



**Accreditation Council for
Graduate Medical Education**

**ACGME Program Requirements for
Graduate Medical Education
in Radiation Oncology**

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1 **ACGME Program Requirements for Graduate Medical Education**
2 **in Radiation Oncology**

3
4 **Common Program Requirements are in BOLD**

5
6 Where applicable, text in italics describes the underlying philosophy of the requirements in that
7 section. These philosophic statements are not program requirements and are therefore not
8 citable.

9
10 **Introduction**

11
12 **Int.A.** **Residency is an essential dimension of the transformation of the medical**
13 **student to the independent practitioner along the continuum of medical**
14 **education. It is physically, emotionally, and intellectually demanding, and**
15 **requires longitudinally-concentrated effort on the part of the resident.**

16
17 The specialty education of physicians to practice independently is
18 experiential, and necessarily occurs within the context of the health care
19 delivery system. Developing the skills, knowledge, and attitudes leading to
20 proficiency in all the domains of clinical competency requires the resident
21 physician to assume personal responsibility for the care of individual
22 patients. For the resident, the essential learning activity is interaction with
23 patients under the guidance and supervision of faculty members who give
24 value, context, and meaning to those interactions. As residents gain
25 experience and demonstrate growth in their ability to care for patients, they
26 assume roles that permit them to exercise those skills with greater
27 independence. This concept--graded and progressive responsibility--is one
28 of the core tenets of American graduate medical education. Supervision in
29 the setting of graduate medical education has the goals of assuring the
30 provision of safe and effective care to the individual patient; assuring each
31 resident's development of the skills, knowledge, and attitudes required to
32 enter the unsupervised practice of medicine; and establishing a foundation
33 for continued professional growth.

34
35 **Int.B.** Definition

36
37 **Int.B.1.** Radiation oncology is that branch of clinical medicine concerned with the
38 causes, prevention, and treatment of cancer and certain non-neoplastic
39 conditions utilizing ionizing radiation. Radiation oncologists are an integral
40 part of the multidisciplinary management of the cancer patient, and must
41 collaborate closely with physicians and other health care professionals in
42 related disciplines in ~~the management of~~ managing the patient.

43
44 **Int.B.2.** The objective of the residency program is to educate and train physicians
45 to be skillful in the practice of radiation oncology, and to be caring and
46 compassionate in the treatment of patients. ~~To accomplish this goal,~~
47 ~~adequate structure, facilities, faculty, patient resources, and an~~
48 ~~educational environment must be provided.~~

- 50 Int.C. The length of the educational program in radiation oncology must be 60 48
51 months, preceded by in length12 months of post-graduate clinical education.
52 (Core)*
- 53
- 54 I. **Institutions**
- 55
- 56 I.A. **Sponsoring Institution**
- 57
- 58 One sponsoring institution must assume ultimate responsibility for the
59 program, as described in the Institutional Requirements, and this
60 responsibility extends to resident assignments at all participating sites. (Core)
- 61
- 62 The sponsoring institution and the program must ensure that the program
63 director has sufficient protected time and financial support for his or her
64 educational and administrative responsibilities to the program. (Core)
- 65
- 66 I.A.1. The program director should devote a minimum of 10 percent of his or her
67 time to administration of the program. (Core)
- 68
- 69 I.A.2. The Sponsoring Institution must also sponsor ~~other relevant oncology-~~
70 ~~related graduate medical education programs accredited by the~~
71 Accreditation Council for Graduate Medical Education (ACGME),
72 ~~including residencies or fellowships in surgical, medical, and/or pediatric~~
73 ~~oncology, at least one oncology-related fellowship program accredited by~~
74 ~~the ACGME in a surgical, medical, or pediatric subspecialty.~~ (Core)
- 75
- 76 I.A.3. At least 50 percent of the residents' educational experiences should take
77 place at the primary clinical site. (Core)
- 78
- 79 I.B. **Participating Sites**
- 80
- 81 I.B.1. There must be a program letter of agreement (PLA) between the
82 program and each participating site providing a required
83 assignment. The PLA must be renewed at least every five years. (Core)
- 84
- 85 The PLA should:
- 86
- 87 I.B.1.a) identify the faculty who will assume both educational and
88 supervisory responsibilities for residents; (Detail)
- 89
- 90 I.B.1.b) specify their responsibilities for teaching, supervision, and
91 formal evaluation of residents, as specified later in this
92 document; (Detail)
- 93
- 94 I.B.1.c) specify the duration and content of the educational
95 experience; and, (Detail)
- 96
- 97 I.B.1.d) state the policies and procedures that will govern resident
98 education during the assignment. (Detail)
- 99

