

Specialty-specific References for DIOs: Resident/Fellow Scholarly Activity ACGME

Common Program Requirements are in BOLD

Specialty	Specialty-specific Program Requirements
Allergy and Immunology	<p>IV.B. Residents' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance residents' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. <small>(Core)</small></p> <p>IV.B.1.a) The program must provide residents with a research experience that results in an understanding of the basic principles of study design, performance (including data collection), data analysis (including statistics and epidemiology), and reporting research results. <small>(Detail)</small></p> <p>IV.B.2. Residents should participate in scholarly activity. <small>(Core)</small></p> <p>IV.B.2.a) Under faculty member supervision, each resident must design and conduct allergy and/or immunology research that is either laboratory-based, epidemiologic, continuous quality improvement, or clinical investigation-based. <small>(Outcome)</small></p> <p>IV.B.2.a).(1) Residents must present their research findings orally and in writing. <small>(Outcome)</small></p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate resident involvement in scholarly activities. <small>(Detail)</small></p>
Anesthesiology	<p>IV.B. Residents' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance residents' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. <small>(Core)</small></p> <p>IV.B.2. Residents should participate in scholarly activity. <small>(Core)</small></p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate resident involvement in scholarly activities. <small>(Detail)</small></p> <p>IV.B.4. Each resident must complete, under faculty member supervision, an academic assignment. <small>(Core)</small></p> <p>IV.B.4.a) Academic assignments should include grand rounds presentations, preparation and publication of review articles, book chapters, manuals for teaching or clinical practice, or development, performance or participation in one or more clinical or laboratory investigations. <small>(Detail)</small></p> <p>IV.B.4.b) The outcome of resident investigations should be suitable for presentation at local, regional, or national scientific meetings, and/or result in peer-reviewed abstracts or manuscripts. <small>(Detail)</small></p>

Specialty	Specialty-specific Program Requirements
Adult Cardiothoracic Anesthesiology	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. All fellows must complete a scholarly project. ^(Core)</p> <p>IV.B.1.a) The results of such projects must be disseminated through a variety of means, including publication or presentation at local, regional, national, or international meetings. ^(Core)</p>
Critical Care Anesthesiology	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. The program must provide instruction in the fundamentals of research design and conduct, and the interpretation and presentation of data. ^(Detail)</p> <p>IV.B.2. During the program, fellows must participate in at least one clinical or other research project related to critical care medicine. ^(Core)</p> <p>IV.B.2.a) Results of each project must be disseminated through publication or presentation at local, regional, national, or international meetings. ^(Detail)</p>
Obstetric Anesthesiology	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. Each fellow should conduct or be substantially involved in a scholarly project related to the subspecialty which leads to both presentation at a national meeting, and publication. ^(Outcome)</p> <p>IV.B.1.a) Fellows must have a faculty mentor overseeing the project. ^(Core)</p>
Pediatric Anesthesiology	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. The program must provide instruction in the fundamentals of research design and conduct, and the interpretation and presentation of data. ^(Core)</p> <p>IV.B.2. Each fellow must complete a scholarly project, the results of which must be disseminated through a variety of means, including publication or presentation at local, regional, national, or international meetings. ^(Core)</p>

Specialty	Specialty-specific Program Requirements
<p>Regional Anesthesiology and Acute Pain Medicine</p>	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. All fellows must complete a scholarly project. <i>(Core)</i></p> <p>IV.B.1.a) The results of such projects must be disseminated through a variety of means, including publication or presentation at local, regional, national, or international meetings. <i>(Core)</i></p> <p>IV.B.1.b) To accomplish these objectives, the members of the regional anesthesiology and acute pain medicine faculty must mentor fellows in the preparation of research proposals, research methodology, and authorship guidelines. <i>(Core)</i></p> <p>IV.B.1.b).(1) Fellows should give research presentations at national or regional meetings. <i>(Detail)</i></p> <p>IV.B.1.c) Fellows must:</p> <p>IV.B.1.c).(1) engage in teaching activities as a major activity of the fellowship. <i>(Core)</i></p> <p>IV.B.1.c).(2) create and present a lecture during departmental or divisional grand rounds, or at a local, regional, or national meeting, covering a topic, research, or case relevant to regional anesthesia or acute pain medicine; <i>(Core)</i></p> <p>IV.B.1.c).(3) prepare and present resident education lectures and journal reviews for regional anesthesia and/or acute pain medicine subspecialty conferences; <i>(Core)</i></p> <p>IV.B.1.c).(4) participate and direct cadaver anatomy laboratories for regional anesthesia if available; <i>(Core)</i></p> <p>IV.B.1.c).(5) develop teaching techniques by instructing residents and/or medical students at the bedside with the supervision of faculty member(s); and, <i>(Core)</i></p> <p>IV.B.1.c).(6) review and enhance web-based teaching resources, such as resident teaching materials, curriculum documents, and self-study and testing materials. <i>(Core)</i></p>

Specialty	Specialty-specific Program Requirements
Colon and Rectal Surgery	<p>IV.B. Residents' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance residents' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. (Core)</p> <p>IV.B.2. Residents should participate in scholarly activity. (Core)</p> <p>IV.B.2.a) Each resident should participate in at least two of the following activities: (Detail)</p> <p>IV.B.2.a).(1) one or more ongoing research studies with the faculty; (Detail)</p> <p>IV.B.2.a).(2) one or more resident-initiated research project with faculty supervision; (Detail)</p> <p>IV.B.2.a).(3) one or more scientific presentations at local, regional, national or international meetings; (Detail)</p> <p>IV.B.2.a).(4) preparation/submission of one or more articles for peer-reviewed publications; or, (Detail)</p> <p>IV.B.2.a).(5) writing one or more book chapters or current standards papers. (Detail)</p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate resident involvement in scholarly activities. (Detail)</p> <p>IV.B.3.a) The program should provide support for residents involved in research, including research design, technical support and statistical analysis. (Detail)</p> <p>IV.B.4. The program director must document each resident's scholarly activity annually. (Core)</p>
Dermatology	<p>IV.B. Residents' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance residents' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. (Core)</p> <p>IV.B.2. Residents should participate in scholarly activity. (Core)</p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate resident involvement in scholarly activities. (Detail)</p> <p>IV.B.4. Basic science and clinical investigation must be included in the educational experience of residents.</p> <p>IV.B.4.a) All residents should participate or have education regarding basic science and/or clinical research during the program. (Core)</p> <p>IV.B.5. Residents must be provided protected time and funding to attend at least one national meeting during the program. (Core)</p> <p>IV.B.6. Residents must prepare oral or poster presentations, or manuscripts suitable for publication in peer-reviewed journals. (Core)</p>

Specialty	Specialty-specific Program Requirements
Micrographic Surgery and Dermatologic Oncology	<p>IV.B. Fellows' Scholarly Activities</p> <p>Each fellow must demonstrate scholarly activity through at least one of the following: ^(Core)</p> <p>IV.B.1. preparation of one or more manuscripts suitable for submission to a peer-reviewed publication; or, ^(Outcome)</p> <p>IV.B.2. one or more presentations at local, regional, or national professional society meetings on topics relevant to procedural dermatology. ^(Outcome)</p>
Diagnostic Radiology	<p>IV.B. Residents' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance residents' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. ^(Core)</p> <p>IV.B.2. Residents should participate in scholarly activity. ^(Core)</p> <p>IV.B.2.a) Residents must have training in critical thinking skills and research design (e.g., lectures, journal club, etc.). ^(Core)</p> <p>IV.B.2.b) During their training, all residents must engage in a scholarly project under faculty supervision. ^(Core)</p> <p>IV.B.2.b).(1) This may take the form of laboratory research, or clinical research, or the analysis of disease processes, imaging techniques, or practice management issues. ^(Detail)</p> <p>IV.B.2.b).(2) The results of such projects must be published or presented at institutional, local, regional, or national meetings, and included in the resident's learning portfolio. ^(Outcome)</p> <p>IV.B.2.b).(3) The program must specify how each project will be evaluated. ^(Detail)</p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate resident involvement in scholarly activities. ^(Detail)</p>
Abdominal Radiology Pediatric Radiology Nuclear Radiology	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. The program must provide instruction in the fundamentals of experimental design, performance, and interpretation of results. ^(Core)</p> <p>IV.B.2. All fellows must engage in a scholarly project. ^(Core)</p> <p>IV.B.2.a) This project may take the form of laboratory research, clinical research, analysis of disease processes, imaging techniques, or practice management issues. ^(Detail)</p> <p>IV.B.2.b) The results of such projects must be submitted for publication or presented at departmental, institutional, local, regional, national or international meetings. ^(Outcome)</p>

