

**INTER-SOCIETY COORDINATING COMMITTEE FOR PRACTITIONER EDUCATION IN GENOMICS
(ISCC-PEG)**

**National Human Genome Research Institute
(8/2015 Revision)**

Vision: To improve genomic literacy of physicians and other healthcare providers and enhance the effective practice of clinical genomic medicine, through joint identification of educational needs and sharing best practices in educational approaches.

Mission: To facilitate interactions among professional societies and related organizations to enhance and promote the understanding of practitioners in applying genomic medicine to cost effective decision making and clinical care. The ISCC's role is to stimulate the activities of these members, by offering leadership, partnership, and expertise when desired by individual societies.

Goals:

1. Gather and facilitate dissemination of best practices and resources in genomics education and promote their translation into evidence based clinical care.
2. Assist societies and professional organizations in identifying gaps in medical knowledge, procedures, skills, or attitudes related to genomics, including how it relates to patient populations.
3. Assist societies in joint and separate publications of common interest related to genomic medicine and education.
4. Actively promote agreed-upon milestones and competencies related to genomic medicine.

ISCC Composition and Meeting Commitments:

1. Professional societies, interested NIH Institutes and Centers, and related organizations with an interest in genomic medicine will have one "lead" representative and others as desired, appointed to variable terms determined by their organizations.
2. ISCC will be co-chaired by a professional society representative and an NIH staff person for a three year term.
3. Biannual ISCC in-person live meetings.
4. Monthly Plenary telephone meeting, at co-chairs' discretion.
5. Work group and subcommittee representation with conference calls between meetings, as necessary.
6. Invitation of ad hoc content experts as needed.

Funding and Staff Support: Professional societies and related organizations support the ISCC-related activities of their representatives and their travel to ISCC meetings. NHGRI will support the core efforts of the ISCC. As the committee's scope grows, sustainable support will need to be sought from other sources. Members are encouraged to participate in planning for sustainability.

Specific Activities: During its inception, ISCC's initial goal was to better integrate genomic sciences from the laboratory to the clinic and bedside. "Use cases" crafted to highlight relevance to societies'

members and better facilitate education and implementation utility were created as tools. Engagement with physician specialty certifying boards is ongoing in an effort to incorporate genomics into the mainstream clinical practice and maintenance of certification.

Current work groups' activities include:

1. Engage specialty boards and work with them to incorporate genomics into certification exams.
2. Identify educational needs and barriers for practitioners in genomic medicine and share results across societies; facilitate use of standardized evaluation instruments across societies to permit pooling of results.
3. Review and disseminate resources to enhance relevant physician competencies such as utilization of genetic counselors, pre-test counseling and consent, selection of a laboratory, ordering of tests and interpreting results, discussions with patients and families, identification and use of physicians with expertise in genomics, and subsequent actions indicated.
4. Provide review of professional society guidelines and other guidance offered to healthcare providers in the use of genomics in prevention, diagnosis and treatment, if requested.
5. Develop and disseminate metrics useful in monitoring the success of educational programs in leading to appropriate use of genomic technologies.
6. Provide a venue for sharing effective genomic education plans, materials, and outcomes across professional societies, as well as lessons learned.
7. Collaborate with other provider education groups to standardize approaches, competencies, and knowledge base for all healthcare providers.
8. Work with appropriate accreditation bodies to assist in the support in the education of physicians and other healthcare providers throughout their careers.
9. Facilitate education of practitioners whose roles in care are largely administrative.

Metrics: Baseline practice measures in educational tools and continuing medical education opportunities have been researched within current ISCC member societies and organizations. Potential identified knowledge gaps provide areas for intervention. In an effort to impact patient outcomes, additional opportunities related to genomic medicine and application to clinical practice need to be further delineated and investigated to consider evidence based recommendations of collaborative effort among societies for cost effective areas of synergy. The ISCC will be a success if inter-society communications are free-flowing, useful, and perhaps more importantly, if there are documented improvements in appropriate use of genomic strategies by healthcare providers. Specific metrics related to genomic medicine education might include:

1. Educational products are increasingly used by practicing physicians and other healthcare providers related to diagnosis, management, prognosis, and treatment in genomic medicine.
2. Professional society members reveal improved knowledge and comfort in using genomics in their practices.
3. Publications reflect findings of ISCC and the commissioned work groups.
4. Genomic medicine content is incorporated into certification examinations at relevant levels of practitioners' training and career paths.

5. Accrediting bodies demonstrate enhanced educational efforts for healthcare providers in training and in practice as measured by increased inclusion of content related to genomic based medicine.