Dizziness: confusion, issues and considerations

BY DOUGLAS L BECK

Douglas L Beck gives his unique take on the difficulties involved in diagnosing dizzy patients and the importance of well-founded research acting as the basis for any diagnosis and treatment decisions.

Dizziness. Uh-oh. We really have a very limited understanding of diagnosing and treating dizziness. Words like “vertigo”, “dizziness”, “dizzy”, “unsteady”, “spinning” (and more) are not very accurate, they overlap and they mean different things to different people.

Are you spinning? Is the world spinning around you? Is it going left-to-right or right-to-left? Are you woozy? Light-headed? Do you have hearing loss? OK, well then, it’s your ear. We’ll need to rule out Ménière’s disease and / or endolymphatic hydrops and / or benign paroxysmal positional vertigo (BPPV)? Wait, did you say you had a headache? Do other people in your family have headaches? Maybe you’re experiencing the most common cause of dizziness, a migraine! Ah ha! Then again, it could be your blood pressure. Or maybe it’s your diet – perhaps you’re anaemic? Wait – maybe it’s your vision. It could be you got up too fast… or something else entirely.

How low is the chair you were sitting up too fast… or something else entirely. Maybe it’s your vision. It could be you got your blood pressure. Or maybe it’s your migraine! Ah ha! Then again, it could be your blood pressure. Or maybe it’s your diet – perhaps you’re anaemic? Wait – maybe it’s your vision. It could be you got up too fast… or something else entirely.

How low is the chair you were sitting in? Did you eat breakfast today? Did you lose consciousness? Maybe it’s a brain tumour?

The thing about “dizziness” is no two people or patients describe it the same way. Of course, we all get the concept – but it’s kinda like back pain, tinnitus or headaches. That is, we know what it specifically means to the particular patient, their vocabulary, and the education and profession of the clinician who makes the diagnosis?

The good news is we have tests! Of course we have lots of tests. There is no clinician who makes the diagnosis? Do other people in your family have headaches? Maybe you’re experiencing the most common cause of dizziness, a migraine! Ah ha! Then again, it could be your blood pressure. Or maybe it’s your diet – perhaps you’re anaemic? Wait – maybe it’s your vision. It could be you got up too fast… or something else entirely.

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According to a postal survey in the UK in 2005, 52% of otolaryngologists “were actively involved in the treatment of patients with Ménière’s disease using a wide range of medical and surgical therapies that have little or no evidence base [italics are the authors]. The survey found that 94% of surgeons prescribe betahistine, 63% diuretics and 71% advise salt restriction to their patients, while 52% of surgeons continue to recommend saccus decompression and 50% are still inserting a grommet” [4]. Yikes!

Although salt restrictions make intuitive sense, and although salt restrictions probably have never hurt anyone (except in their taste buds), where is the peer-reviewed data showing dietary salt restrictions improve the perception of dizziness? That is, if dietary salt restrictions worked, why are the patients dizzy for years and years? And what about our typical test protocol preface, which takes the patient off their medications prior to electronystagmography and other dizziness tests? Does that make sense? Seems to me, we want to test them in their current state of being as they live their life, with coffee and salt and their daily meds on board. That is, shouldn’t we evaluate them as they are?

McCaslin (2013), in response to the question of telling patients to discontinue their medications prior to balance testing, said “when you tell them to discontinue their medications, they may accidentally discontinue something they should have stayed on, they may get confused, they may have a really bad day on the day of test because they didn’t take medicines they were accustomed to – and one never knows the exact outcome that could happen if the patient gets confused or skips an important medicine. Bottom line ... we do not tell them to discontinue their medications. Our current approach is to test the patients on their medications and at the time of the appointment and document closely which they have taken and when. I will say that since we have adopted this policy, we have not observed any change in the number of patients presenting with bilateral caloric weaknesses or ocular motor impairments” [5].

In response to the issues of caffeine or no caffeine pre-test, McCaslin stated “there’s no study that I’m aware of that shows the patient cannot have caffeine on the morning of their test! Caffeine is fine and it’s not likely to impact the test an hour or two later, but without caffeine, the patient may be very cranky and some may start to get a caffeine-withdrawal headache! So we absolutely let them have their coffee!” [5].

And finally, I would like to address dizziness in children. Despite our lack of scientific knowledge related to dizziness and despite a lack of children complaining about dizziness (children don’t have the vocabulary to describe dizziness and they may not know that dizziness is bad! Indeed, many children take joy in roller coasters and being upside down on the monkey bars), Beck, Petrak and Bahner (2010) reported vestibular disorders in the paediatric population are most likely under-diagnosed [6]. They stated vestibular disorders are indeed “more common in children with significant hearing loss and other inner-ear abnormalities”. Beck, Petrak, Madell and Cushing (2015) reported “vestibular and balance disorders are highly associated with SNHL in children, however, most professionals don’t screen for vestibular dysfunction in (these same) children. The authors estimated the prevalence of vestibular and balance disorders in children may be as high as 15% of all children, and up to 70% of children with SNHL” [7]. Further, Wolter et al. (2015) reported an increase in cochlear implant failures among children with vestibular and balance issues [8]. Specifically, more than half the children experiencing cochlear implant failure “had an etiology of hearing loss often associated with vestibular disorders (and) bilateral horizontal canal dysfunction, increased the odds of CI failure and need for subsequent re-implantation by eight-fold.”

As clinicians, we need to question everything we do and why we do it. We need to create and adhere to best practices based on peer-reviewed, outcomes-based results (i.e., science). To do less is folly, and to do less is not in the best interest of the patients, the professions or our understanding of the question asked.

References

Douglas L Beck AuD, Director of Professional Relations, Oticon Inc Somerset, NJ, USA.
E: douglaslbeck@gmail.com

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