- 100 I.B.2. The program director must submit any additions or deletions of
101 participating sites routinely providing an educational experience,
102 required for all residents, of one month full time equivalent (FTE) or
103 more through the Accreditation Council for Graduate Medical
104 Education (ACGME) Accreditation Data System (ADS). ^(Core)
- 105
- 106 I.B.3. Assignment to a participating site must be based on a clear educational
107 rationale, be integral to the program curriculum, ~~with have clearly-~~ stated
108 activities and objectives, and ~~should~~ provide resources not otherwise
109 available to the program. ^(Core)
- 110
- 111 I.B.4. When multiple participating sites are used, there must be assurance of
112 the continuity of the educational experience. ^(Core)
- 113
- 114 I.B.5. Integrated Participating sites
- 115
- 116 I.B.5.a) A site is considered integrated when ~~t~~The program director must
117 determines all rotations and assignments of residents, and is
118 responsible for the overall conduct of the educational program and
119 faculty members thereat each participating site. ^(Core)
- 120
- 121 I.B.5.b) Clinical faculty members at the each integrated participating site
122 should have faculty appointments from the Sponsoring Institution
123 or the primary clinical site. ^(Detail)
- 124
- 125 I.B.5.c) Integrated Participating sites must provide a means for direct
126 participation in joint conferences, either in person by attendance
127 when institutions are in geographic proximity to the primary clinical
128 site, or by electronic transmission means when not. ^(Detail Core)
- 129
- 130 I.B.5.d) Prior approval must be obtained from the Review Committee for
131 an integrated the addition of a participating site, regardless of the
132 duration of rotation(s). ^(Core)
- 133
- 134 I.B.5.d).(1) Rotations to integrated sites are not limited in duration.
135 ^(Detail)
- 136
- 137 I.B.6. Other Participating sites
- 138
- 139 ~~Participating sites that do not meet the requirements for integrated sites~~
140 ~~must meet the following requirements:~~
- 141
- 142 I.B.6.a) ~~Participating sites that are not designated as integrated may be~~
143 ~~used to complement residents' educational experiences.~~
- 144
- 145 I.B.6.b) ~~Rotations which are outside the primary clinical site or integrated~~
146 ~~sites must not exceed a total of six months during the residency.~~
147 ^(Core)
- 148
- 149 I.B.6.c) ~~Participating sites do not require prior Review Committee~~
150 ~~approval. There must be a Program Letter of Agreement for any~~

151 site from which cases are entered into resident logs. (See
152 Requirement I.B.1). (Detail)

153

154 II. Program Personnel and Resources

155

156 II.A. Program Director

158 **II.A.1.** There must be a single program director with authority and
159 accountability for the operation of the program. The sponsoring
160 institution's GMEC must approve a change in program director. (Core)

161

162 **II.A.1.a)** The program director must submit this change to the ACGME
163 via the ADS. (Core)

164

165 **II.A.1.b)** The program director should be a full-time faculty member at the
166 primary or at a participating clinical site. (Detail)

167

168 **II.A.1.b).(1)** If at a participating site, the program director should be
169 readily available to residents as needed. (Detail)

170

171 **II.A.2.** The program director should continue in his or her position for a
172 length of time adequate to maintain continuity of leadership and
173 program stability. (Detail)

174

175 **II.A.2.a)** The program director should have an term appointment of at least
176 three years. (Detail)

