

CONSENSUS STATEMENT REGARDING THE APPLICATION OF BIOGEN TO HEALTH CANADA FOR APPROVAL OF ADUCANUMAB

In response to Biogen's recent (May 2021) application to Health Canada for approval of aducanumab, following its approval by the U.S. Food and Drug Administration (FDA) for the treatment of Alzheimer's disease (AD)¹, leaders of our organizations and prominent Alzheimer's disease clinical experts in Canada met to discuss the situation.

All of us support the need for the research community and the pharmaceutical industry to remain dedicated to finding effective new treatments for all phases of AD, including the pre-dementia stage of Mild Cognitive Impairment (MCI). We are also sensitive to the lack of an approved disease-modifying therapy for patients with AD, and to the fact that dementia advocacy groups have applauded the accelerated approval of aducanumab by the FDA in the U.S.

RECOMMENDATION TO HEALTH CANADA

The clinical dementia expert community in Canada has not seen all the evidence being brought forward by Biogen to support their application. Even so, what is available suggests aducanumab does not meet accepted criteria for clinical efficacy, safety, and risk benefit of an agent for Alzheimer's disease that would justify Health Canada regulatory approval. The uncertainty about the phase 3 trials leaves our clinical and scientific community wanting more proof, as would come from a further phase 3 trial.

While we recognize the urgent need to give hope to patients and not needlessly delay the introduction of an effective therapeutic, **introducing a medication that does not meet the threshold for clinically relevant benefit could, in fact, have detrimental effects**. There are major questions about costs and benefits, coupled with the likelihood that, if approved, any such drug will be highly sought by those seeking any hope at any cost. Approval by Health Canada will have significant implications for further research into better treatments and will establish a very low benchmark for future approvals. For any such disease-modifying treatment introduced for AD, the risks of a very broad regulatory label based on biomarker outcome leaves the clinical community without guidance on how to use the treatment appropriately, including which patients should be treated, for how long, and with what measures of efficacy. The national academic and clinical dementia expert community commits to voluntarily participate in a broadly-based working group to advise Health Canada from a researcher/clinician perspective on how best to evaluate and introduce, if deemed sufficiently effective, an anti-amyloid disease-modifying therapy for AD in Canada.

¹ On July 8, 2021, the FDA announced that the indication for aducanumab would be limited to Mild Cognitive Impairment and mild Alzheimer's disease

COMMENTS ON THE CURRENT SITUATION

We wish to elaborate on a set of issues raised by the current situation.

- 1. Evidence of aducanumab efficacy. We are in a situation where all the relevant data supporting Biogen's application for approval of aducanumab as disease-modifying therapy for Alzheimer's disease, first to the FDA and now Health Canada, have not yet been published or otherwise made available to experts outside the FDA's expert advisory committee. The fact that the FDA's own advisory committee did not support approval of the application by Biogen to the FDA (10 of eleven members voted against approval, while the 11th member was undecided) must therefore stand as a major "red flag" in how Canadian regulatory bodies and health care practitioners assess this medication. A recent independent review from the Institute for Clinical and Economic Review (Lin *et al.*, 2021) reached much the same conclusions. We urge Biogen to make all relevant data available for scrutiny, including outcomes in the open label long-term extension phase which have never been made public.
- 2. Evaluation criteria. Based on the limited data made available to date, Canadian clinical dementia experts urge caution in the deliberations about approval by Health Canada at this time. Accepted criteria for gauging the clinical meaningfulness of any statistically significant treatment effect of an agent being evaluated for Health Canada for approval include: (a) the treatment should be biologically plausible; (b) there should be a dose response; (c) the effect size should be large enough to be at least clinically detectable; (d) there should be convergence of measures within a trial; and, (e) there should be reproducibility between trials (Rockwood et al., 2001). Based on the data we have seen thus far, aducanumab only meets the first and weakest of these criteria. Clinical efficacy has not been proven by the widely accepted FDA standard of two successful phase 3 studies. In this case, one study (EMERGE) met endpoints, while another study (ENGAGE) failed to do so. This does not provide sufficient converging evidence, and we feel the futility analysis that led to the early termination of the studies may have been correct. Post-hoc analyses, such as those used by Biogen showing success in subgroups at the highest dosage, are notoriously unreliable. The biomarker support critical for the FDA's approval-evidence of lowering amyloid levels within the brain-would only be sufficient if amyloid was a demonstrated and accepted surrogate measure that indicated dementia progression and/or reversal, which is not the case (Panza et al., 2019). We are of the opinion that a further phase 3 high-dose trial is needed to assess whether aducanumab is truly a clinically efficacious agent (Knopman et al., 2021).
- 3. <u>Third trial proposal</u>. The alternative proposed by the FDA—that the medication be conditionally approved, but that another trial is undertaken and reported within nine years—is not sufficiently urgent or timely in its proposed time frame. We are convinced that trials of the desired magnitude could be undertaken and completed within a much shorter period when mandated.
- 4. Dangers of premature approval. While we recognize the urgent need to "give hope" with a "treatment that can be beneficial at the early stages of AD and MCI" (Alzheimer's Disease International, 2021), we believe introducing a medication with a limited (or perhaps not clinically relevant) benefit and with significant risks, including the high rate of amyloid-related imaging abnormalities with both brain swelling and micro-bleeds, could in fact have detrimental effects. It would: (a) set a bad precedent by establishing such a low bar for therapeutic success (the approval provided by FDA for aducanumab, based on a surrogate biomarker outcome, will promote others to seek the same indication without proving clinical benefits); (b) possibly impede recruitment into randomized control trials where placebos are compared with other promising agents; (c) lead to disillusionment and loss of confidence in the drug regulatory system if it later proves that the medication is not effective; (d) potentially detract from other elements of clinical care for AD by steering

