

Information on Telepsychology

From time to time the board becomes aware of articles or information that would be educational and informative to licensed psychologists and the consumers of psychological services. In such cases, the board will attempt to bring this information to licensees and consumers, provided the necessary authorizations for publication can be obtained. In the posting of any information on its web site, the board will maintain sole discretion as to what information is posted.

The following information regarding telepsychology has been excerpted with the permission of the primary author from "Regulation of Telepsychology: A Survey of State Attorneys General" by Gerry Koocher & Elisabeth Morray. **Professional Psychology: Research and Practice**, October, 2000, vol. 31, issue #5, pages 503-508.

In light of the survey data obtained in this research, the authors offer the following regarding telepsychology:

- 1. Before engaging in the remote delivery of mental health services via electronic means, practitioners should carefully assess their competence to offer the particular services and consider the limitations of efficacy and effectiveness that may be a function of remote delivery.
- 2. Practitioners should consult with their professional liability insurance carrier to ascertain whether the planned services will be covered. Ideally, a written confirmation from a representative of the carrier should be obtained.
- 3. Practitioners are advised to seek consultation from colleagues and to provide all clients with clear written guidelines regarding planned emergency practices (e.g., suicide risk situations).
- 4. Because no uniform standards of practice exist at this time, thoughtful written plans that reflect careful consultation with colleagues may suffice to document thoughtful professionalism in the event of an adverse incident.
- 5. A careful statement on limitations of confidentiality should be developed and provided to clients at the start of the professional relationship. The statement should inform clients of the standard limitations (e.g., child abuse reporting mandates), any state-specific requirements, and cautions about privacy problems with broadcast conversations (e.g., overheard wireless phone conversations or captured Internet transmissions).
- 6. Clinicians should thoroughly inform clients of what they can expect in terms of services offered, unavailable services (e.g., emergency or psychopharmacology coverage), access to the practitioner, emergency coverage, and similar issues.
- 7. If third parties are billed for services offered via electronic means, practitioners must clearly indicate that fact on billing forms. If a third-party payer who is unsupportive of electronic service delivery is wrongly led to believe that the services took place in vivo as opposed to on-line, fraud charges may ultimately be filed.

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California Board of Psychology

Committee on Contemporary and Emerging Issues

Telepsychology/Telemental Health Resources, Articles and Discussion Materials

For February 26-27, 2010 Board Meeting (also sent e-mail)

(Numerous articles available on web-search)

Please be advised any resources, materials or website addresses are purely for evaluatory purposes and discussion. This supposes no endorsement by the California Board of Psychology regarding any treatment or opinions expressed in any of these resources.

Ohio Psychological Association re: Telepsychology
http://www.ohpsych.org/resources/1/files/Comm%20Tech%20Committee/TelepsychologyGuidelinesApproved041208.pdf

California Board of Psychology, Board of Psychology Update 2005 "Tips on Telepsychology" http://www.psychboard.ca.gov/formspubs/bop0105.pdf

California Board of Psychology-Notice to California Consumers Regarding the Practice of Psychology on the Internet http://www.psychboard.ca.gov/consumers/internet-thrpy.shtml

ATA: American Telemedicine Association http://www.americantelemed.org/i4a/pages/index.cfm?pageid=3311

Review Paper:

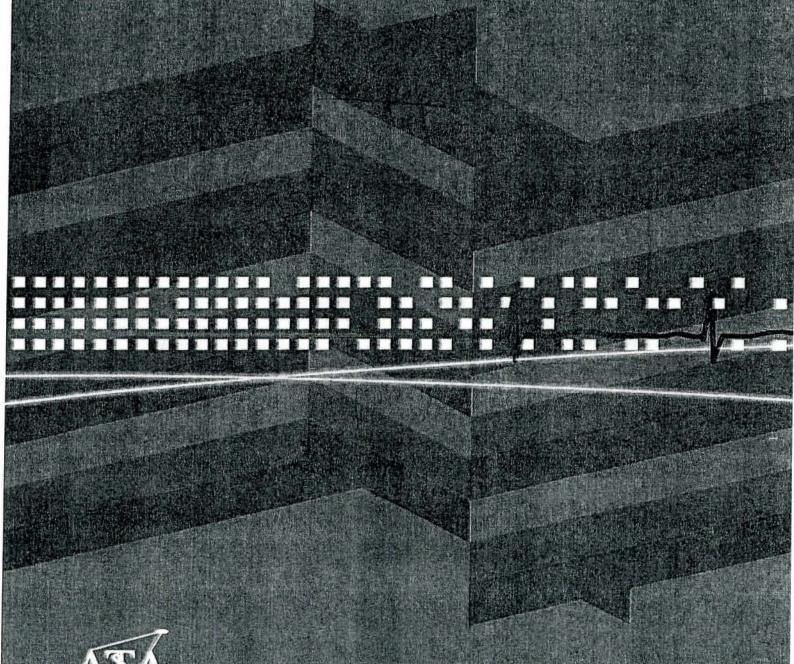
The Effectiveness of Telemental Health Applications: A Review http://publications.cpa-apc.org/media.php?mid=694&xwm=true

Telepsychiatry review: Canadian Psychiatric Assoc: Telepsychiatry: Guidelines and Procedures for Clinical Activities (2001): http://www.psychiatry.med.uwo.ca/ecp/info/toronto/telepsych/index.htm

Canadian Psychological Assoc: Ethical Guidelines for Psychologists Providing Psychological Services Via Electronic Media (2008):

http://www.cpa.ca/aboutcpa/boardofdirectors/committees/ethics/ethicalguidelines/

Practice Guidelines for Videoconferencing-Based Telemental Health October 2009



ATA
American Telemedicine Association
Quality Healthcare Through Telecommunications Technology

ATA AMERICAN TELEMEDICINE ASSOCIATION

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Practice Guidelines for Videoconferencing-Based Telemental Health

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ATA AMERICAN TELEMEDICINE ASSOCIATION

PRACTICE GUIDELINES FOR VIDEOCONFERENCING-BASED TELEMENTAL HEALTH

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1. PREAMBLE

The American Telemedicine Association (ATA), with members from throughout the United States and throughout the world, is the principal organization bringing together telemedicine practitioners, healthcare institutions, vendors and others involved in providing remote healthcare using telecommunications. ATA is a nonprofit organization that seeks to bring together diverse groups from traditional medicine, academia, technology and telecommunications companies, e-health, allied professional and nursing associations, medical societies, government and others to overcome barriers to the advancement of telemedicine through the professional, ethical and equitable improvement in health care delivery.

ATA has embarked on an effort to establish practice guidelines and technical standards for telemedicine to help advance the science and to assure the uniform quality of service to patients. They are developed by panels that include experts from the field and other strategic stakeholders and designed to serve as both an operational reference and an educational tool to aid in providing appropriate care for patients. The guidelines and standards generated by ATA will undergo a thorough consensus and rigorous review, with final approval by the ATA Board of Directors. Existing products will be reviewed and updated periodically.

The practice of medicine is an integration of both the science and art of preventing, diagnosing, and treating diseases. Accordingly, it should be recognized that compliance with these guidelines will not guarantee accurate diagnoses or successful outcomes. The purpose of these standards is to assist practitioners in pursuing a sound course of action to provide effective and safe medical care that is founded on current information, available resources, and patient needs. The practice guidelines and technical standards recognize that safe and effective practices require specific training, skills, and techniques, as described in each document. The resulting products are properties of ATA and any reproduction or modification of the published practice guideline and technical standards must receive prior approval by ATA.

If circumstances warrant, a practitioner may responsibly pursue a course of action different from the guidelines when, in the reasonable judgment of the practitioner, such action is indicated by the condition of the patient, restrictions or limits on available resources, or advances in information or technology subsequent to publication of the guidelines. Nonetheless, a practitioner who uses an approach that is significantly different from these guidelines is strongly advised to provide documentation, in the patient record, that is adequate to explain the approach pursued.

This guidelines document focuses on interactive video-conferencing based mental health services and telemental health/telehealth. The document is a companion document to ATA's Evidence-Based Practice for Telemental Health, an educational tool to aid practitioners in meeting these practice guidelines.

2. SCOPE

These guidelines are designed to serve as both a consensus operational best practice reference based on clinical empirical experience and an educational tool to aid practitioners in providing appropriate telehealth care for patients. The term telehealth indicates an inclusion of all health professionals, ranging from medicine to mental health, to educators, and to nurses. The use of telehealth also refers to the broader scope of e-health and distance education. Telemental health therefore, is the practice of mental health specialties at a distance. The practice of medicine is an integration of both the science and art of preventing, diagnosing, and treating diseases. It should be recognized that adherence to these guidelines will not guarantee accurate diagnoses or successful outcomes. The purpose of these guidelines is to assist practitioners in pursuing a sound course of action to provide effective and safe medical care that is founded on current information, available resources, and patient needs. The guidelines are not meant to be unbending requirements of practice and they are not designed to, nor should they be used, to establish a legal standard of care. The American Telemedicine Association advises against the use of these guidelines in litigation in which the clinical decisions of a practitioner are called into question.

The primary care or managing practitioner is responsible for the decision about the appropriateness of a specific procedure or course of action, considering all presenting circumstances. An approach that differs from the ATA guidelines does not necessarily imply that the approach varied from the standard of care. If circumstances warrant, a practitioner may responsibly pursue a course of action different from these guidelines when, in the reasonable judgment of the practitioner, such action is indicated by the condition of the patient, restrictions or limits on available resources, or advances in information or technology subsequent to publication of the guidelines. Nonetheless, a practitioner who uses an approach that is significantly different from these guidelines is advised to document in the patient record information to explain the approach pursued.

3. INTRODUCTION

Telemental health is one of the most active applications of telehealth rendered in the United States. Mental health is particularly suited to the use of advanced communication technologies and the internet for delivery of care. By using advanced communication technologies, mental health professionals are able to widen their reach to patients in a cost-effective manner, ameliorating the maldistribution of specialty care. The following Guidelines are designed to aid in the development and practice of coherent, effective, safe and sustainable telemental health practices. Establishing guidelines for telemental health improves clinical outcomes and promotes informed and reasonable patient expectations. When guidelines, position statements, or standards from a professional organization or society such as (but not limited to) the American Psychiatric Association¹, American Psychological Association² or National Association of Social Workers³ exist, it is advised that mental health professionals review these documents and incorporate them into practice.