177

178 **II.A.3.** Qualifications of the program director must include:

179

180 **II.A.3.a)** requisite specialty expertise and documented educational
181 and administrative experience acceptable to the Review
182 Committee; (Core)

183

184 **II.A.3.b)** current certification in the specialty by the American Board of
185 Radiology, or specialty qualifications that are acceptable to
186 the Review Committee; and, (Core)

187

188 **II.A.3.b).(1)** The program director must actively participate in
189 Maintenance of Certification in radiation oncology through
190 the American Board of Radiology. (Core)

191

192 **II.A.3.c)** current medical licensure and appropriate medical staff
193 appointment. (Core)

194

195 **II.A.4.** The program director must administer and maintain an educational
196 environment conducive to educating the residents in each of the
197 ACGME competency areas. (Core)

198

199 **The program director must:**

200

- 201 **II.A.4.a)** oversee and ensure the quality of didactic and clinical
202 education in all sites that participate in the program; ^(Core)
203
- 204 **II.A.4.b)** approve a local director at each participating site who is
205 accountable for resident education; ^(Core)
206
- 207 **II.A.4.c)** approve the selection of program faculty as appropriate; ^(Core)
208
- 209 **II.A.4.d)** evaluate program faculty; ^(Core)
210
- 211 **II.A.4.e)** approve the continued participation of program faculty based
212 on evaluation; ^(Core)
213
- 214 **II.A.4.f)** monitor resident supervision at all participating sites; ^(Core)
215
- 216 **II.A.4.g)** prepare and submit all information required and requested by
217 the ACGME. ^(Core)
218
- 219 **II.A.4.g).(1)** This includes but is not limited to the program
220 application forms and annual program updates to the
221 ADS, and ensure that the information submitted is
222 accurate and complete. ^(Core)
223
- 224 **II.A.4.h)** ensure compliance with grievance and due process
225 procedures as set forth in the Institutional Requirements and
226 implemented by the sponsoring institution; ^(Detail)
227
- 228 **II.A.4.i)** provide verification of residency education for all residents,
229 including those who leave the program prior to completion;
230 ^(Detail)
231
- 232 **II.A.4.j)** implement policies and procedures consistent with the
233 institutional and program requirements for resident duty
234 hours and the working environment, including moonlighting,
235 ^(Core)
236
- 237 and, to that end, must:
- 238
- 239 **II.A.4.j).(1)** distribute these policies and procedures to the
240 residents and faculty; ^(Detail)
241
- 242 **II.A.4.j).(2)** monitor resident duty hours, according to sponsoring
243 institutional policies, with a frequency sufficient to
244 ensure compliance with ACGME requirements; ^(Core)
245
- 246 **II.A.4.j).(3)** adjust schedules as necessary to mitigate excessive
247 service demands and/or fatigue; and, ^(Detail)
248
- 249 **II.A.4.j).(4)** if applicable, monitor the demands of at-home call and
250 adjust schedules as necessary to mitigate excessive
251 service demands and/or fatigue. ^(Detail)

monitor the need for and ensure the provision of back up support systems when patient care responsibilities are unusually difficult or prolonged; (Detail)

comply with the sponsoring institution's written policies and procedures, including those specified in the Institutional Requirements, for selection, evaluation and promotion of residents, disciplinary action, and supervision of residents; (Detail)

be familiar with and comply with ACGME and Review Committee policies and procedures as outlined in the ACGME Manual of Policies and Procedures; (Detail)

obtain review and approval of the sponsoring institution's GMEC/DIO before submitting information or requests to the ACGME, including: (Core)

II.A.4.n).(1) all applications for ACGME accreditation of new programs; (Detail)

II.A.4.n).(2) changes in resident complement; (Detail)

II.A.4.n).(3) major changes in program structure or length of training; (Detail)

II.A.4.n).(4) progress reports requested by the Review Committee; (Detail)

II.A.4.n).(5) requests for increases or any change to resident duty hours; (Detail)