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Musculoskeletal Radiology	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. The program must provide instruction in the fundamentals of experimental design, performance, and interpretation of results. <i>(Core)</i></p> <p>IV.B.2. All fellows must engage in a scholarly project. <i>(Core)</i></p> <p>IV.B.2.a) This project may take the form of laboratory research, clinical research, analysis of disease processes, imaging techniques, or practice management issues. <i>(Detail)</i></p> <p>IV.B.2.b) The results of such projects must be submitted for publication or presented at departmental, institutional, local, regional, national or international meetings. <i>(Outcome)</i></p> <p>IV.B.3. Laboratory facilities to support research projects should be available in the institution. <i>(Detail)</i></p>
Neuroradiology	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. The fellows should learn the fundamentals of experimental design, performance, and interpretation of results. <i>(Core)</i></p> <p>IV.B.2. Fellows should participate in clinical, basic biomedical, or health services research projects. <i>(Core)</i></p> <p>IV.B.2.a) Fellows should be encouraged to undertake at least one project as principal investigator. <i>(Detail)</i></p> <p>IV.B.3. Fellows should submit at least one scientific paper or exhibit for presentation at a regional or national meeting. <i>(Outcome)</i></p> <p>IV.B.4. The opportunity also must be provided for fellows to develop their competence in critical assessment of new imaging modalities and of new procedures in neuroradiology. <i>(Core)</i></p>
Vascular Interventional Radiology	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. The program should provide instruction in the fundamentals of experimental design, performance, and interpretation of results. <i>(Core)</i></p> <p>IV.B.2. All fellows must engage in a scholarly project. <i>(Core)</i></p> <p>IV.B.2.a) This project may take the form of laboratory research, clinical research, analysis of disease processes, imaging techniques, or practice management issues. <i>(Detail)</i></p> <p>IV.B.2.b) The results of such projects must be submitted for publication or presented at departmental, institutional, local, regional, national or international meetings. <i>(Detail)</i></p> <p>IV.B.3. The opportunity must be provided for fellows to develop their competence in critical assessment of new imaging modalities and of new procedures in vascular and interventional radiology. <i>(Detail)</i></p> <p>IV.B.4. Training should provide opportunities for research in new technologies. <i>(Detail)</i></p> <p>IV.B.5. Fellows should be able to evaluate clinical outcomes of interventional radiology. <i>(Outcome)</i></p> <p>IV.B.6. Fellows should participate in clinical, basic biomedical or health services research projects. <i>(Core)</i></p> <p>IV.B.6.a) Fellows should be encouraged to undertake at least one project as principal investigator. <i>(Detail)</i></p>

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	IV.B.7. Fellows should submit at least one scientific paper or exhibit to a regional or national meeting. <i>(Outcome)</i>
Emergency Medicine	<p>IV.B. Residents' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance residents' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. <i>(Core)</i></p> <p>IV.B.2. Residents should participate in scholarly activity. <i>(Core)</i></p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate resident involvement in scholarly activities. <i>(Detail)</i></p>
Emergency Medical Services	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance fellows' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. <i>(Core)</i></p> <p>IV.B.2. Fellows must participate in scholarly activity that includes at least one of the following:</p> <p>IV.B.2.a) peer-reviewed funding and research; <i>(Outcome)</i></p> <p>IV.B.2.b) publication of original research or review articles; or, <i>(Outcome)</i></p> <p>IV.B.2.c) presentations at local, regional, or national professional and scientific society meetings. <i>(Outcome)</i></p>
Pediatric Emergency Medicine	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance fellows' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. <i>(Core)</i></p> <p>IV.B.2. Fellows should participate in scholarly activity. <i>(Core)</i></p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate fellow involvement in scholarly activities. <i>(Detail)</i></p>
Family Medicine	<p>IV.B. Residents' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance residents' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. <i>(Core)</i></p> <p>IV.B.2. Residents should participate in scholarly activity. <i>(Core)</i></p> <p>IV.B.2.a) Residents should complete two scholarly activities, at least one of which should be a quality improvement project. <i>(Outcome)</i></p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate resident involvement in scholarly activities. <i>(Detail)</i></p>

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Internal Medicine	<p>IV.B. Residents' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance residents' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. <small>(Core)</small></p> <p>IV.B.2. Residents should participate in scholarly activity. <small>(Core)</small></p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate resident involvement in scholarly activities. <small>(Detail)</small></p>
Adult Congenital Heart Disease	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. Each program must provide an opportunity for fellows to participate in research or other scholarly activities, including: <small>(Core)</small></p> <p>IV.B.1.a) a research project (with faculty mentorship); or, <small>(Detail)</small></p> <p>IV.B.1.b) participation with the faculty in the initiation and conduct of clinical trials within the department; or, <small>(Detail)</small></p> <p>IV.B.1.c) participation in quality assurance/quality improvement or process improvement projects. <small>(Detail)</small></p>
Advanced Heart Failure and Transplant Cardiology	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. Each program must provide an opportunity for fellows to participate in research or other scholarly activities, including: <small>(Core)</small></p> <p>IV.B.1.a) a research project (with faculty mentorship); or, <small>(Detail)</small></p> <p>IV.B.1.b) participation with the faculty in the initiation and conduct of clinical trials within the department; or, <small>(Detail)</small></p> <p>IV.B.1.c) participation in quality assurance/quality improvement or process improvement projects. <small>(Detail)</small></p>
Cardiovascular Disease	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance fellows' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. <small>(Core)</small></p> <p>IV.B.2. Fellows should participate in scholarly activity. <small>(Core)</small></p> <p>IV.B.2.a) The majority of fellows must demonstrate evidence of scholarship conducted during the fellowship <small>(Outcome)</small></p> <p>This should be achieved through one or more of the following:</p> <p>IV.B.2.a).(1) publication of articles, book chapters, abstracts or case reports in peer-reviewed journals; <small>(Detail)</small></p> <p>IV.B.2.a).(2) publication of peer-reviewed performance improvement or education research; <small>(Detail)</small></p> <p>IV.B.2.a).(3) peer-reviewed funding; or, <small>(Detail)</small></p> <p>IV.B.2.a).(4) peer-reviewed abstracts presented at regional, state, or national specialty meetings. <small>(Detail)</small></p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate fellow involvement in scholarly activities. <small>(Detail)</small></p>

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Clinical Cardiac Electrophysiology	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. Each program must provide an opportunity for fellows to participate in research or other scholarly activities, including: ^(Core)</p> <p>IV.B.1.a) a research project (with faculty mentorship); or, ^(Detail)</p> <p>IV.B.1.b) participation with the faculty in the initiation and conduct of clinical trials within the department; or, ^(Detail)</p> <p>IV.B.1.c) participation in quality assurance/quality improvement or process improvement projects. ^(Detail)</p>
Clinical Cardiac Electrophysiology	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. Fellows must participate in scholarly activity, including at least one of the following: ^(Core)</p> <p>IV.B.1.a) a research project (with faculty member mentorship); or, ^(Detail)</p> <p>IV.B.1.b) participation with the faculty member in the initiation and conduct of clinical trials within the department; or, ^(Detail)</p> <p>IV.B.1.c) participation in quality assurance/quality improvement or process improvement projects. ^(Detail)</p>
Critical Care Medicine	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance fellows' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. ^(Core)</p> <p>IV.B.2. Fellows should participate in scholarly activity. ^(Core)</p> <p>IV.B.2.a) The majority of fellows must demonstrate evidence of scholarship conducted during the fellowship ^(Outcome)</p> <p>This should be achieved through one or more of the following:</p> <p>IV.B.2.a).(1) publication of articles, book chapters, abstracts or case reports in peer-reviewed journals; ^(Detail)</p> <p>IV.B.2.a).(2) publication of peer-reviewed performance improvement or education research; ^(Detail)</p> <p>IV.B.2.a).(3) peer-reviewed funding; or, ^(Detail)</p> <p>IV.B.2.a).(4) peer-reviewed abstracts presented at regional, state, or national specialty meetings. ^(Detail)</p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate fellow involvement in scholarly activities. ^(Detail)</p>
Endocrinology, Diabetes, and Metabolism	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance fellows' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. ^(Core)</p> <p>IV.B.2. Fellows should participate in scholarly activity. ^(Core)</p> <p>IV.B.2.a) The majority of fellows must demonstrate evidence of scholarship conducted during the fellowship ^(Outcome)</p> <p>This should be achieved through one or more of the following:</p>