Telemental health, like telemedicine, is an intentionally broad term referring to the provision of mental health and substance abuse services from a distance. This guideline focuses on two-way, interactive videoconferencing as the modality by which telemental health services are provided. In the future, additional sections will be added to address the use of the internet and other asynchronous or social relationship environments for interactions between mental health professionals and their patients and families. The use of other modern technologies such as virtual reality, electronic mail, remote monitoring devices (home telehealth store and forward technology), chat rooms, and web-based clients are not included in this version of the telemental health guidelines.

The ATA provides the core standards for telemedicine operations and provides overarching guidance for administrative, clinical, and technical standards (http://www.americantelemed.org/i4a/pages/index.cfm?pageid=3311). The Practice Guidelines for Videoconferencing-Based Telemental Health covers all areas, reflecting the basic component processes associated with most telemental health consultations. The telemental health guidelines give further detail to these core standards in relation to the specialty area. This section of the guideline contains requirements, recommendations, or actions that are identified by text containing the keywords "shall," "should," or "may." "Shall" indicates that it is required whenever feasible and practical under local conditions. "Should" indicates an optimal recommended action that is particularly suitable, without mentioning or excluding others. "May" indicates additional points that may be considered to further optimize the telemental health care process.

A glossary of terms, references to literature, and informative web sites are included at the end of the document.

4. APPLICATIONS FOR THE PRACTICE OF TELEMEDICINE

a. Clinical Applications

Currently, the point of delivery for telemental health services is as varied as the type of services that are being provided. Sites include hospitals, emergency rooms, community mental health centers, clinics, physician offices, nursing homes, assisted living facilities, prisons, schools, and patient homes. With careful planning, telemental health services can significantly impact the quality, timeliness, and availability of services in almost any mental health care delivery system. 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18

Scope of Services

Clinical applications of telemedicine encompass diagnostic, therapeutic, and forensic modalities across the lifespan. Common applications include pre-hospitalization assessment and post-hospital follow-up care, scheduled and urgent outpatient visits, medication management, psychotherapy and consultation.

Clinical Interviews

Telemental health interviews may be conducted between physicians in consultation, between a physician and another health care provider (e.g., a case manager, clinical nurse practitioner or physician assistant), or between mental health professionals and a patient. Other persons, such as another health care provider or family member, may also be present in a patient interview. The Telemental health interview may be an adjunct to periodic face-to-face contact or may be the only contact; and is typically supported by additional communications technologies such as faxed or emailed consultation information or transmission of an electronic medical record.

Emergency Evaluations

Many programs across the United States provide emergency evaluations by telemedicine successfully with minimal support staff and standards in place at the patient site. Emergency evaluations for psychiatric hospitalization can be conducted via telemedicine, and usually will require additional personnel to provide physical control of the environment and possibly the patient, for patient safety. Situations such as a patient who is suicidal, homicidal, or suffering from dementia or acute psychosis may require additional personnel in the room in addition to family members. In general, adequate support staff or responsible family members shall be present at the remote site in order to safely care for the patient. If other alternatives are immediately available to meet the patient's needs without transfer, services are preferred to be provided on-site and in-person. In the event that support staff and family members are not present, the telemental health provider **must** make a determination whether immediate intervention is deemed necessary for patient safety. Special attention shall be paid to the enhanced need for privacy and confidentiality and every attempt to preserve the patient's right to privacy shall be employed.

Case Management

In large distributed systems where multi-provider case management is needed, videoconferencing allows collaboration between all the involved clinical participants regardless of distance. Clinical treatment plans can be developed with input from experts who would not otherwise be available. 23, 24, 25, 26

Clinical Supervision

Supervision of trainees (residents or interns) at a distant site can facilitate both training and patient care. Supervision may be done either in real-time with the supervisor present via videoconferencing, or, when appropriate, by the use of store and forward technology.²⁷ Supervising practitioners shall comply with state and federal requirements for in-person supervision for residents and other practitioners whose positions are federally or state funded.

Non-Clinical Applications of Videoconferencing

Distance Learning

Videoconferencing technologies for education encompass a broad range of applications. These include, but are not limited to, point-to-point applications, such as physician-to-physician, physician-to-patient, or multipoint sessions such as a classroom setting where a teacher is at one site and the "pupils" are at other multiple remote sites. Distance learning modalities can be used for off-site mentoring to teach new techniques, or multi-site transmission of "grand rounds" conferences and continuing medical education (CME) events. These can be streamed via the internet or transmitted a number of ways including point-to-point circuits and the public Internet (if transmitting protected health information or other sensitive information via the public internet, AES encryption or a virtual private network (VPN) shall be used to secure the transmission). ^{28, 29} Distance education modalities can also be used for clinical care of patients, e.g. patient teaching regarding medications, therapies, or compliance with treatment plans.

Research

Telemedicine has been applied as an effective and reliable means of gathering research data from clinical populations. Telemental health enables multi-site and remote acquisition of information via in-person interviews or direct observation, as well as providing a simple means of archiving patient-provider interactions in video format for later scoring and evaluation. All requirements for human subjects research *shall* be applied to the use of telemental health for research purposes, especially when research involves the use of video or audio taping of the telemedicine conversations. Attention *shall* be paid to issues of confidentiality and informed consent, ensuring that patients who are involved in research trials via telemedicine understand consent is for the purposes of research and not for receiving care via telemental health. Efforts *shall* be made to ensure that patients receiving telemental health services are aware that telemedicine conversations will be recorded only with their consent.³⁰

Administration

Interactive two-way audio-visual communication between distant hospitals, clinics, schools, and justice centers is an effective means of providing administrative services and support and

helps organizations to achieve cost savings in large or geographically dispersed systems. Any discussion of protected health information **shall** be secured through use of a private, point-to-point circuit, an ISDN connection, or AES encryption or a virtual private network (VPN) **shall** be used for transmissions via the public internet.

5. GUIDELINES FOR THE PRACTICE OF TELEMENTAL HEALTH

Any organization or provider considering the use of telecommunications equipment for the purpose of providing mental health or substance abuse care to a remote site *shall* have in place prior to initiating such a service a set of Standard Operating Procedures or Protocols that *shall* include (but are not limited to) the following administrative, clinical and technical specifications.

The guidelines *shall* specifically describe roles, responsibilities (i.e., daytime and after-hours coverage), communication, and procedures around emergency issues. The degree of involvement of the telemental health provider will vary greatly between remote sites and be determined by legal issues, local resources, and staffing available to the clinic.³¹

a. Standard Operating Procedures/Protocols

Telemental health organizations and providers *shall* ensure that appropriate staff is available to meet patient and provider needs before, during, and after telemental health encounters of all types. Organizations and practitioners *shall* have agreements in place to assure licensing, credentialing, training, and authentication of patients and practitioners as appropriate and according to local, state, and national requirements.

Telemental health organizations and practitioners *shall be* aware of the enhanced requirements for privacy and confidentiality that is afforded to patients receiving mental health care. In the United States, additional state regulations for privacy, confidentiality and patient rights apply above and beyond requirements in place for general health care interactions.

Telemental health organizations and practitioners *shall* have billing and coding processes in place that share information across systems for the purposes of payment that do not risk exposure of mental health patients' personal health information.

Telemental health organizations and practitioners *shall* determine processes for documentation, storage, and retrieval of telemental health records. Specific descriptions *shall* be in place that address who can have access to the records. Most organizations institute a higher level of security on mental health patients' records than on other patients' records.

Patients receiving mental health and substance abuse services are afforded a higher degree of patients' rights as well as organizational responsibilities. Telemental health organizations *shall* be aware of these additional responsibilities and ensure that they are achieved.

Telemental health organizations and practitioners *shall* have in place policies and procedures that address all aspects of administrative, clinical, and technical components regarding the provision of telemental health and *shall* keep the policies and procedures updated on an annual basis or more often as needed.

Telemental health organizations and practitioners *shall* have in place a systematic quality improvement and performance management process that complies with any organizational, regulatory, or accrediting, requirements for outcomes management. The quality improvement indicators *shall* address the critical components of providing telemental health services and *shall* be used to make programmatic and clinical changes.

Telemental health organizations and practitioners *shall* comply with the specific consents to treat and for medication administration that apply to the area of mental health. Although no special consents are needed to use telemental health to serve patients, additional layers of consent are required during the course of treatment of persons with mental health conditions. Procedures *shall* be in place between organizations and telemental health practitioners for the purposes of obtaining and sharing consents for mental health treatment and services.

Telemental health professionals *shall* be aware of who has regulatory authority and any and all requirements (including those for liability insurance) that apply when practicing telehealth in another jurisdiction (eg. Across state lines), with particular attention to the additional responsibility that might apply in mental health encounters.

b. Clinical Specifications

- The telemedicine operation and its health professionals **shall** ensure that the standard of care delivered via telemedicine is equivalent to any other type of care that can be delivered to the patient/client, considering the specific context, location and timing, and relative availability of in-person care.
- Health professionals *shall* be responsible for maintaining professional discipline and clinical practice guidelines in the delivery of care in the telemedicine setting, recognizing that certain modifications may need to be made to accommodate specific circumstances.
- Any modifications to specialty specific clinical practice standards for the telemedicine setting *shall* ensure that clinical requirements specific to the discipline are maintained.
- Health professionals providing telemedicine services shall have the necessary education, training/orientation, and continuing education/professional development to insure they possess the necessary competencies for the provision of quality health services.

1. General Telemental Health Practice Issues

- Exam Inclusion Criteria/Scope: The inclusion of cases for a telemental health consult is at the discretion of the referring and consulting clinicians. There are no absolute contraindications to patients being assessed using telemental health.
- Consult Request Data: Information shall be available to the consulting practitioner that
 meets legal and regulatory requirements for referral and that provides supportive and data
 to the practitioner in preparation for evaluating the Telemental health patient, and for
 on-going patient management. Procedures shall be in place between
 organizations and practitioners for sharing patient mental health information.
- Cultural Competency: The clinician practicing telemental health should have cultural competency in the population he or she is serving at a distance.^{33, 34}
 Cultural influences may be different between the patient and the practitioner sites and means of assessing the difference and notifying the practitioner shall be in place.
- Cognitive Testing: Cognitive testing may be provided via telemedicine but may need to be modified for use via video. Organizations administrating cognitive testing via videoconferencing shall be aware of the properties of the individual test instrument, how it may be impacted by videoconferencing, and potential needed modifications. Computer-based testing may be provided at the patient location and results securely transmitted to the telemental health practitioner for scoring and interpretation. On-site testers are appropriate to be used for cognitive testing and telemental health organizations shall have in place arrangements for the use of ancillary staff to administer cognitive testing and the sharing of results with the telemental health provider. 24,35,36,37,38,39,40
- Videoteleconferencing (VTC): The following guidelines are recommended to
 ensure the safety of patients and also accurate diagnosis, appropriate intervention,
 and supportive ongoing care.