II.A.4.n).(6) voluntary withdrawals of ACGME-accredited programs; (Detail)

II.A.4.n).(7) requests for appeal of an adverse action; and, (Detail)

II.A.4.n).(8) appeal presentations to a Board of Appeal or the ACGME. (Detail)

II.A.4.o) obtain DIO review and co-signature on all program application forms, as well as any correspondence or document submitted to the ACGME that addresses: (Detail)

II.A.4.o).(1) program citations, and/or, (Detail)

II.A.4.o).(2) request for changes in the program that would have significant impact, including financial, on the program or institution. (Detail)

- 303 II.A.4.p) ensure that each resident keeps a detailed, well-organized, and
304 accurate electronic log of these procedures ~~noted~~specified in
305 Program Requirement IV.A.6.; and, ^(Core)
- 306
- 307 II.A.4.p).(1) The log should include patients simulated, procedures
308 performed, and modalities used. ^(Detail)
- 309
- 310 II.A.4.q) review the logs with alleach residents at least semiannually to
311 ensure accuracy and to verify that the case distribution meets the
312 standards specified; and, ^(Detail)
- 313
- 314 II.A.4.q).(1) The program director must provide documentation of these
315 discussions for the resident's record maintained by the
316 program; and, ^(DetailCore)
- 317
- 318 II.A.4.r) submit ~~the cumulative experience of~~ graduating residents to the
319 Review Committee annually in accordance with the format and the
320 due date specified by the Review Committee. ^(Core)
- 321
- 322 **II.B. Faculty**
- 323
- 324 **II.B.1.** At each participating site, there must be a sufficient number of
325 faculty with documented qualifications to instruct and supervise all
326 residents at that location. ^(Core)
- 327
- 328 The faculty must:
- 329
- 330 **II.B.1.a)** devote sufficient time to the educational program to fulfill
331 their supervisory and teaching responsibilities; and to
332 demonstrate a strong interest in the education of residents;
333 and, ^(Core)
- 334
- 335 **II.B.1.b)** administer and maintain an educational environment
336 conducive to educating residents in each of the ACGME
337 competency areas. ^(Core)
- 338
- 339 **II.B.2.** The physician faculty must have current certification in the specialty
340 by the American Board of Radiology, or possess qualifications
341 judged acceptable to the Review Committee. ^(Core)
- 342
- 343 **II.B.3.** The physician faculty must possess current medical licensure and
344 appropriate medical staff appointment. ^(Core)
- 345
- 346 **II.B.4.** The non-physician faculty must have appropriate qualifications in
347 their field and hold appropriate institutional appointments. ^(Core)
- 348
- 349 **II.B.5.** The faculty must establish and maintain an environment of inquiry
350 and scholarship with an active research component. ^(Core)
- 351
- 352 **II.B.5.a)** The faculty must regularly participate in organized clinical
353 discussions, rounds, journal clubs, and conferences. ^(Detail)

- 404 II.B.10. The faculty-to-resident ratio must be at least 0.67 FTE faculty members
405 for every resident in the program. (Detail)
- 406
- 407 **II.C. Other Program Personnel**
- 408
- 409 **The institution and the program must jointly ensure the availability of all**
410 **necessary professional, technical, and clerical personnel for the effective**
411 **administration of the program.** (Core)
- 412
- 413 **II.D. Resources**
- 414
- 415 **The institution and the program must jointly ensure the availability of**
416 **adequate resources for resident education, as defined in the specialty**
417 **program requirements.** (Core)
- 418
- 419 II.D.1. There must be a minimum of 600 patients receiving external beam
420 radiation therapy per year cumulatively at the primary clinical site and any
421 integrated participating sites. (Core)
- 422
- 423 II.D.2. Facilities
- 424
- 425 II.D.2.a) At the primary clinical site there must be two or more megavoltage
426 machines, a machine with a broad range of electron beam
427 capabilities, computed tomography (CT)-simulation capability, and
428 three-dimensional conformal computerized treatment planning,
429 including intensity modulated radiation therapy (IMRT). (Core)
- 430
- 431 II.D.2.b) There must be Ad~~equate conference room and audiovisual
432 facilities must be provided.~~ (Detail|Core)
- 433
- 434 II.D.3. Other Services
- 435
- 436 II.D.3.a) Adequate medical services must be available in the specialties of
437 medical oncology, surgical oncology, and pediatric oncology.
438 (Detail|Core)
- 439
- 440 II.D.3.b) There must be access to current imaging techniques, nuclear
441 medicine, pathology, a clinical laboratory, and a tumor registry.
442 (Core)
- 443
- 444 **II.E. Medical Information Access**
- 445
- 446 **Residents must have ready access to specialty-specific and other**
447 **appropriate reference material in print or electronic format. Electronic**
448 **medical literature databases with search capabilities should be available.**
449 (Detail)
- 450
- 451 **III. Resident Appointments**
- 452
- 453 **III.A. Eligibility Criteria**
- 454

