Convention vs. Innovation I: Telemedicine/Virtual Visits Should Now Be A Preferred Option For Following Patients With PD After Diagnosis

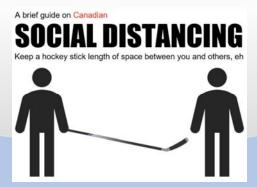
Disagree: Susan Fox, University of Toronto





NO

• As overtime..the Disadvantages outweigh any advantages





GAPS & CONTROVERSIES

upda

Telemedicine in Movement Disorders: Leçons du COVID-19

Eoin Mulroy, MB, BCh, BAO. ^{1*} Elisa Menozzi, MD. ¹ Andrew J. Lees, FRCP, FRCP (Ed), FMedSci, ² Timothy Lynch, MB, BSc, FRCPI, FRCP, ³ Anthony E. Lang, MD, ⁴ and Kailash P. Bhatia, MD, FRCP ¹ ©

Movement Disorders, Vol. 35, No. 11, 2020

- Difficulty sustaining the Dr-Patient relationship
- Difficulty with delivery of Treatment plans
- · Diagnostic ability challenging
- Medical Education limitations



What are the Disadvantages?

Lack of Human Contact

- · We are Doctors not Machines
- · Medicine is a Hands-On Profession
- 'Bedside manner'
- Non-verbal clues help both Doctor and patient. 'Seeing is believing'
- Body language expressions are mostly lost on a computer screen; posture, body orientation, eye contact, side glances or any cross-person interaction is jeopardized

Hall JA, Horgan TG, Murphy NA. Nonverbal communication. Annu Rev Psychol 2019;70(1):271–294.



What are the Disadvantages?

- Missing possible important aspects of the Physical Examination
 - Cognitive testing may be limited
 - Eye movements
 - Power/reflexes/Sensory
 - Tone
 - Posture
 - Gait
 - Pull-test
 - Subtle involuntary movements especially if poor camera set up



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The Virtual Neurologic Exam: Instructional Videos and Guidance for the COVID-19 Era

Mariam Al Hussona^a, Monica Maher^a, David Chan, Jonathan A. Micieli, Jennifer D. Jain, Houman Khosravani, Aaron Izenberg, Charles D. Kassardjian ob, Sara B. Mitchell



What are the Disadvantages?

- Lack of learning opportunities for trainees
 - We learn by example
 - Medicine is an Apprenticeship





What are the Disadvantages?

- Patient Dissatisfaction
 - No exam means not 'seen properly'
 - · Lack of empathy through a digital screen
 - Shorter visit
 - · Language barriers are exacerbated on a virtual screen



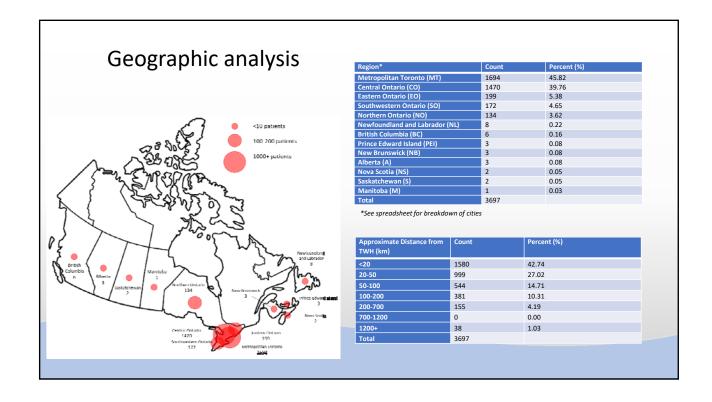


RAMP-UP

- Survey of Patient Satisfaction at TWH MDC
- 376 emails sent to patients who were reviewed using a virtual method in April and May 2020
- 90 Responses received







Question 5: How did your Telemedicine consultation compare to a traditional inperson visit?

Response	Percentage	Breakdown
Better than a traditional in- person visit	9%	Phone: 50%OTN: 33%Other platforms +/- phone: 17%
Just as good as a traditional in- person visit	50%	Phone: 44%OTN: 44%Other platforms +/- phone 12%
Worse than a traditional in- person visit	30%	Phone: 74%OTN: 11%Other platforms +/- phone: 15%
Not sure	1%	• Phone: 100%



Question 7: What were the negative aspects of your Telemedicine consultation compared to the traditional in-person appointment?