All persons in the exam room at both sites *shall* be identified to all participants prior to the consultation room. Disclosing persons who are attending the consultation *shall* be done by panning each end of the consultation with the video camera or at a minimum, announcing the presence of individuals present and asking the patient's permission for additional persons to be in the room. Permission from the patient is not required if safety concerns mandate the presence of another individual or if the patient is being legally detained, but should be encouraged by the practitioner.

Clinical History/Results: The sharing of clinical history and results shall comply with established legal and regulatory requirements. Telemental health organizations and practitioners shall have agreements in place that outline the procedure for securely sharing such clinical history and results. Laboratory or

procedure results *should* be reviewed by the telemental health consultant via remote health record access or facsimile. Telemental health consultants need to have access to relevant clinical data as if the patient were being seen in person. Electronic prescribing *should* be used where available. 40, 41, 42, 43

Reports: As with any consultation, there shall be a traceable record of the teleconsultation at both the referring and consulting sites. The practitioner at a minimum shall have documentation including pertinent and required aspects of the clinical encounter, and the patient site shall have documentation that a telemental health visit occurred with the patient. The consultant's opinion and any services that were ordered or performed shall also be documented in the patient's medical record and communicated by written report to the requesting physician or other appropriate source (e.g., physician assistant, nurse practitioner, doctor of chiropractics, physical therapist, occupational therapist, speech-language therapist, psychologist, social worker, lawyer, insurance company) as required by professional conduct, legal, or regulatory requirements. Recommended language for the consultant includes "Based on the video images and history provided, my impression is as follows." Verbal communication with referring practitioners, or other pertinent entities may be given and written records of the interaction shall be kept according to legal and regulatory requirements at least at one site (referring and/or consulting). Reports may be faxed, mailed or electronically sent after the interaction has ended and should be done using secure methods. A consultant report shall include at a minimum the diagnosis and/or differential diagnoses, a summary of the findings, and recommended management.

Psychotherapy: Standard practice guidelines for therapy shall direct psychotherapy services within the telemedicine setting. Evidence-based practice and empirically supported treatments shall be followed and adapted by the telemental health practitioner as appropriate for videoconferencing. Persons engaged in providing psychotherapy services shall be aware of their professional organizations positions on telemental health and incorporate the professional association standards whenever possible.

Medication Management: Expert pharmacotherapy is the most frequently requested telemental health service^{44, 45} and various methods have been employed, including: a) the telepsychiatrist consults to the referring primary care or managing physician (PCP) who prescribes the medications; b) the telepsychiatrist works with a mid-level professional at the patient site who writes the prescriptions; and c) the telepsychiatrist directly prescribes. In this last scenario, clear procedures *shall* be established and communicated to all parties regarding the method for obtaining initial prescriptions and refills and reporting adverse effects. Pharmacotherapy *shall* comply with the APA and AACAP⁴⁶ practice parameters.

2. Psychiatric Emergencies

Psychiatric emergencies can be experienced in a telehealth visit similar to an inperson visit. Provisions for routine or emergent local medical management *shall* be included in any local operating procedure or protocol. The following specific recommendations were adapted from a previous set of published clinical guidelines on emergency telepsychiatry.⁴⁷

- a. Administrative Issues: A patient site assessment shall be undertaken that includes obtaining information on local regulations and emergency resources, identification of potential local collaborators to help with emergency management. Emergency protocols shall be created for all telepsychiatry clinics with clear explanation of roles and responsibilities in emergency situations, determination of outside clinic hours emergency coverage, and guidelines for determining at what point other staff and resources should be brought in to help manage emergency situations.
- b. Legal Issues: Clinicians shall be familiar with local civil commitment regulations and have arrangements where possible to work with local staff to initiate/assist with civil commitments.
- c. General Clinical Issues: Clinicians shall be aware of the impact of telepsychiatry on provider's perception of control over the clinical interaction, and how this might impact provider's management. Clinicians shall be aware of safety issues with patients displaying strong affective or behavioral states upon conclusion of a session, and how patients may then interact with remote site staff.

3. Special Groups

- a. Children: Children generally respond very positively to videoconferencing consultations. 48 VTC procedures for the evaluation and treatment of youth shall follow the same guidelines presented for adult with modifications to consider the developmental status of youth, such as motor functioning, speech and language capabilities, and relatedness. When legally required, families shall be informed when a telehealth appointment is scheduled for their child, in order to prepare their child for a VTC appointment.
 - a. The room at the originating site (patient site) should be large enough to include the youth and a parent, and one to two other individuals and to allow the camera to scan an area large enough to adequately observe children's motor skills as they move about the room, play, and separate from their parents.^{49, 50}
 - b. A table should be available to provide a surface for the child to draw or play while the parent relates the history, but the table should not interfere with communication or viewing the youth's motor skills. Some simple toys should be provided both to occupy the child and to

- allow assessment of skills and *should* be selected based on age-appropriateness and child safety standards.
- c. The care and the clinical procedures used with children should follow the practice parameters developed by the American Academy of Child and Adolescent Psychiatry.
- b. Elderly Populations: Sensory deficits, especially visual and auditory, can impair the ability to interact over a videoconference connection. Clinics shall consider the use of technologies that can help with visual or auditory impairment. The geriatric patient often has multiple medical problems, many of which affect cognitive/behavioral state, require appropriate laboratory, radiologic, and other diagnostic procedures. The inclusion of family members should be undertaken as clinically appropriate and with the permission of the patient. Interviewing techniques shall be appropriate for a patient who may be cognitively impaired, or find it difficult to adapt to the technology.
- c. Rural Populations: Clinicians working with patients from rural or frontier issues shall be aware of issues unique to working with rural populations via telehealth.
 - a. Clinicians shall discuss firearm ownership, safety, sanctioned use of firearms and meaning of firearms to patients in rural areas. Clinicians shall be prepared to negotiate with patients over firearm disposition, and consider involvement of patients' families as appropriate.
 - Clinicians shall be sensitive of impact of disclosures made during emergency management on patient confidentiality and relationships in small communities.
 - c. Clinicians shall consider including families in emergency treatment situations where possible and clinically appropriate, while also assessing and be attentive to exacerbation of family tensions in small communities.
 - d. Clinicians shall assess substance issues, be familiar with local resources for substance use assessment and treatment, and be prepared to play a more active role in substance use treatment.^{52, 53}

4. Ethical Considerations

Although telemedicine is not a practice in and of itself, practicing at a distance creates a unique relationship with the patient that requires attention to and adherence to professional ethical principles. An organization or health professional that adheres to ethical telemedicine principles *shall:*

- a. Incorporate organizational values and ethics statements into the administrative policies and procedures for telemedicine
- Be aware of medical and other professional discipline codes of ethics when using telemedicine

- c. Inform the patient of their rights and responsibilities when receiving care at a distance (through telemedicine) including the right to refuse to use telemedicine
- d. Provide patients and providers with a formal process for resolving ethical questions and issues that might arise as a result of a telemedicine encounter
- e. Eliminate any conflict of interest to influence decisions made about, for, or with patients who receive care via telemedicine.

c. Technical Specifications

Videoconferencing is a communications tool that has made possible the recreation of clinical, consultative, and educational settings regardless of the geographic location of participants. A wide array of equipment and standards-based software is available that can greatly enhance the capabilities and usefulness of the videoconferencing system. Telemental health users where available, practical and affordable **should** be able to, when cost-effective:

- · Display static pictures, diagrams, or objects.
- View and share a computer desktop or applications.
- Play videos or CDs so people at other locations can see and hear them.
- Record meetings when clinically appropriate and with patient permission.
- Share information on a common white board or via computer files.

Other desirable features of a videoconferencing system include:

- · Ease of use with minimum operator training.
- Have remote camera control so that a clinician can pan, tilt, and zoom (PTZ) the camera on the patient end for close-ups.
- Easy-to-understand visual cues to give user feedback on features selected.
- On screen messages to notify the user of such conditions as loss of far end video, incomplete or dropped connections, mute/unmute etc.
- Option to view the picture sent as well as the picture received simultaneously (known as 'picture-in-picture' or PIP).
- Audio at 7 kHz full duplex with echo cancellation (capable of eliminating room return audio echo), with easy-to-use mute function and volume adjustment.
- Standard computer and peripheral ports for transmission of data.
- · Ability to operate at a bandwidth of 384 Kbps or higher.
- Capacity for software upgrades as improvements become available.

Currently, most videoconferencing takes place via digital telephone lines (ISDN) or over TCP/IP (utilizing a local area network (LAN), wide area network (WAN), or broadband Internet connection). Low bandwidth videophones are often found in home care programs, or in situations or areas where higher bandwidth connections are either unavailable or cost prohibitive. Satellite communications are increasingly being used in remote areas, whether for Internet connectivity, or direct satellite telephony. Conferencing can be established between just two locations (called point-to-point) or among a number of sites simultaneously (called multi-point).

High quality microphones and speakers ensure effective aural communication and *should* be used in telemental health consultations to ensure accurate interpretation of the patient's and provider's spoken communication. High-quality audio is essential to the success of telemental health services, capturing the nuances of conversation that are often vital in making appropriate diagnoses. Microphone type and placement are extremely important, as are the acoustical properties of the room used. Most flat "conference-style" microphones are adequate to pick up sounds around a table or in a room, as long as the microphones are placed on a hard, flat surface at desk or table-top level. Many will also work well if placed on a flat wall at about head level for a seated person. If no flat surface is available, or if patients may be active or agitated, an omni-directional microphone can be hung from the center of the ceiling. "Quiet" rooms (those with carpeting, soft furniture, acoustical treatments, or other sound absorbing characteristics) allow for better intelligibility of transmitted speech. 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66

1. Transmission Speed and Bandwidth

Most telemental health programs use systems that transmit data at a minimum of 384 Kbps. Transmission speed *shall* be the minimum necessary to allow the smooth and natural communication pace necessary for clinical encounters. Research into the quality of data transmission has shown that viewers perceive a marked difference in quality between 128 and 384 Kbps, but report less noticeable difference between 384 and 768 Kbps, although the proportionate cost increase is often much larger at the higher transmission speed. The use of lower bandwidths is necessary in some locations due to lack of or expense of broadband access and the need to provide services to disparate and/or remote populations. The use of the Internet has gained popularity in recent years as a medium by which providers and patients can bridge the digital gap and remain connected.⁶⁷

2. Image Storage, Retrieval and Transmission

- a. Security: For telemental services provided within the United States, the United States Health Insurance Portability & Accountability Act (HIPAA)⁶⁸ and state privacy requirements shall be followed at all times to protect patient privacy. Privacy requirements in other countries shall be followed for telemental services provided in those countries. Telemental health services being provided across political boundaries shall be in conformance with privacy requirements in both locations. Network and software security protocols to protect privacy and confidentiality shall be provided as well as appropriate user accessibility and authentication protocols. Measures to safeguard data against intentional and unintentional corruption shall be in place during both storage and transmission.
- b. Encryption: Within the United States, HIPAA requires that encryption (128 bit) of Electronic Protected Health Information shall be addressed.⁶⁹ Consistent with HIPAA and good practice, video sessions shall be secured to the greatest practical extent.