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	<p>IV.B.2.a).(1) publication of articles, book chapters, abstracts or case reports in peer-reviewed journals; ^(Detail)</p> <p>IV.B.2.a).(2) publication of peer-reviewed performance improvement or education research; ^(Detail)</p> <p>IV.B.2.a).(3) peer-reviewed funding; or, ^(Detail)</p> <p>IV.B.2.a).(4) peer-reviewed abstracts presented at regional, state, or national specialty meetings. ^(Detail)</p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate fellow involvement in scholarly activities. ^(Detail)</p>
Gastroenterology	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance fellows' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. ^(Core)</p> <p>IV.B.2. Fellows should participate in scholarly activity. ^(Core)</p> <p>IV.B.2.a) The majority of fellows must demonstrate evidence of scholarship conducted during the fellowship ^(Outcome)</p> <p>This should be achieved through one or more of the following:</p> <p>IV.B.2.a).(1) publication of articles, book chapters, abstracts or case reports in peer-reviewed journals; ^(Detail)</p> <p>IV.B.2.a).(2) publication of peer-reviewed performance improvement or education research; ^(Detail)</p> <p>IV.B.2.a).(3) peer-reviewed funding; or, ^(Detail)</p> <p>IV.B.2.a).(4) peer-reviewed abstracts presented at regional, state, or national specialty meetings. ^(Detail)</p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate fellow involvement in scholarly activities. ^(Detail)</p>
Hematology	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance fellows' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. ^(Core)</p> <p>IV.B.2. Fellows should participate in scholarly activity. ^(Core)</p> <p>IV.B.2.a) The majority of fellows must demonstrate evidence of scholarship conducted during the fellowship ^(Outcome)</p> <p>This should be achieved through one or more of the following:</p> <p>IV.B.2.a).(1) publication of articles, book chapters, abstracts or case reports in peer-reviewed journals; ^(Detail)</p> <p>IV.B.2.a).(2) publication of peer-reviewed performance improvement or education research; ^(Detail)</p> <p>IV.B.2.a).(3) peer-reviewed funding; or, ^(Detail)</p> <p>IV.B.2.a).(4) peer-reviewed abstracts presented at regional, state, or national specialty meetings. ^(Detail)</p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate fellow involvement in scholarly activities. ^(Detail)</p>

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Hematology and Medical Oncology	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance fellows' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. (Core)</p> <p>IV.B.2. Fellows should participate in scholarly activity. (Core)</p> <p>IV.B.2.a) The majority of fellows must demonstrate evidence of scholarship conducted during the fellowship (Outcome)</p> <p>This should be achieved through one or more of the following:</p> <p>IV.B.2.a).(1) publication of articles, book chapters, abstracts or case reports in peer-reviewed journals; (Detail)</p> <p>IV.B.2.a).(2) publication of peer-reviewed performance improvement or education research; (Detail)</p> <p>IV.B.2.a).(3) peer-reviewed funding; or, (Detail)</p> <p>IV.B.2.a).(4) peer-reviewed abstracts presented at regional, state, or national specialty meetings. (Detail)</p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate fellow involvement in scholarly activities. (Detail)</p>
Infectious Disease	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance fellows' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. (Core)</p> <p>IV.B.2. Fellows should participate in scholarly activity. (Core)</p> <p>IV.B.2.a) The majority of fellows must demonstrate evidence of scholarship conducted during the fellowship (Outcome)</p> <p>This should be achieved through one or more of the following:</p> <p>IV.B.2.a).(1) publication of articles, book chapters, abstracts or case reports in peer-reviewed journals; (Detail)</p> <p>IV.B.2.a).(2) publication of peer-reviewed performance improvement or education research; (Detail)</p> <p>IV.B.2.a).(3) peer-reviewed funding; or, (Detail)</p> <p>IV.B.2.a).(4) peer-reviewed abstracts presented at regional, state, or national specialty meetings. (Detail)</p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate fellow involvement in scholarly activities. (Detail)</p>
Interventional Cardiology	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. Each program must provide an opportunity for fellows to participate in research or other scholarly activities, including: (Core)</p> <p>IV.B.1.a) a research project (with faculty mentorship); or, (Detail)</p> <p>IV.B.1.b) participation with the faculty in the initiation and conduct of clinical trials within the department; or, (Detail)</p> <p>IV.B.1.c) participation in quality assurance/quality improvement or process improvement projects. (Detail)</p>

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Medical Oncology	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance fellows' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. (Core)</p> <p>IV.B.2. Fellows should participate in scholarly activity. (Core)</p> <p>IV.B.2.a) The majority of fellows must demonstrate evidence of scholarship conducted during the fellowship (Outcome)</p> <p>This should be achieved through one or more of the following:</p> <p>IV.B.2.a).(1) publication of articles, book chapters, abstracts or case reports in peer-reviewed journals; (Detail)</p> <p>IV.B.2.a).(2) publication of peer-reviewed performance improvement or education research; (Detail)</p> <p>IV.B.2.a).(3) peer-reviewed funding; or, (Detail)</p> <p>IV.B.2.a).(4) peer-reviewed abstracts presented at regional, state, or national specialty meetings. (Detail)</p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate fellow involvement in scholarly activities. (Detail)</p>
Nephrology	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance fellows' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. (Core)</p> <p>IV.B.2. Fellows should participate in scholarly activity. (Core)</p> <p>IV.B.2.a) The majority of fellows must demonstrate evidence of scholarship conducted during the fellowship (Outcome)</p> <p>This should be achieved through one or more of the following:</p> <p>IV.B.2.a).(1) publication of articles, book chapters, abstracts or case reports in peer-reviewed journals; (Detail)</p> <p>IV.B.2.a).(2) publication of peer-reviewed performance improvement or education research; (Detail)</p> <p>IV.B.2.a).(3) peer-reviewed funding; or, (Detail)</p> <p>IV.B.2.a).(4) peer-reviewed abstracts presented at regional, state, or national specialty meetings. (Detail)</p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate fellow involvement in scholarly activities. (Detail)</p>
Pulmonary Disease and Critical Care Medicine	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance fellows' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. (Core)</p> <p>IV.B.2. Fellows should participate in scholarly activity. (Core)</p> <p>IV.B.2.a) The majority of fellows must demonstrate evidence of scholarship conducted during the fellowship (Outcome)</p>

Specialty	Specialty-specific Program Requirements
	<p>This should be achieved through one or more of the following:</p> <p>IV.B.2.a).(1) publication of articles, book chapters, abstracts or case reports in peer-reviewed journals; ^(Detail)</p> <p>IV.B.2.a).(2) publication of peer-reviewed performance improvement or education research; ^(Detail)</p> <p>IV.B.2.a).(3) peer-reviewed funding; or, ^(Detail)</p> <p>IV.B.2.a).(4) peer-reviewed abstracts presented at regional, state, or national specialty meetings. ^(Detail)</p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate fellow involvement in scholarly activities. ^(Detail)</p>
Pulmonary Disease	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance fellows' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. ^(Core)</p> <p>IV.B.2. Fellows should participate in scholarly activity. ^(Core)</p> <p>IV.B.2.a) The majority of fellows must demonstrate evidence of scholarship conducted during the fellowship ^(Outcome)</p> <p>This should be achieved through one or more of the following:</p> <p>IV.B.2.a).(1) publication of articles, book chapters, abstracts or case reports in peer-reviewed journals; ^(Detail)</p> <p>IV.B.2.a).(2) publication of peer-reviewed performance improvement or education research; ^(Detail)</p> <p>IV.B.2.a).(3) peer-reviewed funding; or, ^(Detail)</p> <p>IV.B.2.a).(4) peer-reviewed abstracts presented at regional, state, or national specialty meetings. ^(Detail)</p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate fellow involvement in scholarly activities. ^(Detail)</p>
Rheumatology	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance fellows' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. ^(Core)</p> <p>IV.B.2. Fellows should participate in scholarly activity. ^(Core)</p> <p>IV.B.2.a) The majority of fellows must demonstrate evidence of scholarship conducted during the fellowship ^(Outcome)</p> <p>This should be achieved through one or more of the following:</p> <p>IV.B.2.a).(1) publication of articles, book chapters, abstracts or case reports in peer-reviewed journals; ^(Detail)</p> <p>IV.B.2.a).(2) publication of peer-reviewed performance improvement or education research; ^(Detail)</p> <p>IV.B.2.a).(3) peer-reviewed funding; or, ^(Detail)</p> <p>IV.B.2.a).(4) peer-reviewed abstracts presented at regional, state, or national specialty meetings. ^(Detail)</p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to</p>