Possible limitation	Response
I was not comfortable discussing all my concerns through a telephone call	7%
or a videoconference	7 70
My doctor was not able to do a complete and thorough physical	
examination, which may have precluded an accurate assessment of my condition.	65%
My doctor was unable to perform procedures (e.g., botulinum toxin	
injections, adjustment of deep brain stimulation settings, etc.), which	
were supposed to be done in this visit.	
Concerns about my privacy/confidentiality	2%
Lack of user-friendly software	
Technical difficulties interrupted the consultation.	5%



Overall %virtual visits during covid remains less than In-Person

- MDC 41% Virtual (av 2020) vs 1% 2019
- DBS 37% Virtual (av 2020) vs 2% 2019



What are the Disadvantages?

- Physician Zoom Fatigue
 - Trading burn-out for mental fatigue
 - Will "Video kill the Radiostar" or is zooming just a pandemic transient Hype? Some cautionary notes.

DISTANCING

• G Mechedo. Dig Liver Dis 2020 Oct; 52(10): 1102–1103.



What are the Disadvantages?

- Technical Hitches
 - Frequently video quality is poor.
 - Patients/Caregivers struggle with technical issues





What are the Disadvantages?

• **Financial**; **no re-imbursement** pre-covid for PHONE calls — but generally revised/improved now





Telemedicine Use for Movement Disorders: A Global Survey.

Ester Cubo and colleagues Telemed JE Health 2018 Dec;24(12):979-992.

- **Methods:** online survey was sent to 6,056 Movement Disorder Society members in 2015. (Telemedicine Study Group)
- Results: 9.1% overall response rate from 83 countries.
- Most (85.8%) were physicians, and most (70.9%) worked in an academic or university practice.
- Half of respondents (n = 287, from 57 countries) used telemedicine for clinical care;
 - e-mail (63.2%), video visits (follow-up [39.7%] and new [35.2%]), and video-based education (35.2%).
 - One hundred five respondents personally conducted video visits, most frequently to outpatient clinics (53.5%), patient homes (30.8%), and hospital inpatients (30.3%).
- The most common challenges were a limited neurological examination (58.9%) and technological difficulties (53.3%), and the most common benefits were reduced travel time (92.9%) and patient costs (60.1%). The most frequent reimbursements were none (39.0%), public insurance (24.5%), and patient payment (9.3%). Half of respondents planned to use telemedicine in the future, and three-quarters were interested in telemedicine education.





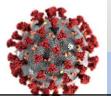
Pre-Covid

Global survey on telemedicine utilization for movement disorders during the COVID-19 pandemic 2020

Anhar Hassan, Zoltan Mari,Esther Cubo, and the International Telemedicine Study Group . 2020 Oct;35(10):1701-1711

- The MDS Telemedicine Study Group surveyed telemedicine experts from 40 countries in March-April 2020.
- Four domains were assessed: legal regulations, reimbursement, clinical use, and barriers; comparing emerging responses to the pandemic versus the baseline scenario.
- Results: All forms of telemedicine for movement disorders increased globally, irrespective of country income categorization, as an immediate response to the pandemic.
- However privacy concerns, lack of reimbursement, limited access, and lack of telemedicine training were barriers highlighted worldwide.
- Conclusion: Questions remain about the longevity and extent of changes in regulations and reimbursement regarding telemedicine in the aftermath of the pandemic.





During covid

Driven to distraction, doctors and patients are renegotiating virtual visits

■ Cite as: CMAJ 2020 November 2;192:E1372-3. doi: 10.1503/cmaj.1095903

Abigail Cukier, Hamilton, Ont.





GAPS & CONTROVERSIES

Reply to: "A New Day: The Role of Telemedicine in Reshaping Care for Persons With Movement Disorders"

Eoin Mulroy, MB, BCh, BAO, 1* Elisa Menozzi, MD, 1 Andrew J. Lees, FRCP, FRCP (Ed) FMedSci, 2 Timothy Lynch, MB, BSc, FRCPI, FRCP, 3 Anthony E. Lang, MD, 4 and Kailash P. Bhatia, MD, FRCP1



Dorsey et al. articulate valid concerns about current models of healthcare provision. Important questions, however, remain—will telemedicine solve problems of access and equity, and does strong evidence support telemedicine becoming a new gold standard? As we recap here, the answer is *no*.