**Appendix 1:**

**Standards of practice in anti-coagulated individuals requiring deep compartment Botulinum injections for limb spasticity**

*Age: Date: Questionnaire #:*

*Questions*

1. Please list the province of your practice: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. How many years of experience do you have administering botulinum toxin injections for patients with spasticity?

○ < 1 year ○ 1 - 2 years ○ 3 - 5 years ○ > 5 years ○ prefer not to respond

1. How many adult patients with spasticity do you have on your roster?

○ 0 - 10 ○ 10 - 30 ○ 30 - 50 ○ > 50 ○ prefer not to respond

1. How many patients have you injected in the past month? (0-10, 10-20, 20-30; >30

○ 0 - 10 ○ 10 - 30 ○ 30 - 50 ○ > 50 ○ prefer not to respond

1. What percentage of your adult spasticity population is anti-coagulated?

○ < 5% ○ 5 – 20% ○ 20 – 40% ○ 40 – 60% ○ prefer not to respond

1. Of the anti-coagulated group, what percentage of patients are on Warfarin?

○ < 5% ○ 5 – 20% ○ 20 – 40% ○ 40 – 60% ○ prefer not to respond

1. Are you aware of the INR value in the anti-coagulated patients on the day of their injections?

○ Yes ○ No ○ prefer not to respond

1. If no, do you inject these patients?

○ Yes ○ No ○ prefer not to respond

1. Do you inject regardless of their INR value?

○ Yes ○ No ○ prefer not to respond

1. Do you have the ability to measure an INR value prior to or on the day of botulinum toxin injections?

○ Yes ○ No ○ prefer not to respond

1. How do you determine the INR value for a patient using Warfarin?

○ send to lab ○ test at point of care ○ other \_\_\_\_\_\_\_\_\_\_ ○ prefer not to respond

1. How recent an INR result do you use to determine whether or not the injections will be completed at their clinic visit?

○ same day ○ 2-7 days ○ 8-14 days ○ other ○ prefer not to respond

1. What is your comfort INR range for BoNTA injections?

○ < 2.0 ○ 2.0 – 2.5 ○ 2.6 – 3.0 ○ 3.1 – 3.5 ○ 3.6 – 4.0 ○ > 4.0

○ prefer not to respond

1. Do you inject outside the INR comfort zone values?

○ Yes (value\_\_\_\_\_\_) ○ No ○ prefer not to respond

1. Do you normalize the INR value in an anti-coagulated patient prior to injections?

○ Yes ○ No ○ prefer not to respond

1. Are there any muscles that you do not inject regardless of the INR value in that patient?

○ Yes (please list)

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○ No ○ prefer not to respond

1. What is your approach to managing a spasticity patient who requires BoNTA injection and is anti-coagulated with Wafarin?

○ prefer not to respond

1. Do you inject muscles of the deep, distal upper or lower extremity compartments (i.e. FDS, FDP, FDL, TP)?

○ Yes ○ No ○ prefer not to respond

1. If yes to above question, what form of guidance do you use for injecting these deep muscle compartments? (You may select more than one response)

○ E-stim ○ EMG ○ Ultrasound ○ Other \_\_\_\_\_\_\_\_\_\_\_ ○ prefer not to respond

1. Have any of your patients (anti-coagulated with Warfarin + injected in deep compartment muscles) ever developed a compartment syndrome as a result of your injections?

○ Yes ○ No ○ prefer not to respond

1. If yes to above question, how many such complications (compartment syndrome) have you had in the past year?

○ prefer not to respond

1. Have you heard from colleagues about complications such as compartment syndrome in anti-coagulated patients who were injected with BoNTA?

○ Yes ○ No ○ prefer not to respond

1. Would you like to withdraw from this survey?

○ Yes ○ No

1. Would you like to submit this survey?

○ Yes ○ No