Specialty	Specialty-specific Program Requirements
	<p align="center">facilitate fellow involvement in scholarly activities. <small>(Detail)</small></p>
Transplant Hepatology	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. Each program must provide an opportunity for fellows to participate in research or other scholarly activities, including: <small>(Core)</small></p> <p>IV.B.1.a) a research project (with faculty mentorship); or, <small>(Detail)</small></p> <p>IV.B.1.b) participation with the faculty in the initiation and conduct of clinical trials within the department; or, <small>(Detail)</small></p> <p>IV.B.1.c) participation in quality assurance/quality improvement or process improvement projects. <small>(Detail)</small></p>
Interventional Radiology	<p>IV.B. Residents' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance residents' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. <small>(Core)</small></p> <p>IV.B.2. Residents should participate in scholarly activity. <small>(Core)</small></p> <p>IV.B.2.a) Residents must have education in critical thinking and research design using methods such as lectures and journal club. <small>(Core)</small></p> <p>IV.B.2.b) Residents must engage in a scholarly project under faculty member supervision. <small>(Core)</small></p> <p>IV.B.2.b).(1) Resident scholarly projects should include one of the following: laboratory research, clinical research, case reports, or evidence-based analysis of disease processes, imaging techniques, or practice management issues. <small>(Detail)</small></p> <p>IV.B.2.b).(2) The results of such projects must be published or presented at departmental, institutional, local, regional, or national meetings, and must be included in residents' Learning Portfolios. <small>(Outcome)</small></p> <p>IV.B.2.b).(3) The program must specify how each project will be evaluated. <small>(Core)</small></p> <p>IV.B.2.c) The program should provide opportunities for research in new technologies. <small>(Detail)</small></p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate resident involvement in scholarly activities. <small>(Detail)</small></p>
Medical Genetics and Genomics	<p>IV.B. Residents' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance residents' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. <small>(Core)</small></p> <p>IV.B.2. Residents should participate in scholarly activity. <small>(Core)</small></p> <p>IV.B.2.a) Each resident must demonstrate scholarship through submission of at least one scientific presentation, abstract, or publication. <small>(Detail)</small></p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate resident involvement in scholarly activities. <small>(Detail)</small></p>

Specialty	Specialty-specific Program Requirements
Medical Biochemical Genetics	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance fellows' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. <small>(Core)</small></p> <p>IV.B.2. Fellows must participate in scholarly activity. <small>(Core)</small></p> <p>IV.B.3. The sponsoring institution and program must allocate adequate educational resources to facilitate fellow involvement in scholarly activities. <small>(Core)</small></p>
Neurological Surgery	<p>IV.B. Residents' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance residents' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. <small>(Core)</small></p> <p>IV.B.2. Residents should participate in scholarly activity. <small>(Core)</small></p> <p>IV.B.2.a) Residents must participate in the development of new knowledge, learn to evaluate research findings, and develop habits of inquiry as a continuing professional responsibility. <small>(Core)</small></p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate resident involvement in scholarly activities. <small>(Detail)</small></p>
Neurology	<p>IV.B. Residents' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance residents' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. <small>(Core)</small></p> <p>IV.B.2. Residents should participate in scholarly activity. <small>(Core)</small></p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate resident involvement in scholarly activities. <small>(Detail)</small></p>

Specialty	Specialty-specific Program Requirements
Child Neurology	<p>IV.B. Residents' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance residents' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. (Core)</p> <p>IV.B.2. Residents should participate in scholarly activity. (Core)</p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate resident involvement in scholarly activities. (Detail)</p> <p>IV.B.4. The curriculum must advance residents' knowledge of the basic principles of evidence-based medicine and research, including how research is conducted, evaluated, explained to patients, and applied to patient care. (Core)</p> <p>IV.B.5. Residents should participate in scholarly activity under the mentorship of program faculty members. (Core)</p> <p>IV.B.6. The sponsoring institution and program should allocate adequate educational resources to facilitate resident involvement in scholarly activities. (Core)</p> <p>IV.B.7. Residents should receive support to attend one regional, national, or international professional conference during the program. (Detail)</p> <p>IV.B.8. Child neurology education must be conducted in centers where there is active ongoing research in both clinical and basic neuroscience fields. (Detail)</p>
Neurodevelopmental Disabilities	<p>IV.B. Residents' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance residents' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. (Core)</p> <p>IV.B.2. Residents should participate in scholarly activity. (Core)</p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate resident involvement in scholarly activities. (Detail)</p> <p>IV.B.4. The curriculum must advance residents' knowledge of the basic principles of evidence-based medicine and research, including how research is conducted, evaluated, explained to patients, and applied to patient care. (Core)</p> <p>IV.B.5. Residents should participate in scholarly activity under the mentorship of program faculty members. (Core)</p> <p>IV.B.6. The sponsoring institution and program should allocate adequate educational resources to facilitate resident involvement in scholarly activities. (Core)</p> <p>IV.B.7. Residents should receive support to attend one regional, national, or international professional conference during the program. (Detail)</p>

Specialty	Specialty-specific Program Requirements
Nuclear Medicine	<p>IV.B. Residents' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance residents' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. (Core)</p> <p>IV.B.2. Residents should participate in scholarly activity. (Core)</p> <p>IV.B.2.a) All residents must participate in a scholarly project under faculty member supervision. (Core)</p> <p>IV.B.2.a).(1) The scholarly project should take the form of laboratory research, clinical research, or the analysis of disease processes, imaging techniques, or practice management issues. (Detail)</p> <p>IV.B.2.a).(2) The results must be published or presented at institutional, local, regional, or national meetings, and included in the Resident Learning Portfolio. (Outcome)</p> <p>IV.B.2.a).(3) The program must specify how each project will be evaluated. (Detail)</p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate resident involvement in scholarly activities. (Detail)</p>
Obstetrics and Gynecology	<p>IV.B. Residents' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance residents' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. (Core)</p> <p>IV.B.2. Residents should participate in scholarly activity. (Core)</p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate resident involvement in scholarly activities. (Detail)</p>
Gynecologic Oncology	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance fellows' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. (Core)</p> <p>IV.B.2. Fellows should participate in scholarly activity. (Core)</p> <p>IV.B.2.a) The goals and objectives of research rotations must be reviewed by the fellows with their research mentors. (Core)</p> <p>IV.B.2.b) The research curriculum must include:</p> <p>IV.B.2.b).(1) didactic instruction in research design, grant writing, research methodology, scientific writing, and presentation skills; (Detail)</p> <p>IV.B.2.b).(2) enhancement of fellows' understanding of the latest scientific techniques and encouragement of interaction with other scientists; (Core)</p> <p>IV.B.2.b).(3) the opportunity to present their academic contributions to the gynecologic oncology community; (Core)</p> <p>IV.B.2.b).(4) preparation to pursue research funding and academic positions; and, (Core)</p> <p>IV.B.2.b).(5) preparation to be an independent investigator. (Core)</p>

Specialty	Specialty-specific Program Requirements
	<p>IV.B.2.c) Scholarly Paper (Thesis)</p> <p>The program must ensure that each fellow completes a thesis and defends it during his/her fellowship. (Core)</p> <p>IV.B.2.c).(1) A copy of the manuscript and the thesis defense documentation must be available upon request. (Core)</p> <p>IV.B.2.c).(2) Under the direction of a faculty mentor, each fellow must complete a comprehensive written scholarly paper during the program that demonstrates: (Core)</p> <p>IV.B.2.c).(2).(a) utilization of advanced research methodology and techniques, including research design and quantitative analysis; (Core)</p> <p>IV.B.2.c).(2).(b) collection and statistical analysis of information obtained from a structured basic translational and/or clinical research setting; and, (Core)</p> <p>IV.B.2.c).(2).(c) synthesis of the scientific literature, hypothesis testing, and description of findings and results. (Core)</p> <p>IV.B.2.d) Prior to completion of the fellowship, each fellow must have:</p> <p>IV.B.2.d).(1) a thesis of such quality as to allow him/her admittance to the American Board of Obstetrics and Gynecology or American Osteopathic Association Subspecialty Oral Examination; (Core)</p> <p>IV.B.2.d).(2) completed the work on the thesis; (Core)</p> <p>IV.B.2.d).(3) completed and submitted a written manuscript to the program director; and, (Core)</p> <p>IV.B.2.d).(4) defended the thesis to the program director, research mentor, or thesis committee, and other members of the Division. (Core)</p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate fellow involvement in scholarly activities. (Detail)</p>
Maternal-Fetal Medicine	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance fellows' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. (Core)</p> <p>IV.B.2. Fellows should participate in scholarly activity. (Core)</p> <p>IV.B.2.a) The goals and objectives of research rotations must be reviewed by a fellow with his/her research mentor. (Core)</p> <p>IV.B.2.b) A fellow's research curriculum must include:</p> <p>IV.B.2.b).(1) biostatistics, epidemiology, research design, and research methods, including basic science techniques; (Core)</p> <p>IV.B.2.b).(2) opportunities for structured basic, translational, and/or clinical research; (Core)</p> <p>IV.B.2.b).(3) enhancement of the fellow's understanding of the latest scientific techniques and encouragement of interaction with other scientists; (Core)</p>

