LETTERS

Angiotensin receptor blockers (ARBs)

Guertin and colleagues describe potential savings from restricting use of ARBs in Canada. The US Department of Veterans Affairs prefers angiotensin-converting-enzyme (ACE) inhibitors over ARBs, with national criteria for use to guide prescribing.

Even in a closed system such as Veterans Affairs, however, there are opportunities for savings; we find substantial variation in the use of ARBs and ACE inhibitors across the system. For 2009, we examined variations among facilities in the proportion of patients taking a renin-angiotensin system blocker who were also taking an ARB.2 The median proportion was 17.2% (lower than the 25% described by Guertin and colleagues for 2006) but ranged across facilities from 6.4% to 33.6%. In an analysis in fiscal year 2010, we found that if all regions in Veterans Affairs were to use ARBs at a rate not higher than the national average, the savings to the department could be US\$2.4 million per year (unpublished data). If all facilities were to use ARBs at a rate not higher than the lowest-using five facilities, the savings would have been US\$6.5 million per year.

We concur with the authors that careful evaluation of patterns of drug use can identify opportunities for substantial cost savings, where patient outcomes are not likely to be adversely affected. Such variation in precribing patterns suggests that factors beyond patient variability affect drug choice. Even small differences in patterns of use can have large cost implications at a national level, as the authors demonstrated for just one drug class in Canada.

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Malnutrition, age and inhospital mortality

We recently showed that malnutrition is independently associated with a prolonged length of hospital stay.¹

In a further analysis of our data, we investigated the association of malnutrition (nutritional risk index < 97.5) and age (≤ 65 years v. 65 years) with in-hospital mortality by a conditional logistic regression model stratified by diagnosis of cancer and hospital stay in a medical or surgical ward.

Older patients (44.4%) were more frequently at nutritional risk than younger patients (39.7% v. 49.7%, p < 0.001). The in-hospital mortality rate was 4.1% (n = 52; 95% confidence interval [CI] 3.0–5.2). The rate was 1.5% (95% CI 0.7–2.7) in patients with normal nutritional status and 7.1% (95% CI 5.1–9.4) in malnourished patients.

The crude odds ratio (OR) for inhospital death was 4.27 (95% CI 2.09-8.75, p < 0.001). There was a significant interaction between age and nutritional risk (p = 0.023), with age identified as a strong effect modifier. Indeed, in patients aged 65 years or less, mortality was 0.5% (95% CI 0.0-1.7) in the absence of malnutrition and 7.0% (95% CI 4.4-10.3) if malnutrition was present. The OR for death was 11.91 (95% CI 2.74–51.79), p < 0.001). Conversely, in patients aged more than 65 years, the difference in mortality was much lower (3.0%, 95% CI 1.3–5.7 v. 7.1%, 95% CI 2.5–10.2), and the OR for death was 2.19 (95% CI 0.91-5.24, p = 0.07).

Our data emphasize the importance of nutritional screening at the time of hospital admission, because malnutrition could represent a strong predictor of mortality, especially in nonelderly patients. Further multivariable studies with adequate sample sizes are needed to investigate the association among malnutrition, age and in-hospital mortality.

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Depression: addressing our blind spots

Serious medical conditions may be missed because of the presence of a psychiatric history. Most of us who work at the interface of medicine and psychiatry would agree with the authors that such a consequence is not intentional.

In the system's efforts to reduce wait times, attempts are made to find efficiencies wherever possible. This may include making assumptions based on probabilities — for example, that most chest pain is noncardiogenic and that a psychiatric history might make this even more likely.

However, the death rate for people with mental illness is about 70% higher than that for the rest of the population. As the complexity and age of patients continues to rise, we need to ensure that proper medical care is provided to everyone, including those with a history of psychiatric illness. This is very important in emergency departments with parallel process models where a patient with a psychiatric history can be initially seen by someone in psychiatry instead of the emergency physician.

Patients with psychiatric illnesses will only be assured the best of care by:

· educating practitioners in emer-

gency, psychiatry and other medical specialties about psychiatry and medical comorbidities

- conducting further research to understand the attitudinal aspects inherent in various specialties, including what messages are being learned and taught as part of the hidden curriculum of medicine²
- making ongoing efforts to continue to decrease stigma of mental illness
- advocating for patients who cannot advocate for thier own medical care.

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Folic acid in older adults

I could not agree more with Colapinto and colleagues' interpretation of the results of their study of folate status in Canada. I'd like to raise awareness of the need to protect another population group: older adults.

An overwhelming proportion of older

people aged between 65 and 94 years had elevated levels of total folate in a seven-year cohort (1997–2004). The levels were elevated in 84% of people obtaining folic acid exclusively from their diet (i.e., not taking folic acid supplements) as opposed to 100% in those taking multivitamins. Moreover, total folate levels were found to increase at an annual rate of 234 ng/mL (p < 0.001) since the beginning of fortification in 1998 and had not reached a plateau by 2004.

Because this population is not at child-bearing age, the only advantage of fortification is a reduction of homocysteine levels. Elevated levels of homocysteine, however, were reduced from 13% to 7% by 2000, but they increased again to 16%. Thus, the benefit of folic acid fortification in older adults was not maintained despite continuously increasing levels of total folate.

Older adults are at the highest risk of malignancy, so exposing them to further increases of folate seems unreasonable and possibly dangerous. I urge Health Canada to consider all populations before deciding to increase the concentration of folic acid in products consumed every day by everyone.

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Some letters have been abbreviated for print. See www.cmaj.ca for full versions.

CORRECTION -

Poignant tales of refugees in Canada

In the film review published in the Feb. 22, 2011 issue of *CMAJ*, the name of the medical coordinator of the Bridge Clinic was misspelled. The correct name is Dr. Maureen Mayhew. We apologize for any inconvenience this error may have caused.

Reference

1. Pottie K. Poignant tales of refugees in Canada. *CMAJ* 2011;3:350.

CMAJ 2011. DOI:10.1503/cmaj.111-2037