- c. Resolution: The resolution of the display monitor should match as closely as possible the resolution of the acquired image being displayed, or the originally acquired image resolution should be accessible using zoom and pan functions.
- d. Interoperability: Interoperability of videoconferencing equipment has improved significantly in the past few years through a number of standards that have arisen in the industry. Most telecommunications standards are established by the International Telecommunications Union (ITU), an agency of the United Nations. Equipment shall be based on these standards which allow successful conferencing regardless of platform or manufacturer. The ITU standards that shall be used comprise the H (video), G (audio) and T (data) series.
- e. Videoconferencing with Personal Computers: Computers utilized for VTC shall comply with all facility, state, and federal regulations.
- f. TCP/IP: There are continuing innovations in software protocols designed to assure consistently high quality signals (called "quality of service" or QOS) for videoconferencing systems using IP networks. The use of these protocols (which are usually implemented in the videoconferencing system itself) can significantly improve the quality of transmission over an IP network.
- g. Integrated Services Digital Network (ISDN): Videoconferencing over ISDN is governed by the H.320 ITU standard, which includes a number of associated standards to control video, audio, and data flow. ISDN connections usually use a multiplexer (MUX) to aggregate 2-6 individual phone lines into a single high-bandwidth connection. As each line transmits at 64 kbps, a minimum of 6 lines should be used to ensure transmission at least at 384 kbps.

3. Physical Location/Room Requirements

- a. Room Set-up: During a telemental health session, both locations shall be considered a patient examination room regardless of a room's intended use. Both sites shall be appropriately designed with audio and visual privacy and additionally the originating site shall have the ability to accommodate posture and movement visualization by the provider. The ability to view written or drawn material should also be available. Rooms shall be designated private for the duration of the VTC and no unauthorized access shall be permitted. The organization shall take every precaution to ensure the privacy of the consult and the confidentiality of the patient. All persons in the exam room at both sites shall be identified to all participants prior to the consultation and the patient's permission shall be obtained for any visitors or clinicians to be present during the session.
- b. Room Lighting: The room in which videoconferencing is used shall be well lit (150 ft candles at the patient is recommended), preferably using light

sources as close to day light as possible (i.e., fluorescent day-light or full spectrum bulbs rather than incandescent). The room *shall* be comfortably lit for the patient and lit well enough for the provider to see the patient without shadows falling on the patient's face or other areas where clinical data is being displayed (such as lower extremities, hands, etc.). The lighting of the provider's space *shall* meet the same requirements in that the patient must be able to see the face of the provider with no shadowing. Daylight is often the softest and more comfortable light for the patient to view the clinician.

- c. Backdrop: Backdrops behind the patient and provider should be clean and plain in color and not full of distractions such as office papers, book shelves, etc. Blue is an optimum color for backdrops as blue neither reflects or absorbs light, is a calming color, and helps to accentuate the area of interest.
- d. Ergonomic Considerations: The comfort of the mental health professional undertaking the consultations should be considered to prevent fatigue and computer vision syndrome problems common with increased computer interactions. Gaze Angle: Gaze angle is the angle between the near participant's camera and where the near participant looks at the onscreen far participant (eye contact). The vertical location of the far participant on the screen will affect gaze angle. Gaze angles of approximately 5 to 7 degrees are imperceptible to most persons 1,1. Gaze angle should be as small as practical.

d. Administrative Issues

- 1. Organizations shall ensure the technical readiness of the telehealth equipment and the clinical environment.⁷² Organizations providing telehealth services shall have processes in place to ensure the safety and effectiveness of equipment through on-going support and maintenance.^{73, 74} Organizations providing telehealth services shall have policies and procedures in place to ensure the physical security of telehealth equipment and the electronic security of data.⁷⁵ Organizations shall have appropriate redundant systems and appropriate recovery procedures in place that ensure availability of the network for critical connectivity. Organizations shall ensure compliance with all relevant safety laws, regulations, and codes for technology and technical safety.^{xiv, xv} Organizations shall have infection control policies and procedures in place for the use of telehealth equipment and patient peripherals.
- 2. Policy Related Steps to Optimize Telemental Health Practices

It is critical to develop policies and procedures to ensure consistent implementation of telemental health program functions. Key policies that **shall** be addressed include:

- Release of information and informed consent
- Identifying all required patient information for a referral/consultation

- A reliable process for communicating findings after consults
- Ensuring privacy and confidentiality
- Intake procedures and screening
- · Staff roles and responsibilities
- · Transmission of patient data
- Use of electronic medical records
- · Appointment scheduling; synchronizing schedules at all sites
- Transmission of prescriptions, lab orders and progress notes
- Evaluation and measurement of patient outcomes
- Quality improvement
- Safety
- · Licensing, liability and malpractice insurance
- Continuous training

APPENDIX A: Existing Digital Imaging Standards

This is not meant to be a comprehensive list of all existing standards, but rather provides a description of the standards most relevant to the practice of telemental health.

ITU-T: The International Telecommunications Union has established a series of standards (H.300) for VTC. It includes such sections as the H.320 series for circuit-switched, n x 64 (i.e., ITU-T); the H.323series: packet-switched/network, Internet Protocol; and the H.324: Plain Old Telephone Service (POTS).

Session Initiation Protocol (SIP): The Internet Engineering Task Force RFC 3261 also applies to VTC. SIP is a text-based protocol for initiating interactive communication sessions between users, including voice, video, chat, and virtual reality.

JPEG/TIF/WAV: Some of the most common compression methods used for still images include the following. The method used depends on the achievable compression ratio and the number and types of artifacts created during compression. Lossless compression allows for the reconstruction of the exact original data prior to compression without any loss of information. Lossy compression refers to methods that lose data once the image has been compressed and uncompressed. The level of compression and method used affect the amount of data loss and whether or not it is visually perceptible. The type and level of compression may vary depending on the type of exam. Different compression algorithms will achieve different compression ratios with varying degrees of artifacts. The choice of compression method and level should be reviewed periodically for each image and exam type, to insure that artifacts are not perceptible. It should be noted that lossy compression can affect the colors in an image.

- JPEG (2000): JPEG 2000 uses wavelet technology that allows an image to be retained without any distortion or loss. [71] File extensions for JPEG 2000 are either .jp2 or .j2c (traditional JPEG is either .jpg or .jpeg).
- TIF: Tagged Image File Format used for formatting and compressing images. It can be lossy or lossless. The file extension TIF is .tiff or .tif.
- WAV: A method of compression using wavelets transforms (mathematical functions that divide data based on frequency components). There are a variety of file extensions depending on the wavelet method used. It can be lossy or lossless.

HL7: Health Level Seven is one of several American National Standards Institute (ANSI) Standards Developing Organizations (SDOs) operating in the healthcare arena. Health Level Seven's domain is clinical and administrative data.⁷⁶

US HIPAA: The United Sates Health Insurance Portability & Accountability Act of 1996 (Public Law 104-191) calls for improved efficiency in healthcare delivery by standardizing electronic data interchange, and the protection of confidentiality and security of health data through setting and enforcing standards. The has rules for:

Standardization of electronic patient health, administrative and financial data

- Unique health identifiers for individuals, employers, health plans and health care providers
- Security standards protecting the confidentiality and integrity of "individually identifiable health information," past, present or future.

JCAHO: The Joint Commission evaluates and accredits nearly 15,000 health care organizations and programs in the United States. An independent, not-for-profit organization, The Joint Commission is a standards-setting and accrediting body in health care. Since 1951, The Joint Commission has maintained state-of-the-art standards that focus on improving the quality and safety of care provided by health care organizations. The Joint Commission's comprehensive accreditation process evaluates an organization's compliance with these standards and other accreditation requirements. Joint Commission accreditation is recognized nationwide as a symbol of quality that reflects an organization's commitment to meeting certain performance standards. To earn and maintain The Joint Commission's Gold Seal of ApprovalTM, an organization must undergo an on-site survey by a Joint Commission survey team at least every three years. (Laboratories must be surveyed every two years.)

APPENDIX B: Telemedicine/Telehealth Glossary

The following is a list of terms and definitions that are commonly used in telemedicine and telehealth. The list was assembled for the purpose of encouraging consistency in employing these terms in ATA related documents and resource materials. The list is not all-inclusive and may be augmented by specialty areas as deemed appropriate.

Application Service Provider (ASP): An ASP hosts a variety of applications on a central server. For a fee, customers can access the applications that interest them over secure Internet connections or a private network. This means that they do not need to purchase, install and maintain the software themselves; instead they rent the applications they need from their ASP. Even new releases, such as software upgrades, are generally included in the price.

Asynchronous: This term is sometimes used to describe store and forward transmission of medical images or information because the transmission typically occurs in one direction in time. This is the opposite of synchronous (see below).

Authentication: A method of verifying the identity of a person sending or receiving information using passwords, keys and other automated identifiers.

Bandwidth: A measure of the information carrying capacity of a communications channel; a practical limit to the size, cost, and capability of a telemedicine service.

Bluetooth Wireless: Bluetooth is an industrial specification for wireless personal area networks (PANs). Bluetooth provides a way to connect and exchange information between devices such as mobile phones, laptops, PCs, printers, digital cameras and video game consoles over a secure, globally unlicensed short-range radio frequency. The Bluetooth specifications are developed and licensed by the Bluetooth Special Interest Group.

Broadband: Communications (e.g., broadcast television, microwave, and satellite) capable of carrying a wide range of frequencies; refers to transmission of signals in a frequency-modulated fashion, over a segment of the total bandwidth available, thereby permitting simultaneous transmission of several messages.

Clinical Information System: Relating exclusively to the information regarding the care of a patient, rather than administrative data, this hospital-based information system is designed to collect and organize data.