Specialty	Specialty-specific Program Requirements
	<p>IV.B.2.b).(4) the opportunity for the fellow to present his/her academic contributions to the maternal-fetal medicine community; and, ^(Core)</p> <p>IV.B.2.b).(5) preparation of the fellow to obtain research funding and academic positions. ^(Core)</p> <p>IV.B.2.c) Scholarly Paper (Thesis)</p> <p>The program must ensure that each fellow completes a thesis and defends it during his/her fellowship program. ^(Core)</p> <p>IV.B.2.c).(1) A copy of the manuscript and the thesis defense documentation must be available upon request. ^(Core)</p> <p>IV.B.2.c).(2) Under the direction of a faculty mentor, each fellow must complete a comprehensive written scholarly paper (thesis) during the program that demonstrates the following: ^(Core)</p> <p>IV.B.2.c).(2).(a) utilization of advanced research methodology and techniques, including research design and quantitative analysis; ^(Core)</p> <p>IV.B.2.c).(2).(b) collection and statistical analysis of information obtained from a structured basic, translational, and/or clinical research setting; and, ^(Core)</p> <p>IV.B.2.c).(2).(c) synthesis of the scientific literature, hypothesis testing, and description of findings and results. ^(Core)</p> <p>IV.B.2.d) Prior to completion of the fellowship, each fellow must have:</p> <p>IV.B.2.d).(1) a completed thesis of such quality as to allow him/her admittance to the American Board of Obstetrics and Gynecology or American Osteopathic Association Subspecialty Oral Examination for Maternal-Fetal Medicine; ^(Core)</p> <p>IV.B.2.d).(2) completed and submitted a written manuscript to the program director; and, ^(Core)</p> <p>IV.B.2.d).(3) defended the thesis to their program director, research mentor, or thesis committee, and other appropriate members of the Division. ^(Core)</p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate fellow involvement in scholarly activities. ^(Detail)</p>
<p>Reproductive Endocrinology and Infertility</p>	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance fellows' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. ^(Core)</p> <p>IV.B.2. Fellows should participate in scholarly activity. ^(Core)</p> <p>IV.B.2.a) The goals and objectives of the research rotations must be reviewed by the fellow with his/her research mentor. ^(Core)</p> <p>IV.B.2.b) The research curriculum must include:</p> <p>IV.B.2.b).(1) opportunities for structured basic, translational, and/or clinical research; ^(Core)</p>

Specialty	Specialty-specific Program Requirements
	<p>IV.B.2.b).(2) enhancement of the fellows' understanding of the latest scientific techniques and encouragement of interaction with other scientists; ^(Core)</p> <p>IV.B.2.b).(3) the opportunity for the fellows to present their academic contributions to the national reproductive endocrinology and infertility community; ^(Core)</p> <p>IV.B.2.b).(4) preparation of the fellows to obtain research funding and academic positions; and, ^(Core)</p> <p>IV.B.2.b).(5) preparation of the fellows to be independent investigators. ^(Core)</p> <p>IV.B.2.c) Scholarly Paper (Thesis)</p> <p>The program must ensure that each fellow completes a thesis and defends it during his/her fellowship program.</p> <p>IV.B.2.c).(1) A copy of the manuscript and the thesis defense documentation must be available upon request. ^(Core)</p> <p>IV.B.2.c).(2) Under the direction of a faculty mentor, the fellow must complete a comprehensive written scholarly paper (thesis) during the program that demonstrates the following: ^(Core)</p> <p>IV.B.2.c).(2).(a) utilization of advanced research methodology and techniques, including research design and quantitative analysis; ^(Core)</p> <p>IV.B.2.c).(2).(b) collection and statistical analysis of information obtained from a structured basic, translational, and/or clinical research setting; and, ^(Core)</p> <p>IV.B.2.c).(2).(c) synthesis of the scientific literature, hypothesis testing, and description of findings and results. ^(Core)</p> <p>IV.B.2.c).(3) Prior to completion of the fellowship, each fellow must have:</p> <p>IV.B.2.c).(3).(a) a thesis of such quality as to allow him/her admittance to the American Board of Obstetrics and Gynecology or American Osteopathic Association Subspecialty Oral Examination; ^(Core)</p> <p>IV.B.2.c).(3).(b) completed the work on the thesis; ^(Core)</p> <p>IV.B.2.c).(3).(c) completed and submitted a written manuscript to the program director; ^(Core)</p> <p>IV.B.2.c).(3).(d) defended the thesis to the program director, research mentor, or thesis committee, and other members of the Division; and, ^(Core)</p> <p>IV.B.2.c).(3).(e) a formal written assessment of the thesis defense by the faculty. ^(Outcome)</p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate fellow involvement in scholarly activities. ^(Detail)</p>

Specialty	Specialty-specific Program Requirements
Ophthalmology	<p>IV.B. Residents' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance residents' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. <small>(Core)</small></p> <p>IV.B.2. Residents should participate in scholarly activity. <small>(Core)</small></p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate resident involvement in scholarly activities. <small>(Detail)</small></p>
Ophthalmic Plastic and Reconstructive Surgery	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance fellows' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. <small>(Core)</small></p> <p>IV.B.2. Fellows should participate in scholarly activity. <small>(Core)</small></p> <p>IV.B.2.a) Research activities should include participation in clinical trials, prospective and retrospective studies, case reports, and basic science research where feasible. <small>(Detail)</small></p> <p>IV.B.2.b) Fellows should attend local and regional conferences relevant to ophthalmic plastic and reconstructive surgery. <small>(Detail)</small></p> <p>IV.B.2.c) Fellows must actively participate, along with the ophthalmic plastic and reconstructive surgery faculty, in a journal club three times per year. The fellow and faculty should present and critically discuss selections from the current literature. <small>(Detail)</small></p> <p>IV.B.2.d) Each fellow should be a lead author of one peer-reviewed publication related to ophthalmic surgery during fellowship education. <small>(Detail)</small></p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate fellow involvement in scholarly activities. <small>(Detail)</small></p>
Orthopaedic Surgery	<p>IV.B. Residents' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance residents' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. <small>(Core)</small></p> <p>IV.B.1.a) Resident education must include instruction in experimental design, hypothesis testing, and other current research methods, as well as participation in clinical or basic research. <small>(Detail)</small></p> <p>IV.B.2. Residents should participate in scholarly activity. <small>(Core)</small></p> <p>IV.B.2.a) Each resident must demonstrate scholarship through at least one of the following activities:</p> <p>IV.B.2.a).(1) participation in sponsored research; <small>(Outcome)</small></p> <p>IV.B.2.a).(2) preparation of an article for a peer-reviewed publication; <small>(Outcome)</small></p> <p>IV.B.2.a).(3) presentation of research at a regional or national meeting; or, <small>(Outcome)</small></p> <p>IV.B.2.a).(4) participation in a structured literature review of an important topic. <small>(Outcome)</small></p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to</p>

Specialty	Specialty-specific Program Requirements
	<p align="center">facilitate resident involvement in scholarly activities. <small>(Detail)</small></p>
<p align="center">Orthopaedic Surgery Subspecialties</p>	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. Fellows must participate in basic and/or clinical hypothesis-based research. <small>(Core)</small></p> <p>IV.B.2. Fellows must learn to design, implement, and interpret research studies under supervision by qualified faculty members. <small>(Outcome)</small></p> <p>IV.B.3. The program must provide scheduled and protected time and facilities for research activities by fellows. <small>(Detail)</small></p>
<p>Osteopathic Neuromusculoskeletal Medicine</p>	<p>IV.B. Residents' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance residents' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. <small>(Core)</small></p> <p>IV.B.1.a) The program must provide education in the interpretation of basic science and clinical research and literature, and the application of the information gathered from these sources. <small>(Core)</small></p> <p>IV.B.1.b) The program must provide education in research design specific to an osteopathic manipulative medical setting. <small>(Core)</small></p> <p>IV.B.2. Residents should participate in scholarly activity. <small>(Core)</small></p> <p>IV.B.2.a) Residents must complete scholarly activity related to osteopathic neuromusculoskeletal medicine. <small>(Core)</small></p> <p>IV.B.2.b) Resident scholarly activity must be approved by the program director. <small>(Core)</small></p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate resident involvement in scholarly activities. <small>(Detail)</small></p> <p>IV.B.4. Residents must participate in local, state, and/or national professional organizations. <small>(Core)</small></p>
<p>Otolaryngology</p>	<p>IV.B. Residents' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance residents' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. <small>(Core)</small></p> <p>IV.B.2. Residents should participate in scholarly activity. <small>(Core)</small></p> <p>IV.B.2.a) The educational program must provide at least three months of a structured research experience for residents. <small>(Core)</small></p> <p>IV.B.2.a).(1) The research experience must include instruction in research methods and design, as well as outcome assessment. <small>(Core)</small></p> <p>IV.B.2.a).(2) The research experience should result in a completed manuscript suitable for publication in a peer-reviewed journal. <small>(Outcome)</small></p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate resident involvement in scholarly activities. <small>(Detail)</small></p>

