

Striking the Right Balance – Vestibular Screening Pilot: Finding Balance in the Public Health System

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In this edition of “Striking the Right Balance,” Estephanie Sta. Maria-Vendiola audiologist with Fraser Health Authority at the Surrey Memorial Hospital in Surrey, BC, shares their thought-provoking journey through creating a vestibular screening to address long wait times for vestibular assessments.

Michael Vekasi, MCISc, R.Aud, Aud(C) and Erica Zaia, MSc, RAUD will be coordinating the “Striking the Right Balance,” feature which will cover the latest information on ‘all things vestibular.’

If you would like to be more involved in all things vestibular, please sign-up for the Vestibular Special Interest Group. Sign-up by simply emailing CAAvestibular@gmail.com to let us know you want to be a part. Also, check out our Facebook page for a free list of online vestibular resources at the CAA National Vestibular Special Interest Group page.

Dizziness Not Yet Diagnosed

These are the four most commonly read words in a vestibular patient’s referral.

Our audiology department at the Surrey Memorial Hospital receives upwards of 400 new referrals a year for vestibular assessments, which add to our already long list of patients “not yet diagnosed” and awaiting assessment. As with most publicly funded healthcare sites, the high volume of referrals we receive outnumbers the available resources, including facility space and qualified clinicians. The situation is imbalanced.

The Waiting

On average, our patients wait 9 to 12 months for a vestibular assessment. This delay adds to the overall time they have to wait between specialist referral and accurate diagnosis and, the ultimate goal of deficit-specific treatment. Yet despite the lengthy wait, our patients truly are patient. We have heard many say, “*I know how important this test is. It is what it is. I will wait.*”

Living with dizziness and imbalance is challenging, even more so if it remains unaddressed – often associated are safety concerns, increased risk for falls, and increasing anxiety from their condition. Overall quality of life is impacted. It is not uncommon for patients to share their experience that, “*it’s hard to be taken seriously when no one has determined what the problem is yet.*” For many of our patients, their dizziness and imbalance are unaddressed invisible disabilities.

The Attempt

In an attempt to improve our services and address our long vestibular waitlist at Surrey Memorial Hospital, our team applied for and was awarded the Surrey Hospital and Outpatient Centre (SH&OC) Innovation Grant to pilot a clinical screening model through a triage approach – see workflow below:

1. Review physician referral and consultation letter (if available) and patient-completed questionnaire and Dizziness Handicap Inventory (DHI) score.
2. Identify whether abbreviated vestibular screening or a full audio-vestibular assessment is appropriate level of service for patient.
 - Decision-making is based on patient's description of their dizziness onset, including presence of true-spinning vertiginous sensation, any associated aural symptoms, and their current persisting symptoms including its impact on everyday life (i.e., as per DHI score).
 - It is also worth noting that descriptions that appear suspicious of BPPV is defaulted to receive a vestibular screening, so that repositioning maneuvers (if need be) can be performed at a timely manner.
 - Moreover, patient's descriptions that are non-specific and vague (e.g., headache, pressure-in-head dizziness, lightheaded feeling, etc.) are also assigned to receive a vestibular screening.
3. If screening outcomes warrant further additional vestibular testing, an appointment would be scheduled within two months.

SMH VESTIBULAR SCREENING MODEL WORKFLOW

INCOMING REFERRALS



Physician referrals will include:

1. Patient questionnaire (case history)
2. Dizziness Handicap Inventory (DHI)

1

REVIEW & TRIAGE

2

AUDIO-VESTIBULAR SYMPTOMS

3

NON-SPECIFIC DIZZINESS & BALANCE SYMPTOMS

FULL AUDIOLOGICAL & VESTIBULAR ASSESSMENT

Long appointment: 120 mins +/- 60 to 90 mins

- Review case history
- Full vestibular assessment (120 mins)
- Audiological assessment (60 mins) with ABR testing (90 mins) at audiologist's discretion

VESTIBULAR SCREENING

Short appointment: 60 mins

- Review case history
- Gans SOP
- CD-VAT (per case history)
- Oculomotor test
- Positioning/positional test
- VHIT and/or VEMP

Abnormal findings and/or needs additional testing

Normal vestibular findings

4

Additional vestibular workup booked within 2 months

- VEMP and/or Caloric

Discharge
to physicians and/or other specialists

Discharge

Specific diagnosis and recommendations to physicians and/or other treatment specialists

The Learning

In the initial stages of our screening pilot, two major roadblocks were encountered: (1) Equipment purchasing, and (2) Incomplete case history. We had underestimated the length of time and approvals required for equipment purchasing, which proved challenging as the grant only allowed for three-months to do the pilot. And most critically, incomplete case history pushed the “pause button” on our action plan – a pause that turned out to be an incredible learning opportunity!