455 **The program director must comply with the criteria for resident eligibility**
456 **as specified in the Institutional Requirements.** (Core)

457
458 **III.A.1. Eligibility Requirements – Residency Programs**

459
460 **III.A.1.a) All prerequisite post-graduate clinical education required for**
461 **initial entry or transfer into ACGME-accredited residency**
462 **programs must be completed in ACGME-accredited residency**
463 **programs, or in Royal College of Physicians and Surgeons of**
464 **Canada (RCPSC)-accredited or College of Family Physicians**
465 **of Canada (CFPC)-accredited residency programs located in**
466 **Canada. Residency programs must receive verification of**
467 **each applicant's level of competency in the required clinical**
468 **field using ACGME or CanMEDS Milestones assessments**
469 **from the prior training program.** (Core)

470
471 **III.A.1.a).(1) Prior to entering the program, residents must have**
472 **completed 12 months of post-graduate clinical education in**
473 **a residency program accredited by the ACGME or one**
474 **located in Canada and accredited by the RCPSC which**
475 **must include:**

476
477 **III.A.1.a).(1).(a) a minimum of nine months of direct patient care in**
478 **family medicine, internal medicine, obstetrics and**
479 **gynecology, pediatrics, or surgery or surgical**
480 **specialties, or in a transitional year program; and,**
481 **(Core)**

482
483 **III.A.1.a).(1).(b) a maximum of three months in radiation oncology.**
484 **(Core)**

485
486 **III.A.1.b) A physician who has completed a residency program that**
487 **was not accredited by ACGME, RCPSC, or CFPC may enter**
488 **an ACGME-accredited residency program in the same**
489 **specialty at the PGY-1 level and, at the discretion of the**
490 **program director at the ACGME-accredited program may be**
491 **advanced to the PGY-2 level based on ACGME Milestones**
492 **assessments at the ACGME-accredited program. This**
493 **provision applies only to entry into residency in those**
494 **specialties for which an initial clinical year is not required for**
495 **entry.** (Core)

496
497 **III.A.1.c) A Review Committee may grant the exception to the eligibility**
498 **requirements specified in Section III.A.2.b) for residency**
499 **programs that require completion of a prerequisite residency**
500 **program prior to admission.** (Core)

501
502 **III.A.1.d) Review Committees will grant no other exceptions to these**
503 **eligibility requirements for residency education.** (Core)

504
505 **III.A.2. Eligibility Requirements – Fellowship Programs**

506
507 **All required clinical education for entry into ACGME-accredited**
508 **fellowship programs must be completed in an ACGME-accredited**
509 **residency program, or in an RCPSC-accredited or CFPC- accredited**
510 **residency program located in Canada.** ^(Core)

511 **III.A.2.a)** **Fellowship programs must receive verification of each**
512 **entering fellow's level of competency in the required field**
513 **using ACGME or CanMEDS Milestones assessments from the**
514 **core residency program.** ^(Core)

515 **III.A.2.b)** **Fellow Eligibility Exception**

516 **A Review Committee may grant the following exception to the**
517 **fellowship eligibility requirements:**