CODEC: Acronym for coder-decoder. This is the videoconferencing device (e.g., Polycom, Tandberg, Sony, Panasonic, etc) that converts analog video and audio signals to digital video and audio code and vice versa. CODECs typically compress the digital code to conserve bandwidth on a telecommunications path.

Compressed video: Video images that have been processed to reduce the amount of bandwidth needed to capture the necessary information so that the information can be sent over a telephone network.

Computer-based Patient Record (CPR): An electronic form of individual patient information that is designed to provide access to complete and accurate patient data.

Data Compression: A method to reduce the volume of data using encoding to reduce image processing, transmission times, bandwidth requirements, and storage space requirements. Some compression techniques result in the loss of some information, which may or may not be clinically important.

Diagnostic Equipment (Scopes, Cameras & Other Peripheral Devices): A hardware device not part of the central computer (e.g. digitizers, stethoscope, or camera) that can provide medical data input to or accept output from the computer.

Digital Camera (still images): A digital camera is typically used to take still images of a patient. General uses for this type of camera include dermatology and wound care. This camera produces images that can be downloaded to a PC and sent to a provider/consultant over a network.

Digital Imaging and Communication in Medicine (DICOM): A standard for communications among medical imaging devices; a set of protocols describing how images are identified and formatted that is vendor-independent and developed by the American College of Radiology and the National Electronic Manufacturers Association.

Disease Management: A continuous coordinated health care process that seeks to manage and improve the health status of a carefully defined patient population over the entire course of a disease (e.g., CHF, DM) The patient populations targeted are high-risk, high-cost patients with chronic conditions that depend on appropriate care for proper maintenance.

Distance Learning: The incorporation of video and audio technologies, allowing students to "attend" classes and training sessions that are being presented at a remote location. Distance learning systems are usually interactive and are a tool in the delivery of training and education to widely dispersed students, or in instances in which the instructor cannot travel to the student's site.

Distant Site: The distant site is defined as the telehealth site where the provider/specialist is seeing the patient at a distance or consulting with a patient's provider. (CMS) Others common names for this term include – hub site, specialty site, provider/physician site and referral site. The site may also be referred to as the consulting site.

Document Camera: A camera that can display written or typed information (e.g., lab results), photographs, graphics (e.g., ECG strips) and in some cases x-rays.

Electronic Data Interchange (EDI): The sending and receiving of data directly between trading partners without paper or human intervention.

Electronic Patient Record: An electronic form of individual patient information that is designed to provide access to complete and accurate patient data, alerts, reminders, clinical decision support systems, links to medical knowledge, and other aids.

Encryption: A system of encoding data on a Web page or e-mail where the information can only be retrieved and decoded by the person or computer system authorized to access it.

Firewall: Computer hardware and software that block unauthorized communications between an institution's computer network and external networks.

Full-motion Video: This describes a standard video signal that allows video to be shown at the distant end in smooth, uninterrupted images.

Guideline: A statement of policy or procedures by which to determine a course of action, or give guidance for setting standards (Loane & Wootton, 2002).

H.320: This is the technical standard for videoconferencing compression standards that allow different equipment to interoperate via T1 or ISDN connections.

H.323: This is the technical standard for videoconferencing compression standards that allow different equipment to interoperate via the Internet Protocol (see below).

H.324: This is the technical standard for videoconferencing compression standards that allow different equipment to interoperate via Plain Old Telephone Service (POTS).

Health Level-7 Data Communications Protocol (HL-7): This communication standard guides the transmission of health-related information. *HL7* allows the integration of various applications, such as bedside terminals, radiological imaging stations, hospital census, order entries, and patient accounting, into one system.

HIPAA: Acronym for Health Information Portability Act.

Home Health Care & Remote Monitoring Systems: Home health care is care provided to individuals and families in their place of residence for promoting, maintaining, or restoring health; or for minimizing the effects of disability and illness, including terminal illness. In the Medicare Current Beneficiary Survey and Medicare claims and enrollment data, home health care refers to home visits by professionals including nurses, physicians, social workers, therapists, and home health aides. Using remote monitoring and interactive devices allows the patient to send in vital signs on a regular basis to a provider without the need for travel.

Informatics: The use of computer science and information technologies to the management and processing of data, information and knowledge.

Integrated Services Digital Network (ISDN): This is a common dial-up transmission path for videoconferencing. Since ISDN services are used on demand by dialing another ISDN based device, per minute charges accumulate at some contracted rate and then are billed to the site placing the call. This service is analogous to using the dialing features associated with a long distance telephone call. The initiator of the call will pay the bill. ISDN permits connections up to 128Kbps.

Interactive Video/Television: This is analogous with video conferencing technologies that allow for two-way, synchronous, interactive video and audio signals for the purpose of delivering telehealth, telemedicine or distant education services. It is often referred to by the acronyms – ITV, IATV or VTC (video teleconference).

Internet Protocol: The Internet Protocol (IP) is the protocol by which data is sent from one computer to another on the Internet. Each computer on the Internet has at least one address that uniquely identifies it from all other computers on the Internet. IP is a connectionless protocol, which means that there is no established connection between the end points that are communicating. The IP address of a videoconferencing system is its phone number.

Interoperability: Interoperability refers to the ability of two of more systems* to interact with one another and exchange information in order to achieve predictable results (*refers to more than technical systems) (Bergman, Ulmer and Sargious, 2001). There are three types of interoperability: human/operational; clinical; and technical (Canadian Society for Telehealth, 2001). Interoperability refers to the ability of two or more systems (computers, communication devices, networks, software, and other information technology components) to interact with one another and exchange data according to a prescribed method in order to achieve predictable results (ISO ITC-215).

ISDN Basic Rate Interface (BRI): This is an ISDN interface that provides 128k of bandwidth for videoconferencing or simultaneous voice and data services. Multiple BRI lines can be linked together using a multiplexer (see below) to achieve higher bandwidth levels. For instance, a popular choice among telehealth networks is to combine 3 BRI lines to provide 384k of bandwidth for video-conferencing. It should be noted that BRI services are not available in some rural locations. One should check with their telecommunications providers on the availability of BRI service before ordering videoconferencing equipment that uses this type of service.

ISDN Primary Rate Interface (PRI): This is an ISDN interface standard that operates using 23, 64k channels and one 64k data channel. With the proper multiplexing equipment the ISDN PRI channels can be selected by the user for a video call. For instance if the user wants to have a videoconference at 384k of bandwidth then they can instruct the multiplexer to use channels 1 through 6 (6 x 64k = 384k). This is important because the user typically pays charges based on the number of 64k channels used during a videoconference. The fewer channels used to obtain a quality video signal the less expensive the call.

JCAHO: Acronym for Joint Commission on Accreditation of Healthcare Organizations.

Lossless: A format of data compression, typically of an order of less than 2:1, in which none of the original data information is lost when the image is reproduced.

Lossy: A process of data compression at a relatively high ratio, which leads to some permanent loss of information upon reconstruction.

Medical/ Nursing Call Center: A call center is a centralized office that answers incoming telephone calls from patients. Such an office may also respond to letters, faxes, e-mails and similar written correspondence. Usually staffed by nurses, call centers provide basic health information and instructions to callers but do not provide an official diagnosis of conditions or prescribe medicine. Call centers act as an initial triage point for patients.

Mobile Telehealth: The provision of health care services with the assistance of a van, trailer, or other mobile unit in which the health care provider might provide patient services at a distance from a normal medical facility. Services may also be provided through mobile technologies that allow a mobile vehicle equipped with medical technologies to attach to an existing health care facility, such as mobile CT, MRI, or teledentistry.

Multiplexer (MUX): A device that combines multiple inputs (ISDN PRI channels or ISDN BRI lines) into an aggregate signal to be transported via a single transmission path.

Multi-point Control Unit (MCU): A device that can link multiple videoconferencing sites into a single videoconference. An MCU is also often referred to as a "bridge".

Multi-point Teleconferencing: Interactive electronic communication between multiple users at two or more sites which facilitates voice, video, and/or data transmission systems: audio, graphics, computer and video systems. Multi-point teleconferencing requires a MCU or bridging device to link multiple sites into a single videoconference.

Network Integrators: Organizations specializing in the development of software and related services that allows devices and systems to share data and communicate to one another.

Originating Site: The originating site is where the patient and/or the patient's physician is located during the telehealth encounter or consult (CMS). Other common names for this term include – spoke site, patient site, remote site, and rural site.

Patient Exam Camera (video): This is the camera typically used to examine the general condition of the patient. Types of cameras include those that may be embedded with set-top videoconferencing units, handheld video cameras, gooseneck cameras, camcorders, etc. The camera may be analog or digital depending upon the connection to the videoconferencing unit.

Peripheral Devices: Any device that is attached to a computer externally, i.e. Scanners, mouse pointers, printers, keyboards; and clinical monitors such as pulse oximeters, weight scales, are all examples of this.

Pharmacy Solutions: The use of electronic information and communication technology to provide and support comprehensive pharmacy services when distance separates the participants.

POTS: Acronym for Plain Old Telephone Service.

Presenter (Patient Presenter): Telehealth encounters require the distant provider to perform an exam of a patient from many miles away. In order to accomplish that task an individual with a clinical background (e.g., LPN, RN, etc) trained in the use of the equipment must be available at the originating site to "present" the patient, manage the cameras and perform any "hands-on" activities to successfully complete the exam. For example, a neurological diagnostic exam usually requires a nurse capable of testing a patient's reflexes and other manipulative activities. It should be noted that in certain cases, such as interview based clinical consultations such as Telemental Health or Nutrition Services, that a licensed practitioner such as an RN or LPN, might not be necessary, and a non-licensed provider such as support staff, could provide telepresenting functions.

RHIO: Regional Health Information Organization (RHIO) and Health Information Exchange (HIE) are often used interchangeably. RHIO is a group of organizations with a business stake in improving the quality, safety, and efficiency of healthcare delivery. RHIOs are the building blocks of the proposed National Health Information Network (NHIN) initiative at the Office of the National Coordinator for Health Information Technology (ONCHIT).

Router: This device provides an interface between two networks or connects sub-networks within a single organization. It routes network traffic between multiple locations and it can find the best route between any two sites. For example, PCs or H.323 videoconferencing devices tell the routers where the destination device is located and the routers find the best way to get the information to that distant point.

Standard: A statement established by consensus or authority, that provides a benchmark for measuring quality, that is aimed at achieving optimal results (NIFTE Research Consortium, 2003).