Specialty	Specialty-specific Program Requirements
Neurotology	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance fellows' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. ^(Core)</p> <p>IV.B.1.a) The curriculum must include research methodology. ^(Detail)</p> <p>IV.B.1.a) Fellows should study epidemiology, statistical methods, experimental design, and manuscript preparation. ^(Detail)</p> <p>IV.B.2. Fellows should participate in scholarly activity. ^(Core)</p> <p>IV.B.2.a) During the course of the fellowship, each fellow should prepare and submit, at minimum, one paper for publication in a peer-reviewed journal. ^(Outcome)</p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate fellow involvement in scholarly activities. ^(Detail)</p> <p>IV.B.3.a) This must include protected time, not to exceed six months, for the pursuit of scholarly activities and research. ^(Core)</p>
Pediatric Otolaryngology	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. Fellows' scholarly activity initiated or completed during the program, including scientific study, production of review articles or chapters, or creation of online educational activities, must be documented. ^(Outcome)</p>
Pathology	<p>IV.B. Residents' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance residents' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. ^(Core)</p> <p>IV.B.2. Residents should participate in scholarly activity. ^(Core)</p> <p>IV.B.2.a) The program should provide an environment that promotes research and scholarly activity by the residents. ^(Detail)</p> <p>IV.B.2.b) Each resident should participate in at least one of the following: ^(Detail)</p> <p>IV.B.2.b).(1) research; ^(Detail)</p> <p>IV.B.2.b).(2) evidence-based presentations at journal club or meetings (local, regional, or national); or, ^(Detail)</p> <p>IV.B.2.b).(3) publication. ^(Detail)</p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate resident involvement in scholarly activities. ^(Detail)</p>

Specialty	Specialty-specific Program Requirements
Blood Banking/Transfusion Medicine Chemical Pathology Cytopathology Forensic Pathology Hematopathology Pediatric Pathology Selective Pathology	IV.B. Fellows' Scholarly Activities IV.B.1. Each fellow must participate in scholarly activity, including at least one of the following: ^(Core) IV.B.1.a) evidence-based presentations at journal club or meetings (local, regional or national); ^(Detail) IV.B.1.b) preparation and submission of articles for peer-reviewed publications; or, ^(Detail) IV.B.1.c) research. ^(Detail)
Blood Banking/Transfusion Medicine Cytopathology Forensic Pathology Hematopathology Pediatric Pathology	IV.B. Fellows' Scholarly Activities IV.B.1. Each fellow must participate in scholarly activity, including at least one of the following: ^(Core) IV.B.1.a) evidence-based presentations at journal club or meetings (local, regional or national); ^(Core) IV.B.1.b) preparation and submission of articles for peer-reviewed publications; or, ^(Core) IV.B.1.c) research. ^(Core)
Chemical Pathology	IV.B. Fellows' Scholarly Activities IV.B.1. Each fellow must participate in scholarly activity, including at least one of the following: ^(Core) IV.B.1.a) evidence-based presentations at journal club or meetings (local, regional, or national); ^(Core) IV.B.1.b) preparation and submission of articles for peer-reviewed publications; or, ^(Core) IV.B.1.c) research. ^(Core) IV.B.2. Each fellow must participate in research and development or evaluation of new testing methods in clinical chemistry. ^(Core)
Medical Microbiology	IV.B. Fellows' Scholarly Activities IV.B.1. Each fellow must participate in scholarly activity, including at least one of the following: ^(Core) IV.B.1.a) evidence-based presentations at journal club or meetings (local, regional or national); ^(Detail) IV.B.1.b) preparation and submission of articles for peer-reviewed publications; or, ^(Detail) IV.B.1.c) research. ^(Detail) IV.B.2. Each fellow must participate in research and development or evaluation of new testing methods for medical microbiology, infectious diseases, and/or epidemiology. ^(Core)

Specialty	Specialty-specific Program Requirements
Medical Microbiology	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. Each fellow must participate in scholarly activity, including at least one of the following: ^(Core)</p> <p>IV.B.1.a) evidence-based presentations at journal club or meetings (local, regional, or national); ^(Core)</p> <p>IV.B.1.b) preparation and submission of articles for peer-reviewed publications; or, ^(Core)</p> <p>IV.B.1.c) research. ^(Core)</p> <p>IV.B.2. Each fellow must participate in research and development or evaluation of new testing methods for medical microbiology, infectious diseases, and/or epidemiology. ^(Core)</p>
Selective Pathology	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. Each fellow must participate in scholarly activity, including at least one of the following: ^(Core)</p> <p>IV.B.1.a) evidence-based presentations at journal club or meetings (local, regional, or national); ^(Core)</p> <p>IV.B.1.b) preparation and submission of articles for peer-reviewed publications; or, ^(Core)</p> <p>IV.B.1.c) clinical or basic science research projects. ^(Core)</p>
Pediatrics	<p>IV.B. Residents' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance residents' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. ^(Core)</p> <p>IV.B.2. Residents should participate in scholarly activity. ^(Core)</p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate resident involvement in scholarly activities. ^(Detail)</p>

Specialty	Specialty-specific Program Requirements
Pediatric Subspecialties	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance fellows' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. <small>(Core)</small></p> <p>IV.B.2. Fellows should participate in scholarly activity. <small>(Core)</small></p> <p>IV.B.2.a) Each fellow must design and conduct a scholarly project in his or her subspecialty area with the guidance of the fellowship director and a designated mentor. <small>(Core)</small></p> <p>IV.B.2.b) The program must provide a scholarship oversight committee for each fellow to evaluate the fellow's progress as related to scholarly activity. <small>(Core)</small></p> <p>IV.B.2.c) The scholarly experience must begin in the first year and continue for the entire period of training. <small>(Detail)</small></p> <p>IV.B.2.c).(1) Time must be adequate to allow for the development of requisite skills, project completion, and presentation of results to a local scholarship oversight committee established for this review. <small>(Detail)</small></p> <p>IV.B.2.c).(1).(a) Where applicable, the process of establishing fellow scholarship oversight committees should be a collaborative effort involving other pediatric subspecialty programs in the institution. <small>(Detail)</small></p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate fellow involvement in scholarly activities. <small>(Detail)</small></p>
Pediatric Subspecialties	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance fellows' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. <small>(Core)</small></p> <p>IV.B.1.a) Where appropriate, the core curriculum in scholarly activity should be a collaborative effort involving all of the pediatric subspecialty programs in the institution. <small>(Detail)</small></p> <p>IV.B.2. Fellows should participate in scholarly activity. <small>(Core)</small></p> <p>IV.B.2.a) Each fellow must design and conduct a scholarly project in his or her subspecialty area with the guidance of the fellowship director and a designated mentor. <small>(Core)</small></p> <p>IV.B.2.b) The program must provide a scholarship oversight committee for each fellow to oversee and evaluate the fellow's progress as related to scholarly activity. <small>(Core)</small></p> <p>IV.B.2.b).(1) Where applicable, the process of establishing fellow scholarship oversight committees should be a collaborative effort involving other pediatric subspecialty programs at the institution. <small>(Detail)</small></p> <p>IV.B.2.c) The scholarly experience must begin in the first year and continue for the entire period of training. <small>(Core)</small></p> <p>IV.B.2.c).(1) There must be adequate time for each fellow to allow for the development of requisite skills, project completion, and presentation of results to the scholarship oversight committee. <small>(Detail)</small></p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate fellow involvement in scholarly activities. <small>(Detail)</small></p>