Not to sound like a greeting card, but really, when life gives you a pause, it is always for a reason and reflection. Reminiscent of my years as a student, the first thing my vestibular clinical educator required me to do was to read Dr. Marc Bennett’s chapter on *The Vertigo Case History* (in Drs.

Jacobson & Shepard's Balance Function Assessment and Management textbook). Succinctly, it stated:

"The structured case history enables the clinician to acquire, in an organized fashion, information that can be used to formulate a working hypothesis of the origin of the patient's complaints that will either be supported or rejected based on the results of quantitative testing."

Cognizant of the indispensable power of a good case history, we revised our triage approach to allow for intake case history, via telephone, with an audiologist. Although this approach was time-consuming and challenging (i.e., difficult to accommodate patient's best-time-to-call request), this extra effort proved invaluable. Intake case history allowed for rapport building, minimized no-shows, and endorsed better patient care as clinicians had preparatory understanding of each patient's condition prior to their assessment. Furthermore, the telephone intake allowed for preliminary conversations, which afforded opportunities for patient education and counselling that address their ongoing difficulties. Another unexpected and important outcome are with patient who reported having already received an assessment and/or treatment elsewhere; these patients subsequently self-elected to be removed from the waitlist.

The Personal "Aha" Moment

One evening, after a vestibular triage day, I recalled a conversation with my husband who suddenly asked, *"So, tell me again why you are doing this?"* Puzzled at his question, I gave him the classic I-already-told-you-about-this-months-ago look. He further says, *"Well, I understand the waitlist issue, but your team and site are a speciality field. You're possibly the only group of people that truly understands these patients. Shouldn't you test for everything – always?"*

And just like that, I had my giant lightbulb moment. To this day, that conversation resonates in me with each referral and patient we encounter.

As an audiologist in the public sector, it is true that we are a unique commodity in the healthcare space, and that equivalent diagnostic services in the community are scarce and, if available privately, can be too costly for most patients. While every audiologist is trained in diagnostics, not all will have the dedicated time, experience and knowledge that comprehensive audiology assessments require – this is especially true for vestibular assessments. As described by our BC colleague Glynnis Tidball in a recent article – The Case for Diagnostic Audiology (<http://www.canadianaudiologist.ca/issue/volume-4-issue-2-2017/diagnostic-audiology-feature>), there is an audiology crisis that needs attention.

Reflections

A key learning gleaned from the vestibular pilot project was the acknowledgement and reinforcement that our Audiology Department at Surrey Memorial Hospital is a designated diagnostic site. With our vestibular services, this means we cannot simply pre-assign patients to only receive a screening/triage service versus a full vestibular workup. While the screening process helped identify those patients with active or uncompensated vestibulopathy, we were left with uncertainty when only "normal" findings were obtained. We could not completely conclude there was "no peripheral vestibular cause" for the patient's symptoms (based on a referral that was now a year old!). As such, we ended up recalling all those patients for a follow-up vestibular assessment to conduct those tests not performed in the screening.

Presently, the vestibular screening approach is discontinued. The primary reason for this is the likely outcome of minimal reduction in our waitlist, which was our primary goal. Similar to most publicly funded sites, the imbalance between patients and available resources (i.e., space, equipment and clinicians) is complicated and confounded by many contributing factors yet to be

addressed – the lack of direct partnership with referring physicians and rehabilitation team at our site, outdated medical billing codes to support need for costly equipment and sufficient staffing to provide vestibular services, and the lack of trained and qualified vestibular clinicians available, to name a few.

While the vestibular screening did not prove feasible in addressing our department's needs, its outcome validated our identity – Surrey Memorial Hospital is a diagnostic site. Our role in the vestibular patient's care is to help the patient and his/her healthcare team reach an accurate diagnosis. We believe it is important for all vestibular patients to receive a complete vestibular assessment, including a comprehensive intake case history. Only patient-specific factors (e.g., recent neck injury) should affect which tests should be performed.

Altogether, reflections on our pilot project's outcomes affirmed the need for our site to provide a comprehensive vestibular evaluation that is worth the wait.

Next Steps - Finding Balance in Moving Forward

Constantly, we are learning and striving for the right balance, as we seek ways to improve our diagnostic audiology services at Surrey Memorial Hospital. Inspired by the efforts and outcomes of our pilot project, we presently are redesigning our vestibular services. We aim to improve efficiency and better serve our patients, while also caring for our clinicians' caseloads. We are focused in seeking support, initiatives and partnerships from physicians and stakeholders. We are dedicated in advocating for proper funding of our services. We keep moving forward and remain hopeful, proactive, and tuned in.