Store and Forward (S&F): S&F is a type of telehealth encounter or consult that uses still digital images of a patient for the purpose of rendering a medical opinion or diagnosis. Common types of S&F services include radiology, pathology, dermatology and wound care. Store and forward also includes the asynchronous transmission of clinical data, such as blood glucose levels and electrocardiogram (ECG) measurements, from one site (e.g., patient's home) to another site (e.g., home health agency, hospital, clinic).

Switch: A switch in the videoconferencing world is an electrical device that selects the path of the video transmission. It may be thought of as an intelligent hub (see hub above) because it can be programmed to direct traffic on specific ports to specific destinations. Hub ports feed the same information to each device.

Synchronous: This term is sometimes used to describe interactive video connections because the transmission of information in both directions is occurring at exactly the same period.

System/Network Integration: The use of software that allows devices and systems to share data and communicate to one another.

T1/DS1: A digital carrier or type of telephone line service offering high-speed data, voice, or compressed video access in two directions, with a transmission rate of 1.544 Mbps.

T3/DS3: A carrier of 45 Mbps.

TCP/IP (Transmission Control Protocol/Internet Protocol): The underlying communications rules and protocols that allow computers to interact with each other and exchange data on the Internet.

Telecommunications Providers: An entity licensed by the government (the Federal Communications Commission in the U.S.) to provide telecommunications services to individuals or institutions.

Teleconferencing: Interactive electronic communication between multiple users at two or more sites which facilitates voice, video, and/or data transmission systems: audio, graphics, computer and video systems.

Telehealth and Telemedicine: Telemedicine and telehealth both describe the use of medical information exchanged from one site to another via electronic communications to improve patients' health status. Although evolving, telemedicine is sometimes associated with direct patient clinical services and telehealth is sometimes associated with a broader definition of remote healthcare services.

Telematics: The use of information processing based on a computer in telecommunications, and the use of telecommunications to permit computers to transfer programs and data to one another.

Telementoring: The use of audio, video, and other telecommunications and electronic information processing technologies to provide individual guidance or direction. An example of this help may involve a consultant aiding a distant clinician in a new medical procedure.

Telemonitoring: The process of using audio, video, and other telecommunications and electronic information processing technologies to monitor the health status of a patience from a distance.

Telepresence: The method of using robotic and other instruments that permit a clinician to perform a procedure at a remote location by manipulating devices and receiving feedback or sensory information that contributes to a sense of being present at the remote site and allows a satisfactory degree of technical achievement. For example, this term could be applied to a surgeon using lasers or dental hand pieces and receiving pressure similar to that created by touching a patient so that it seems as though s/he is actually present, permitting a satisfactory degree of dexterity.

Teleradiology and Picture Archiving and Communications Systems (PACs): The electronic transmission of radiological images, such as x-rays, CTs, and MRIs, for the purposes of interpretation and/or consultation. Digital images are transmitted over a distance using standard telephone lines, satellite connections, or local area networks (LANs). Teleradiology also is beginning to include the process of interfacing with the hospital information systems/radiology information systems (HIS/RIS) in the transport of digital images. PACs provide centralized storage and access to medical images over information systems.

Ultrasound: A device that uses high-frequency sound waves to examine structures inside the body. It can rapidly detect tumors and other abnormalities, often right in the physician's office.

Universal Service Administrative Company (USAC): The Universal Service Administrative Company administers the Universal Service Fund (USF), which provides communities across the country with affordable telecommunication services. The Rural Health Care Division (RHCD) of USAC manages the telecommunications discount program for health care.

Videoconferencing Systems: Equipment and software that provide real-time, generally two way transmission of digitized video images between multiple locations; uses telecommunications to bring people at physically remote locations together for meetings. Each individual location in a *videoconferencing* system requires a room equipped to send and receive video.

Videoconferencing: Real-time, generally two way transmission of digitized video images between multiple locations; uses telecommunications to bring people at physically remote locations together for meetings. Each individual location in a *videoconferencing* system requires a room equipped to send and receive video.

WiFi: Originally licensed by the Wi-Fi Alliance to describe the underlying technology of wireless local area networks (WLAN) based on the IEEE 802.11 specifications. It was developed to be used for mobile computing devices, such as laptops, in LANs, but is now increasingly used for more services, including Internet and VoIP phone access, gaming, and basic connectivity of consumer electronics such as televisions and DVD players, or digital cameras. (Wikipedia)

APPENDIX C: References

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Input to Board of Psychology Regarding the Status and Recommendations Regarding Telepsychology and Related Telehealth and More Specifically, of Telesupervision

Carol Falender, Ph.D.

As the Board of Behavioral Sciences has indicated a move to change its regulations to allow for a large segment of associate social workers and marriage and family interns to receive all their pre-licensure supervised experience through telesupervision, it is critical to review aspects of this which are a departure from standards of practice of clinical supervision.

What is clinical supervision?

Clinical supervision is the major vehicle for the transmission of competence, knowledge, skills, and values, to future generations of psychologists—and the major mechanism to ensure quality of services and gatekeeping to the profession.

Falender and Shafranske (2004) defined clinical supervision as "a distinct professional activity in which education and training aimed at developing science-informed practice are facilitated through a collaborative interpersonal process. It involves observation, evaluation, feedback, facilitation of supervisee self-assessment, and acquisition of knowledge and skills by instruction, modeling, and mutual problem-solving. Building on the recognition of the strengths and talents of the supervisee, supervision encourages self-efficacy. Supervision ensures that clinical (supervision) is conducted in a competent manner in which ethical standards, legal prescriptions, and professional practices are used to promote and protect the welfare of the client, the profession, and society at large" (p. 3).

The regulatory task is to ensure that clinical supervision, a distinct professional practice, (Falender & Shafranske, 2004), and the major means of training future generations of practitioners as well as maintaining gatekeeping and quality control over services is not diminished. The assumption is that the supervisor will remedy any supervisory deficiencies to ensure that the client receives a quality of care commensurate with that which would be given by the supervisor him/herself.

Best practices of clinical supervision are defined. See BOP Supervision Best Practices http://www.psychboard.ca.gov/applicants/supervision-best.shtml

Telchealth, Telepsychology, and Telesupervision

Telehealth is the use of electronic information and telecommunications technologies to support long-distance clinical health care, patient and professional health-related

education, public health and health administration (HRSA, 2009). Telehealth has also been defined as a "health delivery system that provides health-related activities at a distance between two or more locations using technology assisted communications (Australian New Zealand Telehealth Committee, cited by Rees & Haythornthwaite, 2004).

Telepsychology is the "delivery of non face-to-face psychological services by distance communication technology such as telephone, e-mail, chat, and videoconferencing (Drude, 2008, p. 8; Koocher, 2007).

Telepsychiatry is "practice of health care delivery that can include diagnosis, consultation, treatment, and transfer or exchange of medical and other data and educational materials through interactive audio, visual, and data communication" (cited in Miller, Burton, Hill, Luftman, Veltkemp, & Swope, 2005).

Note that all the definitions omit reference to supervision or telesupervision (Roby & Panos, 2004).

While multiple medical and other fields are quickly implementing telehealth, they are NOT doing so with telesupervision—in fact, medicine is increasing monitoring, face-to-face supervision, observation, and modeling. This is subsequent to Papadakis et al.'s influential work that revealed that physicians who were disciplined by medical boards had behavior during their training that was highly predictive of their later highly problematic behavior: severe irresponsibility and severely diminished capacity for self-improvement.

Telesupervision can be defined as "the use of electronic information and telecommunications technologies to support long-distance clinical health care, patient and professional health-related education, public health and health administration" (Wood, Miller, & Hargrove, 2005).

Should Telesupervision be used for individuals who are accruing hours towards licensure? Karen Dyck (Personal Communication, 2009) who is co-author of the most comprehensive implementation for psychology training answered as follows:

"Just to clarify our use of distance supervision. For psychology practicum students and interns; supervision is in-person. Obviously for practicum students the supervision process is different and live supervision of most client work is the norm. For psychology interns--they first complete a 6 month rotation in an urban centre, where they are supervised (in-person) by usually 3 or 4 different psychologists. Evaluations are completed twice during their first 6 month rotation and their rural/northern supervisor is informed of their progress (including any concerns) prior to them switching to their 6 month rural/northern. Once in the rural/northern setting, they receive in-person supervision by a registered (licensed) psychologist who's home base is in the same community as that of the intern. Although the psychologist may not always be in the same community

where the intern meets with their client (as we cover a large geographic area), supervision is in-person. And of course live supervision and audiotaping are also used in cases where it is felt the intern has less experience and needs greater supervision. This same arrangement occurs for our post-doc position. We have one training position that is for individuals who have completed their doctoral degree and are wanting an additional year of training in rural/northern practice. Again, supervision is in-person.

The situation where we do use distance supervision is in the case where we have a new faculty member who is not yet registered (licensed) and who is based in a rural or northern community. In many cases the successful applicants for these positions completed the internship or postdoc through our department, so they are known to us. In these situations every effort is made to have their internship supervisor continue supervising them in their new job. We do this because there has already been a supervisor-supervisee relationship formed. This makes distance supervision work much better. In these cases the supervisor will also make occasional visits to the new faculty member and the new faculty member will travel to the urban centre, so that there is some in-person supervision. We generally prefer telephone supervision over telehealth or videoconferenced supervision. Although I have done live-supervision via telehealth (participated in a systems meeting related to a client), as this was a client issue with which they had less familiarity. I should also mention that interns and new faculty have access to all the specialists in our department and, depending upon the need, specialists will travel out to assist them and supervise them on more specialized cases (e.g., neuropsych).

In situations where the new faculty are unknown to us, they typically spend some time in the urban centre getting to know our department faculty and their assigned supervisors. There are typically two. Once that orientation is complete they relocate to their rural/northern location and supervision is provided typically by phone. Again, the assigned supervisors will travel out to the new faculty members community so that at least some in-person supervision does occur. The new faculty member will also travel into Winnipeg for this purpose. Similar to the above situation, specialists are also available to travel out to the new faculty member to assist with cases that are more specialized.

I really do believe in-person contact is crucial to developing a good supervisee-supervisor relationship. Of course the extent to which live-supervision is necessary depends upon the stage of the person's training and the particular case."

(Personal Communication from Karen Dyck, University of Manitoba, May, 2009)

Appropriate Limits for Telepsychology:

An exerpt from the Ohio Telepsychology Guidelines (2008). :

"The Appropriate Use of Telepsychology. Psychologists recognize that telepsychology is not appropriate for all problems and that the specific process of providing professional services varies across situation, setting, and time, and decisions regarding the appropriate delivery of telepsychology services are made on a case-by-case basis. Psychologists have the necessary training, experience, and skills to provide the type of telepsychology that they provide. They also can adequately assess whether involved participants have the necessary knowledge and skills to benefit from those services. If the psychologist determines that telepsychology is not appropriate, they inform those involved of appropriate alternatives."

