



## NZNO College of Respiratory Nurses monthly news bulletin Friday 25 October 2019

### NZNO / section news

#### Consultation

NZNO regularly seeks members input on a range of documents up for consultation. The listing is regularly updated and full information [can be found here](#)

#### **Sexual Violence Legislation Bill**

NZNO welcomes your feedback on this Bill which aims to reduce the re-traumatisation of sexual violence victims during court proceedings through increasing the variety of ways complainants could give evidence in court. **Due 24 January 2020**

#### **Proposed draft revision to Guidelines to the Mental Health (Compulsory Assessment and Treatment) Act 1992**

The inquiry into Mental Health and Addictions He Ara Oranga identified the Mental Health Act (Compulsory Assessment and Treatment) Act 1992 as needing urgent revision. **Due December 13, 2019.**

#### **Understanding digital literacy for health and disability providers in NZ**

We are seeking feedback to inform the Ministry of Health on nurses' understanding of how the health and disability sector has incorporated digital tools and platforms. We would love to hear from you about what people already know and what they feel they lack. **Due 13 December 2019**

#### **Proposed new approach to disposal authorisation for health information**

NZNO welcomes your feedback on a new approach to disposal authorisation being tested by Archives New Zealand using health sector information. **Due 16 December 2019**

#### **Proposed changes to paracetamol warning and advisory statements**

Medsafe is seeking comments on proposed changes to current warning and advisory statements for paracetamol. **Due 24 January 2020**

### **New Zealand**

#### **Hawke's Bay DHB says getting rid of mould in homes is paying off**

Ridding homes of damp and mould is working, with the number of children needing treatment for lung conditions down by thousands, including in Hawke's Bay.

The national Health Homes Initiative, aimed at ensuring children are living in warmer drier homes, has led to a reduction in doctor visits, medications and hospital stays, a University of Otago (Wellington) evaluation has found. [Read more](#)

### **Australian bush fires: Northwesterly wind covers New Zealand in layer of smoke**

Bush fires raging in Australia combined with northwesterly winds has left New Zealand covered in a layer of smoke. [Read more](#)

### **Asthma (inc paediatric)**

#### **School-based telehealth program reduces ED visits by pediatric asthma patients**

Researchers at the Medical University of South Carolina (MUSC) report in JAMA Pediatrics an association between a school-based telehealth program and reduced emergency department visits for children with asthma living in a rural and underserved region of South Carolina. [Read more](#)

#### **Smart devices for the management of pediatric asthma : a scoping review protocol**

Betz, Cecily L.... et al

JBI Database of Systematic Reviews and Implementation Reports: November 2019 - Volume 17 - Issue 11 - p 2308–2316

doi: 10.11124/JBISRIR-D-19-00083

Objective: The objective of this scoping review is to identify the scope of literature published on the use of smart devices for interventions in pediatric asthma, including low income and culturally diverse populations.

Introduction: Childhood asthma results in substantial morbidity and costs that pose a significant burden to families and healthcare systems. Low-income and culturally diverse pediatric populations have increased rates of morbidity and mortality compared to higher income families. Smart devices have the potential to improve pediatric asthma health outcomes and reduce health disparities. [Read more](#)

*The items below are not available full text but may be sourced via a DHB library through databases like CINAHL or Proquest, or through the NZNO library service*

#### **Asthma control and acute healthcare visits among young adults with asthma—A population-based study.** Selberg, S, Hedman, L, Jansson, S-A, Backman, H, Stridsman, C. J Adv Nurs. 2019; 75: 3525– 3534. <https://doi.org/10.1111/jan.14174>

Aims

To study asthma control and acute healthcare visits among young adults with asthma.

Background

Despite the access to effective treatment and nursing interventions, poor asthma control is still common among individuals with asthma. However, studies describing clinical characteristics among young adults with asthma are rare.

#### **A randomized controlled trial of a mobile application-assisted nurse-led model used to improve treatment outcomes in children with asthma.** Lv, S, Ye, X, Wang, Z, et al. J Adv Nurs. 2019; 75: 3058– 3067. <https://doi.org/10.1111/jan.14143>

Aim

To evaluate the effectiveness of a mobile application-assisted nurse-led management model in childhood asthma.

Background

Studies have shown that a nurse-led asthma management model can improve asthma outcomes. However, the role of a mobile application-assisted nurse-led model in paediatric asthma management has not been studied well.