money and resources into setting up the infrastructure required for disease-modifying therapies; and (e) increase the burden on the health care system and specialist physician resources in return for little gain.

- 5. <u>Targeted use</u>. If the drug is approved in Canada despite the limited evidence, we strongly recommend that its labelling have important constraints that align with the specific population enrolled and safety measures taken in the studies that led to the drug's approval. This would include a labelled stage indication, i.e., "MCI due to Alzheimer's disease" or "Mild AD dementia", since these were the inclusion criteria for the phase 3 studies. It should only be administered to individuals demonstrating abnormal presence of brain amyloid. Individuals should undergo MRI for preexisting microhemorrhages (ARIA-H) prior to their receiving aducanumab, and after initiation of therapy, to monitor for the development of this complication. Guidance for clinicians on acceptable rates of preexisting MRI changes will need to be developed. This means the medication should only be used where there is sufficient rapid access to MRI to be able to safely monitor for amyloid-related imaging abnormalities (ARIA).
- 6. <u>The lack of readiness in Canada to accommodate any pharmacological disease-modifying therapy</u> for AD. The RAND Corporation, in a preparedness study of the Canadian health care system (Liu *et al.*, 2019), highlighted current deficiencies. These are not insurmountable, but authorities should be well aware of the enormous changes that will be needed. The introduction of an effective anti-amyloid disease-modifying therapeutic agent for MCI or early AD dementia would likely require important changes in the delivery of dementia care:
 - a) In Canada, most care for dementia is currently provided in the primary care sector, but with disease-modifying therapies like aducanumab, there would be a need for a greater proportion of persons with suspected AD to undergo a specialist-based dementia evaluation as a prelude to the use of an intravenous, disease-modifying therapy for a sub-group of AD patients with specific characteristics. All Canadian Consensus Conferences on the Diagnosis and Treatment of Dementia (CCCDTD; Clarfield, 1991; Patterson, Gauthier *et al.*, 1999; Chertkow, 2008; Gauthier, Patterson *et al.*, 2012; Ismail, Black *et al.*, 2020) have emphasized that most dementia care should and can be provided in the primary care sector. There are currently an insufficient number of specialists and memory clinics to accommodate a dramatic change in care patterns that approval of an expensive, disease-modifying therapy targeted to a particular sub-group of persons living with AD could require. The potential implications of such a shift in the locus of where dementia care is provided will require careful planning and resources.
 - b) The evaluation of amyloid status as part of diagnostic assessment would become necessary in our opinion. In all provinces and territories, amyloid PET scanning and lumbar puncture capacity (the current approaches to identifying underlying AD pathology) are presently limited, and serum amyloid biomarkers of AD remain unproven for clinical use.
 - c) Monthly intravenous infusions for thousands of individuals would become necessary for most disease-modifying therapeutics, and capacity for this is currently limited.
 - d) MRI access for therapeutic follow-up would have to be much more accessible than is currently the case across Canada. Amyloid-related imaging abnormalities (ARIA), including edema and microhemorrhages, occurred in 35% of individuals who were treated with the highest dose of aducanumab in clinical trials (Knopman *et al.*, 2021; Cummings *et al.*, 2021). Patients in the phase 3 trials of all anti-amyloid drug trials have been monitored with repeated, thin slice MRI scans before and after initiation of therapy, and immediately when any concerning symptoms such as headache, dizziness, or grogginess arose. There needs to be regular, scheduled access to MRI over the course of dose titration, with access to additional MR scanning if ARIA are observed. MRI access to follow therapy must be available for safety reasons if anti-amyloid disease-modifying

therapy is introduced in Canada, and the medical community, hospitals, and provincial funding agencies must be mobilized to achieve this. Additionally, MRI protocols would need to be altered and neuroradiologists trained to detect ARIA.