Rees & Haythornthwaite (2004) described Telepsychology for use in assessment and diagnosis, psychotherapy, and for education and training. These authors caution that although psychologists may be fearful that Telepsychology might replace face-to-face, the consensus is that Telepsychology is an "adjunct" to face-to-face, as an enhancement.

Others who advocated for the use of telesupervision as an *adjunct* include Vaccaro and Lambie (2007) and Wells, Mitchell, Finkelhor, & Becker-Blease (2006).

Framing Questions:

Would telesupervision will improve (or maintain) the standards of care (Stamm, 1998)? Will supervision be synchronous (occurring in real time such as skype or other interactive video feed) or asynchronous (email).

In a review of the available literature, some from the mainstream psychological journals, and much from other allied health professionals and physicians, it is clear that the potential of teletherapy and telepsychology is great. Individuals in rural and remote areas gain immediate access, consultation, and therapy. The important part of this transition is to ensure that proper regulations are put in place so that the gains we have made with ensuring quality services to protect the public are not lost.

Recommendations for Telesupervision

Several of the relevant studies (of which there are very few) enlisting telesupervision are described below. The conclusions are:

- Telesupervision should not begin until a significant and strong direct, face-toface relationship is established. (Supported by McIlwraith, Dyck, Holms, Carlson, & Prober, 2005; Kanz, 2001)
 - a. Concern that essential elements of the "therapeutic action" could be lost in telepsychiatry, especially those relating to the client-therapist relationship, and extrapolating to the therapist-supervisor relationship—especially there is total reliance on email

communication (Kassaw & Gabbard, 2002) although Clingerman & Bernard (2004) suggested that .in fact alliances are not impacted if the email exchanges are **supplemental** to other supervision.

- Familiarity and competence with the technology is a critical aspect of telepsychology and telesupervision.
- Multicultural competence is a major concern for telepsychology in general and telesupervision. Individuals at the local setting may have knowledge, skills, and attitudes reflecting the diverse populations served that will not be possessed by supervisors in another locale, including current contextual knowledge (Mallen, Vogel, & Rochlen, 2005).
- 4. Specific ethical and legal issues are raised in telesupervision—and have received the most attention in the literature. These need to be directly addressed in any regulatory position. Many of these were addressed by the Ohio Psychological Association in their "Approved Telepsychology Guidelines."
 - a. Confidentiality
 - i. Ensuring client privacy (Koocher, 2007)
 - b. Competence including
 - what competencies of psychologists translate into effective (or ineffective) alliances for clients (Koocher, 2007
 - ii. certain modalities do not transfer to telepsychology—play therapy or therapies with therapeutic touch (Koocher, 2007)
 - Potential for misrepresentation or that interactions will be posted on websites or youtube sites (Koocher, 2007)
 - iv. Validity of web-based assessment tools
 - c. Informed Consent including limitation of technology, risks to confidentiality, legally required reporting, and identifying telepsychology as an "innovative treatment" and notification about use of electronic messages not being appropriate for emergency communications—given the risk that a suicidal client would mistakenly assume 24-7 availability of the therapist to read his/her email transmission.
 - d. Issues of licensure across states in which the supervisor and supervisee reside—and in which clients receive treatment—and competence including a minimum of knowledge of and compliance with laws and standards of the state or country in which the client resides, reporting laws including duty to warn. Physicians are considering viewing the patient as "electronically transmitted" to the consultant's state as an option to deal with the issue of licensure (described in McGinty, Saeed, Simmons, & Yildirim, 2006)
 - What happens and who holds jurisdiction is something in therapy or supervision goes awry? (Koocher, 2007)
 - e. Access to and storage of communications including security—exactly what will be part of the clinical record
 - Verification of client identity and accessing contact information beyond email for emergencies—alternative means to contact the client

- or significant others for both emergencies and for problems with telepsychology equipment or connections. (Ohio Telepsychology Guidelines, 2008)
- g. Fees and financial arrangements
- h. We would add provision for termination of services in keeping with the APA Ethics Code (2002), providing appropriate termination and increased clarity to the client to ensure clarity when services have ended.
- Recommendations—especially relevant for supervision of supervision or supervision of a more experienced supervisee:
 - a. Mutual agreement between supervisee and supervisor on multiple aspects of planned interaction—as great or great specificity as the current Supervision Agreement that is simply a statement of current regulations. Consent by client for supervisee to receive telesupervision with clarity as to multiple parameters including confidentiality.
 - Ensuring there is monitoring of both client progress and of supervisee progress—ideally through video tape review
 - Commitment to follow HIPAA provisions and that supervisee and client are fully informed of vulnerabilities of telesupervision (All derived from Koocher, 2007)
 - d. The need to train individuals to understand the lack of feedback in the form of nonverbal communication, visual feedback (what appears to be disinterest could actually be concentration), engagement issues which are more difficult in distance transmissions, need for more specific types of communication rather than open-ended questions (Rees and Haythornthwaite, 2004).
- 6. Appropriate education on telesupervision to be obtained before beginning. This would include introduction to supervising without the presence of nonverbal and social cues, the possibility of diminished spontaneity, need for greater preparation, more structure, more intent listening, and attending (especially in the case of group supervision) to ensure individuals share the time appropriately and case material is covered consistently for all individuals and all cases (Wood et al., 2005).
- 7. Satisfaction by supervisee and effectiveness need to be assessed. Some evidence from nursing (Heckner & Giard, 2005) indicated face-to-face was preferred over distance supervision. Problems with technology resulting in no supervision have been cited as being a major consideration; there needs to be a back-up plan. Issues have been raised that supervisees reported high "disturbance scores"—including experiencing the session as frustrating, having unpleasant feelings before the session, feeling insecure about communicating unpleasant/difficult matters, felt this was a significant issue for distance supervision (Sorlie, Gammon, Bergvik, & Sexton, 1999)

Summaries of relevant literature:

A major study that is directly relevant (conducted under exceptionally optimal circumstances) was conducted in Manitoba's rural and northern community based training program for psychology interns and residents. McIlwraith, Dyck, Holms, Carlson, & Prober (2005) {the 2nd author was referenced in the personal communication above}reported on a training model in which interns lived in and provided services to remote northern communities for half of the internship year. This has been widely cited as a pioneer project which opens the door to significant training using telesupervision. It is important to note several dimensions that are little discussed:

- 1. The program and study were funded by a grate from Manitoba health
- 2. The interns were part of an APA/CPA accredited internship site
- 3. Predoctoral interns and postdoctoral residents received their first 6 months of training in Winnipeg with multiple supervisors before moving to the rural or northern rotation.
- During the first 6 months, there was emphasis on expansion of skills in preparation for the second part with careful calibration and tracking of their development and progress
- 5. They had contact with the supervisor who would work with them during the second 6 months during the first to ease the transition
- 6. There was a special emphasis on the cultural and diversity factors including Aboriginal Cultural Awareness workshops
- 7. Seminars were held through the 12 month year as were weekly clinical case presentations at which they were expected to present periodically.
- During their rural rotation, they were supervised by a resident psychologist
 who lives and provides services in the region where they were placed (so all
 supervision was not telesupervision)
- 9. There was ample contact via telephone and weekly case conferences and faculty travel to the remote areas at intervals.

Conclusions from their experience from 10 interns and 4 residents (collected over multiple years) were that telehealth in general is preferable to use as a supplement and support to the psychologists and interns actually living in rural and northern communities—not a substitute for them. Interdisciplinary experiences and collaboration were a significant opportunity for the supervisees. Although this is a very interesting model, it does not directly address the question of implementing exclusive telesupervision for all supervision, as the APA accredited program had a depth and breadth of training opportunities with a significant quantity of face-to-face supervision as well. They strongly advocate the formation of a strong supervisory relationships and significant training (in their case 6 months) before telesupervision begins. They also emphasize the critical quality of knowledge of the local setting including culture and diversity—the importance of having staff on site cannot be underestimated to provide context. The study does not assess the outcomes of telesupervison versus face-to-face.

Wood et al. (2005) proposed a telehealth model for clinical supervision consisting of four modules.

- Module 1 provided didactic and hands-on training in use of telecommunications including mechanics and use of equipment, legal and ethical issues, liability, and APA practice guidelines. It is essential this be completed *prior* to beginning telesupervision.
- Module 2 included use of hypothetical case studies for supervisorsupervisee discussion and practice. This is to introduce ethical, legal, and practice-oriented issues that arise as well as developing the style of interaction between the dyad.
- Module 3 is live interactive teleconferencing to provide group supervision to provide supervision between in vivo appointments.
- Module 4 provided traditional individual face-to-face supervision for each supervisee in the clinical setting.

Thus, through a combination of distance and live supervision, the authors felt that attention to legal, ethical, professional, and scope of practice considerations were all addressed. Web sites, email, videoconferencing, and face-to-face interactions were all utilized. Observation of video-recorded supervisee-client sessions supplemented the supervisory input by allowing supervisors direct access to clinical interactions. These authors summarized what is known about differences between technology-mediated communication and face-to-face.

Strengths: In technology-mediated supervision, visual and social cues (and the whole range of nonverbal communication) may be compromised or omitted. This may result in more task-oriented, depersonalized, less spontaneous communication (Gammon et al., 1998). It is also associated with more clear and structured communication, more intent listening, fewer interruptions, and greater preparation for supervision. It is possible the technology reduces the hierarchical issues between supervisor and supervisee and may lower social inhibitions. Introducing the active video review of sessions during supervision can provide a great amount of data and strength. If the supervision is conducted in a group, there is the opportunity for exposure to multiple clients and a variety of perspectives (as is typically the case in group supervision). Wood et al. suggested that supervisors must focus on the differences in process to ensure that it does not hinder effective supervision. These authors assume the combination of face-to-face and distance.

Challenges: These include possibility that supervisees will not get what is needed from supervision, especially if there are heavy caseloads or a dominant group member who takes the majority of the supervision time. Other specific issues raised by Wood et al. include confidentiality, equipment cost (which we will not address here), attitudes towards technology, quality of supervision, and licensure issues. We would add technology glitches. Stamm (1999) described risks from people and from technology. The former include criminal intent, accidents, or idle curiosity—most of which are dealt with through encryption, high level virus protection, and HIPAA compliance. Most authors urge client identifying information be omitted from supervision emails. It is

important that the same informed consent procedures be used with telesupervision—informing client of uses and disclosures at all levels. Attitudes towards technology can be most critical. Higher anxiety may be elicited by use of telesupervision—especially for individuals who are less familiar with the technology.

