze into your elbow or by covering your mouth and nose with tissues.



Clean and disinfect frequently touched surfaces and objects, such as doorknobs.



Don't touch your eyes, nose or mouth if your hands are not clean.



Put used tissues in the bin or a bag immediately.



Stay home if you feel unwell.

For updates and more information on keeping yourself safe, visit **Covid19.govt.nz**

New Zealand Government



COVID-19 — *Don't bring it home* Advice for health care workers



Avoid carrying personal items into clinical work places e.g. wallet. Leave bag in staff only area.



Wear home clothes and shoes to work.

Change into work clothes/ uniform and work shoes (as applicable) at work.



Maintain >2m distancing in communal work areas.



Don't eat food in clinical areas. Store food away from clinical work spaces.



Personal phone - keep in own bag in staff only area.

Work phone - clean frequently with an alcohol based wipe. Do not use in patient rooms.



End of day:

Clean shoes with detergent and water.

Place work clothes/uniform in plastic bag to take home.

Wash hands and arms with soap and water or shower if desired – NOTE: don't stop on way home if not showered and changed – shower and change before visiting other essential services.

Change into home clothes and shoes.



When you get home:

recommendations and perform

Leave shoes outside or in a designated area.

Follow approved PPE

hand hygiene frequently.

Place work clothes from plastic bag into washing machine. Wash hands with soap and water and dry thoroughly. Launder and dry clothes as normal.

For the latest information check the Ministry of Health website www.health.govt.nz/COVID-19



Canterbury District Health Board Te Poari Hauora ō Waitaha

Practice safe physical distancing







RSV Immunisation in Pregnancy Study





Overview

- RSV is a respiratory virus that affects most children under 2 in New Zealand and around the world. It can cause upper respiratory tract infections (URTI), bronchiolitis and pneumonia, which can lead to hospitalisation and intensive care.
- This trial aims to test the safety and efficacy of an investigational RSV vaccine given to women during the third trimester of pregnancy, to potentially protect their babies from RSV infections during their first winter. The vaccine enables the woman's immune system to develop antibodies against RSV which are transferred through the placenta to her unborn baby.

Why is this trial important?

- RSV is a health issue in New Zealand and globally and this vaccine may protect both women and babies from developing RSV illness.
- This is a **Phase 2 clinical trial**, which means that the vaccine has undergone previous trials that have gathered safety and immunogenicity data.

Who qualifies?

Women who are:

- Healthy pregnant women aged 18–49 years
- Have an expected delivery date between 8 April to 14 August 2020

How does the trial work?

- Participating women will be randomised into one of two groups:
 - the treatment group: receive the RSV vaccine
 - the control group: receive a placebo
- One intramuscular injection will be administered from 24 weeks to 36 weeks of pregnancy
- Blood will be collected from the mother and her baby during the trial
- Mother and baby will be monitored by the research team until the baby is 12 months of age.

For more information

Di Leishman, Research Midwife, University of Otago, email: di.leishman@otago.ac.nz

Phone 3644 631

Dr Kerry Orlowski, Research Fellow, email: kerry.orlowski@otago.ac.nz



Canterbury District Health Board Te Poari Haucra ö Waitaha