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### **Testimony Senate Health & Welfare Committee - February 14, 2020**

Thank you for the opportunity to testify on S.252 regarding the administration of minimally manipulated cellular preparations (currently marketed as “stem cell therapy”). The Vermont Ethics Network (VEN) recognizes that legitimate research in the use of cellular based therapies remains a rapidly advancing and promising field. However, the proliferation of clinics marketing unregulated stem cell products with claims of efficacy and safety that are not evidence-based is concerning. Particularly problematic is the growing practice of promoting unproven and expensive “treatments” that offer unknown benefits and may pose significant risks to the health of sick and vulnerable patients.

#### **History of Vermont Ethics Network Involvement**

In October of 2018, the VEN Board had a presentation from a pulmonologist on the topic of stem cell medical tourism. This, along with a series of ads appearing in the *Times Argus* in November of 2018, prompted the organization to send letters to the Attorney General, The Board of Medical Practice and the Office of Professional Regulation requesting investigation into the advertising practices of these clinics. Specifically that the ads may:

- Falsely imply that stem cell therapy is effective for all of the conditions listed in the ads;
- Falsely imply that the stem cell process is regulated by the FDA;
- Fail to give adequate informed consent of downside risks compared to lack of proven efficacy;
- Fail to disclose weak or non-existent scientific rationale for the treatment and the lack of knowledge of any known mechanism of “healing”;
- Fail to disclose that the experimental nature of the treatment is not subject to standardized experimental protocols.

Additionally VEN expressed concern that the advertisement and practice may constitute unauthorized medical or naturopathic practice; may constitute false advertising; may be offering false hope to vulnerable persons desperate for any treatment, regardless of proven effectiveness; and may, as has been previously reported, cause serious harm.

#### **Ethical Issues Related to Current Advertising & Practice of Stem Cell Clinics**

- ***Truth telling*** is a near absolute in medical ethics and underpins the very foundation of the clinician-patient relationship. Yet, research shows that the advertising strategies deployed by commercial stem cell providers exaggerate potential benefits, use misleading or ambiguous terminology to suggest scientific legitimacy, fail to disclose risks, and often what is advertised is not what is actually being administered.<sup>1</sup> This practice of misrepresentation and misleading information about unproven stem cell products violates public trust, contributes to misunderstanding and confusion, promotes usage for an inappropriate range of applications and creates false hope.
- ***Challenges for Informed Consent:*** The core elements of informed consent include discussion about the risks, benefits and alternatives of any proposed treatment, including no treatment. Ethically, informed consent is the way clinicians demonstrate respect for patient autonomy. Legally, it is the process that protects patients liberty interests—the right to noninterference without their permission. Practically, obtaining informed consent is what promotes patients in making informed, voluntary decisions based on accurate information through a shared decision-making process.

Unclear scientific evidence to suggest efficacy and insufficient data from animal and clinical studies regarding the safety profile to support use in patients means that there is inadequate information available to ensure a proper informed consent.

- ***Professional Standards & Scope of Practice:*** Professional standards require clinicians to know their scope of practice and to practice within that scope. Many stem cell clinics advertise “healing stem cell therapies” for a wide range of conditions. Yet, the clinicians administering the cellular preparations may have no formal training in the conditions they claim to treat. Clinicians providing unapproved stem cell interventions outside of their scope of training violate professional and ethical standards of practice and may increase risk of harm to patients.<sup>ii</sup>
- ***Commitment to the Advancement of Scientific Knowledge:*** The AMA Principles of Medical Ethics are the core elements that comprise the AMA Code of Ethics.<sup>iii</sup> One of those core principles is a “commitment to study, apply and advance scientific knowledge”. Direct marketing to consumers by stem cell clinics and providers capitalizing on the “hype” that surrounds cell-based therapies puts the entire field of stem cell research at risk. Promoting unproven and expensive treatments as legitimate forms of therapy impedes scientific progress and makes the development of new and effective treatments harder to advance.

### **Consent by a Health Care Agent or Guardian**

One could argue that the current environment in which unapproved cellular products are being administered is akin to uncontrolled experimental procedures in humans. The lack of scientific evidence, unknown risks, unlikely benefits and excessive financial costs associated with “stem cell therapy” makes it difficult to justify (from an ethics perspective) a health care agent or guardian consenting on behalf of an incapacitated, vulnerable patient for such a procedure.

### **Recommendation Regarding Proposed Language in H.626**

According to recent literature, the phrase “stem cell therapy” as utilized in current commercial stem cell clinic advertising is scientifically inaccurate and misrepresents the minimally manipulated cellular preparations that are being administered as “stem cells”. Moreover, the words “treatment” or “therapy” can be interpreted as a signal of a medical legitimacy or as having a positive or curative effect. For this reason, we believe the language as proposed in H.626 affords greater transparency and accuracy about the unproven and experimental nature of these preparations.

Respectfully submitted,

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<sup>i</sup> Murray IR, et.al. *Rogue Stem Cell Clinics*. Bone Joint J 2020; 102-B(2):148-154.

<sup>ii</sup> Fu W, et.al. *Characteristics and Scope of Training of Clinicians Participating in US Direct-to-Consumer Marketplace for Unproven Stem Cell Preparations*. JAMA 2019; Volume 321, Number 24.

<sup>iii</sup> <https://www.ama-assn.org/delivering-care/ethics/code-medical-ethics-overview>