The Gammon et al (1998) study was one of very few that compared quality of individual supervision face-to-face with videoconferencing. Subjective reports indicated satisfaction with using telesupervision for *half* of the supervision. Licensure is another large consideration—individual states may not recognize telesupervision as equivalent to face-to-face, which could have enormous repercussions for individuals who attempt to obtain licensure in other states later. Furthermore, individuals who supervise over time in a given state in the vast majority of cases must be licensed in that state. The medical profession is currently adopting various models to allow for special purpose licensure for telehealth or moving towards mutual license recognition for nursing (DeLeon, cited in Wood et al., 2005).

Efficacy

The data on supervision effectiveness is scanty. Sorlie, Gammon, Bergvik & Sexton (1999) reported on qualitative comparison with 6 dyads who alternated between video and face-to-face supervision. Trainees rated "disturbance" or frustration, inability to communicate unpleasant or difficult matters, not feeling close or present to each other, and most affected by disturbing elements and emotions at a rate higher than supervisors—a finding attributed to supervisee's more vulnerable status. Trainees viewed face-to-face as most favorable, especially with respect to difficult or disturbing items. Participants noted reduced eye contact, less nuance and diminished nonverbal cues with a concurrent increase on reliance on verbal cues. Emotional issues were mostly reserved for face-to-face contact. There were reports of increased preparation and self-discipline in the video condition; however, this may have resulted in reduction processing emotional response.

Guidelines suggested by these authors included the necessity for strong supervisory guidance and preparation in the pedagogy of clinical supervision, intent attention to reflecting on reactions occurring within supervision and in the clinical setting, and supervisor assessment of whether this is an adequate modality for each individual supervisee, given the reduced ability to attend to nonverbal behavior. If in face-to-face interactions, a particular supervisee resists attending to personal material or intellectualizes, the video modality is not desirable. They concluded that extensive use of the video during the later part of mandatory psychotherapy supervision is acceptable.

Sorlie et al. (1999) cited Norwegian Medical Association guidelines that approved initiation of study of video supervision given preconditions of limiting to a set number trainees and supervision settings, ensuring that supervisors were part of the team at the trainees' workplaces, and that supervisory relationships had to be well established face-to-face prior to embarking on video supervision.

There is not actually much research on the effectiveness of telepsychiatry, telesupervision, and outcomes, and basically none on the use of such with professional psychologists. From the studies we have reviewed, however, it is reasonable to conclude that educational effectiveness decreases as the connection between instructor or supervisor and student becomes more distant (APA, 2001). For example, it is thought that simple self-study (such as reading a book) is not equal in quality to having the opportunity to send e-mail back and forth to the instructor ("asynchronous internet learning"), and that immediate contact with a distant instructor ("synchronous internet learning") is even better. In a longitudinal study, over 10 years in UK (U. of Wales Aberystwyth) the researchers concluded that face-to-face interaction is essential to complement distance or virtual learning (Urquhart et. al., 2002), especially for the very individuals who turn to distance learning, often those who are isolated.

Telehealth

In the realm of primary care, telehealth has been quickly adopted. Folen, James, Verschell, & Earles (2005). Although there is a strong "in-vivo bias" (p. 280) by practitioners, preliminary satisfaction reports from patients reveal there is greater comfort with telehealth modality. Clinicians also report patients to be more focused and receptive than in the in-vivo setting. However, beyond satisfaction, outcome studies of significant number simply do not exist, comparing treatment equivalence or differential effects.

In telepsychiatry, Moninier, Knapp, & Frueh (2003) concluded that limited studies have been conducted, and although there is evidence to support the premise that there is good client satisfaction (the most frequently researched measure), clinical assessment, outcomes, and cost-effectiveness are all good.

Other Legal and ethical considerations

Who is liable in the case of telesupervision? Roby and Panos (2004) described models in which distance supervisors provide supplemental supervision but the local supervisors bear liability. Issues raised are confidential information transmission to distance supervisors, educational supervision to the student—which must then be integrated and/or approved by the local supervisor, taking into account local cultural, legal, and other considerations.

Conclusions

The power of face-to-face contact in establishing the supervisory relationship is a critical component of supervision. As the priority and charge of the Board of Psychology is the protection of the public, it would be very beneficial to enhance opportunities for expanded practice in telehealth through attention to licensure reciprocity and other mechanisms (ASPPB, etc.), but to continue to ensure that the quality control and excellence in preparation is maintained for psychology.

Training in telesupervision. Online counseling training is increasingly available...online. (www.ismho.org) by organizations requiring membership U.S. Department of Health and Human Services: C:\Documents and Settings\Carol\Local Settings\Temporary Internet Files\Content.IE5\WDOF4DAN\telehealth

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Developing Telepsychology Guidelines for a State Psychological Association Ohio Psychological Association http://www.ohpsych.org APA Convention August 15, 2008

What is telepsychology?

"Telepsychology is the provision of non-face-to-face psychological services by distance communication technology such as telephone, e-mail, chat and videoconferencing."

Mission

"to propose a set of flexible and workable guidelines that can be applied by psychologists when providing telepsychology... they are intended to be applicable to any psychological services provided using communication technology."

State or national guidelines for applying the American Psychological Association (APA) ethical standards when using communication technology do not currently exist.

Guidelines development process

- Literature and Internet search of relevant telehealth guidelines and standards including American Psychological Association.
- · Identify areas of APA Code of Ethics needing telepsychology guidelines
- Develop draft guidelines and supportive reference documentation
- · Submit draft to state association board for feedback
- · Submit revised draft to state association membership and other interested parties for feedback
- Review feedback and submit draft to state association board for review and approval.

Telepsychology Guidelines Ohio Psychological Association Adopted April 12, 2008

The APA and other professional organizations have previously identified many of the issues addressed in these guidelines. These issues are identified in endnotes and documents listed in the References section. It is suggested that these telepsychology guidelines be read in conjunction with the APA Code of Ethics. There is some intentional redundancy between the guidelines and the APA Code of Ethics standards to emphasize the application of those standards when practicing telepsychology.

1. The Appropriate Use of Telepsychology

Psychologists recognize that telepsychology is not appropriate for all problems and that the specific process of providing professional services varies across situation, setting, and time, and decisions regarding the appropriate delivery of telepsychology services are made on a case-by-case basis. Psychologists have the necessary training, experience, and skills to provide the type of telepsychology that they provide. They also can adequately assess whether involved participants have the necessary knowledge and skills to benefit from those services. If the psychologist determines that telepsychology is not appropriate, they inform those involved of appropriate alternatives.

2. Legal and Ethical Requirements

Psychologists assure that the provision of telepsychology is not legally prohibited by local or state laws and regulations (supplements APA Ethics Code Sec. 1.02). Psychologists are aware of and in compliance with the Ohio psychology licensure law (Ohio Revised Code Chapter 4732) and the Ohio State Board of Psychology "Rules Governing Psychologists and School Psychologists" promulgated in the Ohio Administrative Code.

Psychologists are aware of and in compliance with the laws and standards of the particular state or country in which the client resides, including requirements for reporting individuals at risk to themselves or others (supplements APA Ethics Code Sec. 2.01). This step includes compliance with Section 508 of the Rehabilitation Act to make

technology accessible to people with disabilities, 112 as well as assuring that any advertising related to telepsychology services is non-deceptive (supplements APA Ethics Code Sec. 5.01).

3. Informed Consent and Disclosure

Psychologists using telepsychology provide information about their use of electronic communication technology and obtain the informed consent of the involved individual using language that is likely to be understood and consistent with accepted professional and legal requirements. In the event that a psychologist is providing services for someone who is unable to provide consent for him or herself (including minors), additional measures are taken to ensure that appropriate consent (and assent where applicable) are obtained as needed. Levels of experience and training in telepsychology, if any, are explained (though few opportunities for such training exist at this time) and the client's informed consent is secured (supplements APA Ethics Code Sec.3.10). ¹³

As part of an informed consent process, clients are provided sufficient information about the limitations of using technology, including potential risks to confidentiality of information due to technology, as well as any legally-required reporting, such as reporting clinical clients who may be suicidal or homicidal.¹⁴ This disclosure includes information identifying telepsychology as innovative treatment (supplements APA Ethical Principles 10.01b). Clients are expected to provide written acknowledgement of their awareness of these limitations. Psychologists do not provide telepsychology services without written client consent. Psychologists make reasonable attempts to verify the identity of clients¹⁵ and to help assure that the clients are capable of providing informed consent (supplements APA Ethics Code Sec. 3.10). ¹⁶

When providing clinical services, psychologists make reasonable attempts to obtain information about alternative means of contacting clients and provide clients with an alternative means of contacting them in emergency situations or when telepsychology is not available.¹⁷

Psychologists inform clients about potential risks of disruption in the use telepsychology, clearly state their policies as to when they will respond to routine electronic messages, and in what circumstances they will use alternative communications for emergency situations. ¹⁸ Given the twenty-four-hour, seven-day-a-week availability of an online environment, as well as the inclination of increased disclosure online, clinical clients may be more likely to disclose suicidal intentions and assume that the psychologist will respond quickly (supplements APA Ethics Code Sec. 4.05).

4. Secure Communications/Electronic Transfer of Client Information

Psychologists, whenever feasible, use secure communications with clinical clients, such as encrypted text messages via e-mail or secure websites and obtain consent for use of non-secured communications. ¹⁹ Non-secure communications avoid using personal identifying information. ²⁰ Considering the available technology, psychologists make reasonable efforts to ensure the confidentiality of information electronically transmitted to other parties.

5. Access to and Storage of Communications

Psychologists inform clients about who else may have access to communications with the psychologist, how communications can be directed to a specific psychologist, and if and how psychologists store information.²¹ Psychologists take steps to ensure that confidential information obtained and or stored electronically cannot be recovered and accessed by unauthorized persons when they dispose of computers and other information storage devices.²² Clinical clients are informed of the types of information that will be maintained as part of the client's record.²³

6. Fees and Financial Arrangements

As with other professional services, psychologists and clients reach an agreement specifying compensation, billing, and payment arrangements prior to providing telepsychology services (supplements APA Ethics Code Sec. 6.01).

8. Expiration and Review Date

These guidelines will expire in five years after their formal adoption unless reauthorized or replaced prior to that date.

Standards and Guidelines Relevant to Telepsychology

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