Specialty	Specialty-specific Program Requirements
Pediatric Transplant Hepatology	None
Physical Medicine and Rehab	<p>IV.B. Residents' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance residents' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. <small>(Core)</small></p> <p>IV.B.2. Residents should participate in scholarly activity. <small>(Core)</small></p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate resident involvement in scholarly activities. <small>(Detail)</small></p>
Pediatric Rehabilitation Medicine	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance fellows' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. <small>(Core)</small></p> <p>IV.B.2. Fellows should participate in structured, supervised research education. <small>(Detail)</small></p> <p>IV.B.3. Each fellow should demonstrate scholarship through at least one scientific presentation, abstract, or publication. <small>(Outcome)</small></p>
Spinal Cord Injury Medicine	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. Fellows should have assigned time to conduct research or other scholarly activities. <small>(Detail)</small></p> <p>IV.B.2. Each fellow should demonstrate scholarship through at least one scientific presentation, abstract, or publication. <small>(Outcome)</small></p>
Plastic Surgery	<p>IV.B. Residents' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance residents' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. <small>(Core)</small></p> <p>IV.B.2. Residents should participate in scholarly activity. <small>(Core)</small></p> <p>IV.B.2.a) All residents must demonstrate annual scholarship to include one or more of the following: <small>(Core)</small></p> <p>IV.B.2.a).(1) peer-reviewed publications with PMID; or, <small>(Detail)</small></p> <p>IV.B.2.a).(2) conference presentations, including abstracts and posters, given at international, national, or regional meetings; or, <small>(Detail)</small></p> <p>IV.B.2.a).(3) textbook chapters; or, <small>(Detail)</small></p> <p>IV.B.2.a).(4) participated in funded or non-funded basic science or clinical outcomes research projects; or, <small>(Detail)</small></p> <p>IV.B.2.a).(5) teaching lectures or presentations (such as grand rounds or case presentations) of at least 30 minutes in duration within the Sponsoring Institution or program. <small>(Detail)</small></p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate resident involvement in scholarly activities. <small>(Detail)</small></p>

Specialty	Specialty-specific Program Requirements
Craniofacial Plastic Surgery	<i>None</i>
Preventive Medicine	<p>IV.B. Residents' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance residents' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. <small>(Core)</small></p> <p>IV.B.2. Residents should participate in scholarly activity. <small>(Core)</small></p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate resident involvement in scholarly activities. <small>(Detail)</small></p>
Psychiatry	<p>IV.B. Residents' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance residents' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. <small>(Core)</small></p> <p>IV.B.2. Residents should participate in scholarly activity. <small>(Core)</small></p> <p>IV.B.2.a) The program must provide residents with opportunities for research and development of research skills for residents interested in conducting research in psychiatry or related fields. <small>(Core)</small></p> <p>IV.B.2.b) The program must provide interested residents access to and the opportunity to participate actively in ongoing research under a mentor. <small>(Core)</small></p> <p>IV.B.2.c) All residents must be educated in research literacy and in the concepts and process of evidence-based clinical practice to develop skills in question formulation, information searching, critical appraisal, and medical decision-making. <small>(Core)</small></p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate resident involvement in scholarly activities. <small>(Detail)</small></p>
Psychiatry One-year Subspecialties	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. Fellows must participate in developing new knowledge or evaluating research findings. <small>(Core)</small></p>

Specialty	Specialty-specific Program Requirements
<p>Child and Adolescent Psychiatry</p>	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance fellows' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. ^(Core)</p> <p>IV.B.2. Fellows should participate in scholarly activity. ^(Core)</p> <p>IV.B.2.a) All fellows must be educated in research literacy and in the concepts and process of evidenced-based clinical practice to develop skills in question formulation, information searching, critical appraisal, and medical decision-making. ^(Core)</p> <p>IV.B.2.b) The program must provide opportunities for research and development of research skills for fellows interested in conducting research in psychiatry or related fields. ^(Core)</p> <p>IV.B.2.c) The program must provide interested fellows access to and the opportunity to participate actively in ongoing research under a mentor. ^(Core)</p> <p>IV.B.2.d) The program must ensure the participation of fellows and faculty members in journal clubs, research conferences, didactics, and/or other activities that address critical appraisal of the literature and understanding of the research process. ^(Core)</p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate fellow involvement in scholarly activities. ^(Detail)</p>
<p>Radiation Oncology</p>	<p>IV.B. Residents' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance residents' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. ^(Core)</p> <p>IV.B.2. Residents should participate in scholarly activity. ^(Core)</p> <p>IV.B.2.a) Residents must complete an investigative project under faculty member supervision. ^(Core)</p> <p>IV.B.2.a).(1) Projects should take the form of biological laboratory research, clinical research, translational research, medical physics research, or other research approved by the program director. ^(Detail)</p> <p>IV.B.2.b).(2) The results of such projects should be suitable for publication in peer-reviewed scholarly journals or presentation at scientific meetings. ^(Detail)</p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate resident involvement in scholarly activities. ^(Detail)</p>

Specialty	Specialty-specific Program Requirements
Surgery	<p>IV.B. Residents' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance residents' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. (Core)</p> <p>IV.B.2. Residents should participate in scholarly activity. (Core)</p> <p>IV.B.2.a) The participation of residents in clinical and/or laboratory research is encouraged. (Detail)</p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate resident involvement in scholarly activities. (Detail)</p>
Complex General Surgical Oncology	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. Each fellow must complete a course on clinical research on human subjects, such as the courses approved by the National Institutes of Health Office for Human Research Protections, or an institution-based equivalent. (Core)</p> <p>IV.B.2. Fellows must demonstrate the ability to: design and implement a prospective data base; conduct clinical cancer research, especially prospective clinical trials; use statistical methods to properly evaluate results of published research studies; guide other learners or other personnel in laboratory or clinical oncology research; and navigate the interface of basic science with clinical cancer care to facilitate translational research. (Outcome)</p>
Pediatric Surgery	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance fellows' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. (Core)</p> <p>IV.B.2. Fellows should participate in scholarly activity. (Core)</p> <p>IV.B.2.a) Fellows should understand design, implementation, and interpretation of clinical research studies. (Outcome)</p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate fellow involvement in scholarly activities. (Detail)</p>
Surgical Critical Care	None
Vascular Surgery	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance fellows' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. (Core)</p> <p>IV.B.1.a) Residents must have instruction in critical thinking, design of experiments, and evaluation of data. (Detail)</p> <p>IV.B.2. Fellows should participate in scholarly activity. (Core)</p> <p>IV.B.2.a) Residents should participate in clinical and/or laboratory research. (Detail)</p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate fellow involvement in scholarly activities. (Detail)</p>

Specialty	Specialty-specific Program Requirements
Thoracic Surgery	<p>IV.B. Residents' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance residents' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. <i>(Core)</i></p> <p>IV.B.2. Residents should participate in scholarly activity. <i>(Core)</i></p> <p>IV.B.2.a) A protected research rotation is not permitted during the program. <i>(Core)</i></p> <p>IV.B.2.b) Each Resident must demonstrate annual scholarship in one or more of the following: <i>(Core)</i></p> <p>IV.B.2.b).(1) peer-reviewed publications with PMID; or, <i>(Detail)</i></p> <p>IV.B.2.b).(2) conference presentations, including abstracts and posters, given at international, national, or regional meetings; or, <i>(Detail)</i></p> <p>IV.B.2.b).(3) textbook chapters; or, <i>(Detail)</i></p> <p>IV.B.2.b).(4) participation in basic research, translational research, clinical research or, quality improvement projects; or, <i>(Detail)</i></p> <p>IV.B.2.b).(5) teaching lectures or presentations (such as grand rounds or case presentations) of at least 30 minutes in duration within the Sponsoring Institution or program. <i>(Detail)</i></p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate resident involvement in scholarly activities. <i>(Detail)</i></p> <p>IV.B.3.a) The sponsoring institution and program should provide support for residents' attendance at national professional meetings. <i>(Detail)</i></p>
Congenital Cardiac Thoracic Surgery	<i>None</i>
Urology	<p>IV.B. Residents' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance residents' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. <i>(Core)</i></p> <p>IV.B.2. Residents should participate in scholarly activity. <i>(Core)</i></p> <p>IV.B.2.a) Residents must demonstrate scholarly activity, including manuscript preparation, lectures, teaching activities, abstracts, and/or active performance of research or participation in clinical studies and reviews. <i>(Outcome)</i></p> <p>IV.B.2.b) Research included in the clinical years should not exceed a maximum of six months, and regular clinical duties must be assigned concurrently. <i>(Core)</i></p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate resident involvement in scholarly activities. <i>(Detail)</i></p>