## Bronchial disorders (Bronchiectasis/Bronchiolitis)

### Parents' information needs and preferences related to bronchiolitis: a qualitative study

[Alyson Campbell](#), ... et al. *cmajo* November 4, 2019 vol. 7 no. 4 E640-E645  
doi: 10.9778/cmajo.20190092

Background: Bronchiolitis affects more than one-third of children less than age 2 years and can cause substantial anxiety for parents, leading them to seek information on how to care for their sick child. The aim of our qualitative study was to explore the information needs and preferences of parents caring for a child with bronchiolitis. [Read more](#)

## COPD

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### Health Literacy and Medication Adherence in COPD Patients: When Caregiver

**Presence Is Not Sufficient**, Kimberly A. Muellers, Li Chen, Rachel O'Connor, Michael S. Wolf, Alex D. Federman & Juan P. Wisnivesky (2019) *COPD: Journal of Chronic Obstructive Pulmonary Disease*, 16:5-6, 362-367, DOI: [10.1080/15412555.2019.1665007](#)

Limited health literacy (HL) is associated with a lower medication adherence in patients with chronic obstructive pulmonary disease (COPD). In this study, we examined the potential mitigating role of caregiver support on the relationship between HL and adherence to COPD medications. We conducted a prospective observational study of adults with COPD and their caregivers. HL was assessed using the Short Test of Functional Health Literacy in Adults (S-TOFHLA) and COPD medication adherence was evaluated with the Medication Adherence Rating Scale (MARS). We also collected caregiver HL data for a subset of participants. We tested whether having a caregiver impacted the relationship between HL and medication adherence using cross-sectional data collected between 2011 and 2015. Our sample included 388 COPD patients and 97 caregivers. COPD patients with low HL had a lower medication adherence (odds ratio [OR]: 0.44, 95% confidence interval [CI]: 0.24–0.81) after adjusting for sociodemographic factors. Caregiver presence was not associated with increased patient medication adherence (OR: 1.28, 95% CI: 0.79–2.08). Among the subset of patients with caregivers, low patient HL remained associated with a lower medication adherence (OR: 0.28, 95% CI: 0.09–0.82) when adjusted for caregiver HL and sociodemographic factors. Low HL is associated with lower COPD medication adherence, and this effect is not mitigated by the presence of a caregiver. These findings suggest a need for effective strategies to manage high-risk COPD patients with low HL, even among those with adequate support from caregivers, and to design interventions for both patients and caregivers with low HL.

## Cystic fibrosis

### Drug shows dramatic effect on cystic fibrosis

A new treatment for cystic fibrosis (CF) could see the illness transformed from one that cuts lives short to one that can be managed with medication for 90% of patients. The therapy consists of three drugs that restore the function of the protein affected by CF: one that corrects the misfolding of the protein and two that activate the protein when it reaches the cell membrane. [Read more](#)

## Influenza

*The item below is not freely available but may be sourced via a DHB library through databases like CINAHL or Proquest, or through the NZNO library service*

**Don't hesitate, vaccinate! An influenza vaccine education program.** Burke, K, Schwartz, S, Breda, K. *Nurs Forum*. 2019; 54: 553- 556. <https://doi.org/10.1111/nuf.12369>

The State of Connecticut mandates that prekindergarten children be vaccinated against the influenza virus each year by December 31st. Annually, prekindergarten students in urban schools in Connecticut are not compliant with this statute due to many factors such as parents' lack of education. The purpose of an educational intervention project (EIP) is to provide urban prekindergarten parents/caregivers with education about the influenza virus, influenza vaccine, the community resources, and Connecticut mandates. An influenza vaccine educational intervention was provided to parents and caregivers of prekindergarten students in one urban elementary school in Connecticut. Parents were educated during an open house at the school and then 4 weeks later at a Meet and Greet with prekindergarten parents. Information regarding influenza virus, vaccine, and state regulations was provided along with Pre- and post-questionnaires to assess the level of knowledge. The goal of this EIP is increased knowledge of the influenza virus, the vaccine, community resources, and state regulations. The success of this educational intervention can be shared and implemented in other licensed prekindergarten programs to increase parents' knowledge and it would lead to increased rates of district-wide compliance and decreased student absences. Most importantly, implications point to the potential protection of the public from an illness stemming from the influenza virus.

## Lung cancer

**Cardiorespiratory Fitness May Improve Lung Cancer Outcomes**

HealthDay News — Higher cardiorespiratory fitness is associated with a lower risk for [lung cancer](#) incidence in former smokers and a reduced risk for cancer mortality in current smokers diagnosed with lung cancer, according to a study published in the *American Journal of Preventive Medicine*. [Read more](#)

## Research

**Dopamine may worsen lung inflammation in asthma**

A new study on a mouse model of asthma shows that nerve cells producing dopamine, a neurotransmitter, signal T cells in the body to promote inflammation due to allergic reactions in the lungs during childhood but not in adult mice. The study, published in the journal [Immunity](#) on November 19, 2019, could explain why children are more prone to asthma than adults are, and could also help develop new methods of treating this illness.