518 **An ACGME-accredited fellowship program may accept an**
519 **exceptionally qualified applicant**, who does not satisfy the**
520 **eligibility requirements listed in Sections III.A.2. and III.A.2.a),**
521 **but who does meet all of the following additional**
522 **qualifications and conditions:** ^(Core)

523 **III.A.2.b).(1)** **Assessment by the program director and fellowship**
524 **selection committee of the applicant's suitability to**
525 **enter the program, based on prior training and review**
526 **of the summative evaluations of training in the core**
527 **specialty; and** ^(Core)

528 **III.A.2.b).(2)** **Review and approval of the applicant's exceptional**
529 **qualifications by the GMEC or a subcommittee of the**
530 **GMEC; and** ^(Core)

531 **III.A.2.b).(3)** **Satisfactory completion of the United States Medical**
532 **Licensing Examination (USMLE) Steps 1, 2, and, if the**
533 **applicant is eligible, 3, and;** ^(Core)

534 **III.A.2.b).(4)** **For an international graduate, verification of**
535 **Educational Commission for Foreign Medical**
536 **Graduates (ECFMG) certification; and,** ^(Core)

537 **III.A.2.b).(5)** **Applicants accepted by this exception must complete**
538 **fellowship Milestones evaluation (for the purposes of**
539 **establishment of baseline performance by the Clinical**
540 **Competency Committee), conducted by the receiving**
541 **fellowship program within six weeks of matriculation.**
542 **This evaluation may be waived for an applicant who**
543 **has completed an ACGME International-accredited**
544 **residency based on the applicant's Milestones**
545 **evaluation conducted at the conclusion of the**
546 **residency program.** ^(Core)

- 557 **III.A.2.b).(5).(a)**
- 558 **If the trainee does not meet the expected level**
- 559 **of Milestones competency following entry into**
- 560 **the fellowship program, the trainee must**
- 561 **undergo a period of remediation, overseen by**
- 562 **the Clinical Competency Committee and**
- 563 **monitored by the GMEC or a subcommittee of**
- 564 **the GMEC. This period of remediation must not**
- 565 **count toward time in fellowship training.** (Core)
- 566 **** An exceptionally qualified applicant has (1) completed a**
- 567 **non-ACGME-accredited residency program in the core**
- 568 **specialty, and (2) demonstrated clinical excellence, in**
- 569 **comparison to peers, throughout training. Additional**
- 570 **evidence of exceptional qualifications is required, which may**
- 571 **include one of the following: (a) participation in additional**
- 572 **clinical or research training in the specialty or subspecialty;**
- 573 **(b) demonstrated scholarship in the specialty or**
- 574 **subspecialty; (c) demonstrated leadership during or after**
- 575 **residency training; (d) completion of an ACGME-International-**
- 576 **accredited residency program.**
- 577
- 578 **III.B. Number of Residents**
- 579
- 580 **The program's educational resources must be adequate to support the**
- 581 **number of residents appointed to the program.** (Core)
- 582
- 583 **III.B.1. The program director may not appoint more residents than**
- 584 **approved by the Review Committee, unless otherwise stated in the**
- 585 **specialty-specific requirements.** (Core)
- 586
- 587 **III.B.1.a) Prior approval must be obtained from the Review Committee to**
- 588 **increase the number of resident positions.** (Core)
- 589
- 590 **III.B.2. Each program must be structured to have a minimum of four**
- 591 **residents****The program must offer at least four resident positions.** (Core)
- 592
- 593 **III.C. Resident Transfers**
- 594
- 595 **III.C.1. Before accepting a resident who is transferring from another**
- 596 **program, the program director must obtain written or electronic**
- 597 **verification of previous educational experiences and a summative**
- 598 **competency-based performance evaluation of the transferring**
- 599 **resident.** (Detail)
- 600
- 601 **III.C.2. A program director must provide timely verification of residency**
- 602 **education and summative performance evaluations for residents**
- 603 **who may leave the program prior to completion.** (Detail)
- 604
- 605 **III.D. Appointment of Fellows and Other Learners**
- 606