Specialty	Specialty-specific Program Requirements
Pediatric Urology	<p>IV.B. Fellows' Scholarly Activities</p> <p>Fellows' documentation of their scholarly activity must be demonstrated by manuscript preparation, lectures, teaching activities, abstracts, and active performance of research, or participation in clinical studies and reviews. <small>(Outcome)</small></p>
Transitional Year	<p>IV.B. Residents' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance residents' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. <small>(Core)</small></p> <p>IV.B.2. Residents should participate in scholarly activity. <small>(Core)</small></p> <p>IV.B.2.a) Participation should include each resident's presentation of a case report or a presentation to colleagues on a subject of interest, and/or development of a research or quality improvement project. <small>(Detail)</small></p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate resident involvement in scholarly activities. <small>(Detail)</small></p>
Multidisciplinary Subspecialties	
Brain Injury Medicine (subspecialty of Child Neurology, Neurology, Physical Medicine and Rehabilitation, or Psychiatry)	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance fellows' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. <small>(Core)</small></p> <p>IV.B.2. Fellows should have assigned time to conduct research or other scholarly activities. <small>(Detail)</small></p> <p>IV.B.3. Each fellow should demonstrate scholarship through at least one scientific presentation, abstract, or publication. <small>(Outcome)</small></p>
Clinical Neurophysiology (subspecialty of Child Neurology or Neurology) Epilepsy (subspecialty of Child Neurology or Neurology) Vascular Neurology (subspecialty of Child Neurology or Neurology)	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance fellows' knowledge of the basic principles of evidence-based medicine and research, including how research is conducted, evaluated, explained to patients, and applied to patient care. <small>(Core)</small></p> <p>IV.B.2. Fellows should participate in scholarly activity under the mentorship of program faculty members. <small>(Core)</small></p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate fellow involvement in scholarly activities. <small>(Core)</small></p> <p>IV.B.4. Fellows should receive support to attend one regional, national, or international professional conference during the program. <small>(Detail)</small></p>

Specialty	Specialty-specific Program Requirements
Clinical Informatics (subspecialty of Anesthesiology, Diagnostic Radiology, Emergency Medicine, Family Medicine, Internal Medicine, Medical Genetics and Genomics, Pathology, Pediatrics, or Preventive Medicine)	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance fellows' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. ^(Core)</p> <p>IV.B.2. Fellows should participate in scholarly activity. ^(Core)</p> <p>IV.B.2.a) Scholarly activity should include at least one of the following:</p> <p>IV.B.2.a).(1) peer-reviewed funding and research; ^(Detail)</p> <p>IV.B.2.a).(2) publication of original research or review articles; or, ^(Detail)</p> <p>IV.B.2.a).(3) presentations at local, regional, or national professional and scientific society meetings. ^(Detail)</p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate fellow involvement in scholarly activities. ^(Detail)</p>
Dermatopathology (subspecialty of Dermatology or Pathology)	<p>IV.B. Fellows' Scholarly Activities</p> <p>Each fellow must participate in scholarly activity by publishing or preparing one or more manuscripts suitable for submission to a peer-reviewed publication and/or giving at least one presentation at a regional or national professional society meeting on topics relevant to dermatopathology. ^(Outcome)</p>
Endovascular Surgical Neuroradiology (subspecialty of Child Neurology, Neurological Surgery, Neurology, or Diagnostic Radiology)	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance fellows' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. ^(Core)</p> <p>IV.B.2. Fellows should participate in scholarly activity. ^(Detail)</p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate fellow involvement in scholarly activities. ^(Detail)</p>

Specialty	Specialty-specific Program Requirements
Female Pelvic Medicine and Reconstructive Surgery (subspecialty of Obstetrics and Gynecology or Urology)	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance fellows' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. <small>(Core)</small></p> <p>IV.B.2. Fellows should participate in scholarly activity. <small>(Core)</small></p> <p>IV.B.2.a) Each fellow, under the direction of a faculty mentor, must complete a comprehensive written scholarly paper or quality improvement project (thesis) during the program that demonstrates the following: <small>(Outcome)</small></p> <p>IV.B.2.a).(1) utilization of advanced research methodology and techniques, including research design and quantitative analysis; <small>(Outcome)</small></p> <p>IV.B.2.a).(2) collection and statistical analysis of information obtained from a structured basic laboratory and/or clinical research setting; and, <small>(Outcome)</small></p> <p>IV.B.2.a).(3) synthesis of the scientific literature, hypothesis testing, and description of findings and results. <small>(Outcome)</small></p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate fellow involvement in scholarly activities. <small>(Detail)</small></p>
Geriatric Medicine (subspecialty of Family Medicine or Internal Medicine)	<p>IV.B. Fellows' Scholarly Activities</p> <p>The program must provide an opportunity for each fellow to participate in research or other scholarly activities. <small>(Detail)</small></p>
Hand Surgery (subspecialty of Orthopaedic Surgery, Plastic Surgery, or Surgery)	<p>IV.B. Residents' Scholarly Activities</p> <p>IV.B.1. Fellows must learn to design, implement, and interpret research studies under supervision by qualified faculty members. <small>(Outcome)</small></p> <p>IV.B.2. The program must provide scheduled and protected time and facilities for research activities by fellows. <small>(Detail)</small></p>
Hospice and Palliative Medicine (subspecialty of Anesthesiology, Family Medicine, Internal Medicine, Pediatrics, Psychiatry, or Radiation Oncology)	<p>IV.B. Fellows' Scholarly Activities</p> <p>Fellows must complete a scholarly or quality improvement project during the program. <small>(Core)</small></p>

Specialty	Specialty-specific Program Requirements
Internal Medicine-Pediatrics (Combined program for Internal Medicine and Pediatrics)	None
Medical Toxicology (subspecialty of Emergency Medicine or Preventive Medicine)	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance fellows' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. ^(Core)</p> <p>IV.B.2. Fellows should participate in scholarly activity. ^(Core)</p> <p>IV.B.2.a) Fellows must participate in clinical and/or professional quality improvement activities. ^(Core)</p> <p>IV.B.2.b) Fellows must participate in research or scholarly activity that includes at least one of the following:</p> <p>IV.B.2.b).(1) peer-reviewed funding and research; ^(Outcome)</p> <p>IV.B.2.b).(2) publication of original research or review articles; or, ^(Outcome)</p> <p>IV.B.2.b).(3) presentations at local, regional, or national professional and scientific society meetings. ^(Outcome)</p> <p>IV.B.2.c) Fellows must complete a scholarly project prior to graduation. ^(Outcome)</p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate fellow involvement in scholarly activities. ^(Detail)</p>
Molecular Genetic Pathology (subspecialty of Medical Genetics and Genomics or Pathology)	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1 Each fellow must participate in scholarly activity, including at least one of the following: ^(Core)</p> <p>IV.B.1.a) evidence-based presentations at journal club or meeting (local, regional, or national); ^(Core)</p> <p>IV.B.1.b) preparation and submission of articles for peer-reviewed publications; or, ^(Core)</p> <p>IV.B.1.c) research. ^(Core)</p>
Neuromuscular Medicine (subspecialty of Child Neurology, Neurology, or Physical Medicine and Rehabilitation)	<p>IV.B. Fellows' Scholarly Activities</p> <p>IV.B.1. The curriculum must advance fellows' knowledge of the basic principles of evidence-based medicine and research, including how research is conducted, evaluated, explained to patients, and applied to patient care. ^(Core)</p> <p>IV.B.2. Fellows should participate in scholarly activity under the mentorship of program faculty members. ^(Core)</p> <p>IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate fellow involvement in scholarly activities. ^(Core)</p> <p>IV.B.4. Fellows should receive support to attend one regional, national, or international professional conference during the program. ^(Detail)</p>

Specialty	Specialty-specific Program Requirements
Pain Medicine (subspecialty of Anesthesiology, Child Neurology, Neurology, or Physical Medicine and Rehabilitation)	IV.B. Fellows' Scholarly Activities IV.B.1. The curriculum must advance fellows' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. <small>(Core)</small> IV.B.2. Fellows should participate in scholarly activity. <small>(Core)</small> IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate fellow involvement in scholarly activities. <small>(Detail)</small>
Sleep Medicine (subspecialty of Child Neurology, Internal Medicine, Neurology, Pediatrics, or Psychiatry)	IV.B. Fellows' Scholarly Activities The program must provide an opportunity for each fellow to participate in research or other scholarly activities. <small>(Core)</small>
Sports Medicine (subspecialty of Emergency Medicine, Family Medicine, Pediatrics, or Physical Medicine and Rehabilitation)	IV.B. Fellows' Scholarly Activities IV.B.1. Each fellow should complete a scholarly or quality improvement project during the program. <small>(Outcome)</small> IV.B.1.a) Evidence of scholarly activity should include at least one of the following: <small>(Detail)</small> IV.B.1.a).(1) peer-reviewed funding and research; <small>(Detail)</small> IV.B.1.a).(2) publication of original research or review articles; or, <small>(Detail)</small> IV.B.1.a).(3) presentations at local, regional, or national professional and scientific society meetings. <small>(Detail)</small>
Undersea and Hyperbaric Medicine (subspecialty of Emergency Medicine or Preventive Medicine)	IV.B. Fellows' Scholarly Activities Research leading to publication should be encouraged. <small>(Detail)</small>