[Read more](#)

## Sleep apnoea

**Study suggests women may be undertreated for obstructive sleep apnea**

Obstructive sleep apnea (OSA) has been considered a predominantly male disease. While more women have been diagnosed with OSA in recent years, the numbers remain disproportionate, with 3-to-5 times more men than women receiving an OSA diagnosis. Investigators from Brigham and Women's Hospital and Yale School of Medicine set out to understand this disparity and its causes. They found that a high proportion of women experienced sleep apnea during dream sleep, which is associated with adverse outcomes including cardiovascular disease. Their findings have implications for the screening, diagnosis and treatment of OSA among women and men and are published in the journal *SLEEP*. [Read more](#)

## Smoking (inc vaping and electronic cigarettes)

### At least a third of kids are vaping - principals

High-decile schools say at least a third of their students are trying vaping - and they want quick action to regulate it. [Read more](#)

### Don't Get Sucked In - New campaign to tackle teen vaping

Asthma and Respiratory Foundation NZ (ARFNZ) has announced its plans today to launch a nationwide, youth focussed vaping education campaign, at the beginning of Term One 2020. [Read more](#)

### Physicians create guide for identifying, treating vaping lung illness

As lung injuries from vaping continue to rise across the United States, Rochester physicians and New York health leaders developed a new tool to assist in the diagnosis and treatment of e-cigarette, or vaping, product use associated lung injury (EVALI). [Read more](#)

### Tobacco cessation programs may up quit rates in cancer patients

(HealthDay)—Enrolling actively-smoking oncology patients into a comprehensive tobacco cessation program may help patients sustain long-term abstinence from smoking and improve their cancer treatment outcomes, according to a study recently published in JAMA Network Open. [Read more](#)

### Mobile phone text messaging and app-based interventions for smoking cessation

Cochrane Systematic Review - Intervention Version published: 22 October 2019

<https://doi.org/10.1002/14651858.CD006611.pub5>

Mobile phone-based smoking cessation support (mCessation) offers the opportunity to provide behavioural support to those who cannot or do not want face-to-face support. In addition, mCessation can be automated and therefore provided affordably even in resource-poor settings. This is an update of a Cochrane Review first published in 2006, and previously updated in 2009 and 2012.

#### Objectives

To determine whether mobile phone-based smoking cessation interventions increase smoking cessation rates in people who smoke. [Read more](#)

### Interventions for pregnant women who use tobacco and other substances: a systematic review protocol

Jackson MA, Baker AL, McCarter KL, *et al.* *BMJ*

*Open* 2019;**9**:e032449. doi: 10.1136/bmjopen-2019-032449

**Introduction** The prevalence of tobacco smoking in pregnancy remains elevated in some disadvantaged populations of women. One group is those who use alcohol and/or other psychoactive substances during pregnancy, with tobacco use prevalence estimates ranging from 71% to 95%. Although effective evidence-based cessation treatments exist, few women with co-occurring substance use problems successfully stop smoking during pregnancy. There is limited information about treatments that specifically target this group and a summary of the available research is required to assist and enhance the development of innovative cessation interventions. This article describes a protocol for a comprehensive review of studies that have trialled behavioural and/or pharmacological tobacco cessation interventions in populations of pregnant women who are nicotine dependent and use alcohol and/or other psychoactive substances. [Read more](#)

## Smoking related illness

### **CDC: Most sickened by vaping are white, younger, using THC products**

Most of the people sickened by e-cigarette or vaping product use-associated lung injury are white, under the age of 35 and used a THC-containing product, according to the CDC's most recent Morbidity and Mortality Weekly Report. "A more defined picture" of those affected by EVALI is becoming clear, said Dr. Robert Redfield, CDC director, who added that the evolving data "can help bring us a step closer to identifying the cause or causes of this outbreak." [Read more](#)

### **Vitamin E acetate found in lungs of vaping victims – Expert Reaction**

The Centers for Disease Control and Prevention (CDC) is narrowing in on vitamin E acetate as a potential cause of vaping illnesses and deaths in the US, with confirmation the chemical has been found in all 29 lung tissue samples taken from patients. [Read more](#)

## Tuberculosis

### **'Game changing' tuberculosis vaccine a step closer**

A vaccine which could "revolutionise" tuberculosis treatment has been unveiled by researchers. [Read more](#)

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*It is provided on the last Friday of each month and contains an overview of news items, articles and research papers of interest to the College members. All links are current at the time of being compiled and distributed.*

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