- 7. Value for investment. A cost/benefit analysis of aducanumab in the U.S. from the Institute for Clinical and Economic Review found "that the evidence is insufficient to conclude that the clinical benefits of aducanumab outweigh its harm" and that "the annual proposed cost would not be in alignment with its clinical benefits" (Lin et al., 2021, page ES3). Given the single-payer health care system in Canada, the benefits of an expensive, disease-modifying therapy for MCI or dementia due to AD will need to be balanced against other potential uses of limited public financial resources. For instance, potentially preventable dementia risk factors were responsible for up to 40% of dementia cases in evaluations by the Lancet Commission (Livingston et al., 2020). A companion paper noted that there are effective interventions for hypertension (including stroke prevention strategies), smoking cessation, diabetes prevention, and untreated mid-life hearing loss (Mukadam et al., 2020). Aggressive public treatment interventions for these (or public programs on blood pressure control, prediabetes, or exercise) are feasible, would produce cost savings, and would likely considerably reduce number of individuals with dementia (Hachinski et al., 2019), comparing favourably with the 20% slowing in the progression of cognitive decline which Biogen argues would occur with aducanumab. A national dementia strategy should be debating and comparing these alternatives. Furthermore, if covering the costs of treatment is left to personal financial resources, there will be unequal access to this agent in Canada and families will be confronted with difficult-at times impossible-financial choices.
- 8. **Further work to be done**. Our organizations and the individual researchers and clinicians working in the field of dementia are willing to voluntarily participate in a broadly based working group to advise Health Canada from a researcher/clinician perspective on the complex issues raised by aducanumab and other disease-modifying therapeutics. Such a working group could work with regulators to review the criteria for approval of disease-modifying therapies for neurocognitive disorders. It could also help define the requirements to use an anti-amyloid disease-modifying treatment in Canada. Among other groups, we believe it would be vital to also involve persons at risk for or living with dementia. We are committed to working with Health Canada and other authorities to define and implement solutions now to address Canada's "preparedness gap", and to prepare our health care system for the introduction of effective disease-modifying therapies for dementia.

This statement was prepared and endorsed by members of the following organizations:

CCNA (Canadian Consortium on Neurodegeneration in Aging) is a Canadian national umbrella organization for research on dementia funded by CIHR and partners with 350 researchers across Canada.

C5R (Consortium of Canadian Centres for Clinical Cognitive Research) is a not-for-profit research network of 30 academic memory clinics and research sites across Canada that conduct clinical trials in the desire to research and develop treatments for patients with Mild Cognitive Impairment, Alzheimer's disease, as well as other forms of dementia.

CAGP (Canadian Academy of Geriatric Psychiatry) is a national organization of psychiatrists and health professionals dedicated to promoting mental health in the Canadian elderly population through the clinical, educational, research and advocacy activities of its membership.

CGS (Canadian Geriatric Society) is the professional society for Geriatric Medicine specialists and Care of the Elderly specialists, and has over 500 members representing such specialists, along with medical students and residents, as well as other physicians and members of allied health professions with an interest in the health care of older adults.

ONDRI (Ontario Neurodegenerative Disease Research Initiative) brings together Ontario's research scientists and clinicians to tackle the complexity of dementia by studying multiple diseases related to neurodegeneration. ONDRI is funded by the Ontario Brain Institute.

TDRA (Toronto Dementia Research Alliance) is a University of Toronto collaboration of scientists and clinicians which aims to better understand, prevent, and treat dementia, and embed research into care.

Drafted by a writing group consisting of Drs. Howard Chertkow, Kenneth Rockwood, David Hogan, Natalie Phillips, and Manuel Montero-Odasso on July 5, 2021.

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In support of the statement

Following the finalization of this position statement, which was written by prominent Alzheimer's disease clinical experts in Canada, and the 6 organizations mentioned earlier, other groups have come forward to express their support of the statement. A first group is added here.

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CIMA-Q (the Consortium for the early identification of Alzheimer's disease) gathers more than 90 Quebec based researchers and clinicians who share the common ambition of advancing knowledge on Alzheimer's disease. More specifically, the aim is to develop tools to detect the very first signs of the disease.

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