607 **The presence of other learners (including, but not limited to, residents from**
608 **other specialties, subspecialty fellows, PhD students, and nurse**
609 **practitioners) in the program must not interfere with the appointed**
610 **residents' education.** ^(Core)

611
612 **III.D.1. The program director must report the presence of other learners to**
613 **the DIO and GMEC in accordance with sponsoring institution**
614 **guidelines.** ^(Detail)

615
616 **IV. Educational Program**

617
618 **IV.A. The curriculum must contain the following educational components:**

619
620 **IV.A.1. Overall educational goals for the program, which the program must**
621 **make available to residents and faculty;** ^(Core)

622
623 **IV.A.2. Competency-based goals and objectives for each assignment at**
624 **each educational level, which the program must distribute to**
625 **residents and faculty at least annually, in either written or electronic**
626 **form;** ^(Core)

627
628 **IV.A.3. Regularly scheduled didactic sessions;** ^(Core)

629
630 **IV.A.3.a) Didactic sessions should be attended by residents, radiation**
631 **oncologists, and other staff members.** ^(Detail)

632
633 **IV.A.3.b) The program must document that residents acquire knowledge**
634 **and skills through provide instruction in the following areas:**

635
636 **IV.A.3.b).(1) three-dimensional conformal radiation therapy;** ^(Core)

637
638 **IV.A.3.b).(2) intensity-modulated radiation therapy;** ^(Core)

639
640 **IV.A.3.b).(3) image-guided radiation therapy;** ^(Core)

641
642 **IV.A.3.b).(4) stereotactic radiosurgery;** ^(Core)

643
644 **IV.A.3.b).(5) stereotactic body radiotherapy;** ^(Core)

645
646 **IV.A.3.b).(6) concurrent chemo-radiotherapy;** ^(Core)

647
648 **IV.A.3.b).(7) intra-operative radiation therapy;** ^(Core)

649
650 **IV.A.3.b).(8) radioimmunotherapy;** ^(Core)

651
652 **IV.A.3.b).(9) unsealed sources;** ^(Core)

653
654 **IV.A.3.b).(10) total body irradiation therapy as used in stem-cell**
655 **transplantation;** ^(Core)

656
657 **IV.A.3.b).(11) total skin radiation therapy;** ^(Core)

- 658
659 IV.A.3.b).(12) high- and low-dose rate brachytherapy; and, ^(Core)
660
661 IV.A.3.b).(13) particle therapy. ^(Core)
- 662
663 IV.A.3.c) The program must provide instruction in medical physics that
664 includes practical demonstrations of radiation safety procedures,
665 calibration of radiation therapy machines, the use of state-of-the-
666 art treatment planning systems, the application of treatment aids,
667 and the safe handling of sealed and unsealed radionuclides. ^(Core)
668
- 669 IV.A.3.d) The program must provide instruction in radiation and cancer
670 biology that includes the molecular effects of ionizing radiation and
671 radiation effects on normal and neoplastic tissues, as well as the
672 fundamental biology of the causes, prevention, and treatment of
673 cancer. ^(Core)
- 674
675 IV.A.3.e) The program must ensure that there are intradepartmental clinical
676 oncology conferences that ~~cover~~address the following topics: new
677 patient management, patient safety, and continuous quality
678 improvement. ^(Core)
- 679
680 **IV.A.4.** **Delineation of resident responsibilities for patient care, progressive**
681 **responsibility for patient management, and supervision of residents**
682 **over the continuum of the program; and,** ^(Core)
- 683
684 **IV.A.5. ACGME Competencies**
- 685
686 **The program must integrate the following ACGME competencies**
687 **into the curriculum:** ^(Core)
- 688
689 **IV.A.5.a) Patient Care and Procedural Skills**
- 690
691 **IV.A.5.a).(1)** **Residents must be able to provide patient care that is**
692 **compassionate, appropriate, and effective for the**
693 **treatment of health problems and the promotion of**
694 **health.** ^(Outcome)
- 695
696 **IV.A.5.a).(2)** **Residents must be able to competently perform all**
697 **medical, diagnostic, and surgical procedures**
698 **considered essential for the area of practice.**
699 **Residents:** ^(Outcome)
- 700
701 must demonstrate competence in:
- 702
703 **IV.A.5.a).(2).(a)** ~~must demonstrate competence in~~ follow-up care of
704 irradiated patients, including pediatric patients; ~~and,~~
705 ^(Outcome)
- 706

- 707 IV.A.5.a).(2).(b) must demonstrate competence in performing
708 interstitial and intracavitary brachytherapy
709 procedures; ^(Outcome)
- 710
- 711 IV.A.5.a).(2).(c) must demonstrate competence in the use of
712 unsealed radioactive sources; ^(Outcome)
- 713
- 714 IV.A.5.a).(2).(d) must demonstrate competence in treating adult
715 patients with conventionally-fractionated external
716 beam radiation therapy; ^(Outcome)
- 717
- 718 IV.A.5.a).(2).(e) must demonstrate competence in treating adult
719 patients with stereotactic radiosurgery and
720 stereotactic body radiation therapy; and, ^(Outcome)
- 721
- 722 IV.A.5.a).(2).(f) must demonstrate competence in treating pediatric
723 patients, including patients with solid tumors; ^(Outcome)
- 724
- 725

726 **IV.A.5.b) Medical Knowledge**

727

728 Residents must demonstrate knowledge of established and
729 evolving biomedical, clinical, epidemiological and social-
730 behavioral sciences, as well as the application of this
731 knowledge to patient care. Residents: ^(Outcome)

732

733 must demonstrate competence in their knowledge of:

- 734
- 735 IV.A.5.b).(1) clinical radiation oncology, including late effects on normal
736 tissue; ^(Outcome)
- 737
- 738 IV.A.5.b).(2) clinical radiation physics; ^(Outcome)
- 739
- 740 IV.A.5.b).(3) medical statistics; ^(Outcome)
- 741
- 742 IV.A.5.b).(4) radiation and cancer biology; and, ^(Outcome)
- 743
- 744 IV.A.5.b).(5) radiation safety procedures. ^(Outcome)

745

746 **IV.A.5.c) Practice-based Learning and Improvement**

747

748 Residents must demonstrate the ability to investigate and
749 evaluate their care of patients, to appraise and assimilate
750 scientific evidence, and to continuously improve patient care
751 based on constant self-evaluation and life-long learning.
752 ^(Outcome)

753

754 **Residents are expected to develop skills and habits to be able**
755 **to meet the following goals:**

756

- 757 **IV.A.5.c).(1)** identify strengths, deficiencies, and limits in one's
758 knowledge and expertise; (Outcome)
759
760 **IV.A.5.c).(2)** set learning and improvement goals; (Outcome)
761
762 **IV.A.5.c).(3)** identify and perform appropriate learning activities;
763 (Outcome)
764
765 **IV.A.5.c).(4)** systematically analyze practice using quality
766 improvement methods, and implement changes with
767 the goal of practice improvement; (Outcome)
768
769 **IV.A.5.c).(5)** incorporate formative evaluation feedback into daily
770 practice; (Outcome)
771
772 **IV.A.5.c).(6)** locate, appraise, and assimilate evidence from
773 scientific studies related to their patients' health
774 problems; (Outcome)
775
776 **IV.A.5.c).(7)** use information technology to optimize learning; and,
777 (Outcome)
778
779 **IV.A.5.c).(8)** participate in the education of patients, families,
780 students, residents and other health professionals.
781 (Outcome)
782
783 **IV.A.5.d)** **Interpersonal and Communication Skills**
784
785 Residents must demonstrate interpersonal and
786 communication skills that result in the effective exchange of
787 information and collaboration with patients, their families,
788 and health professionals. (Outcome)
789
790 Residents are expected to:
791
792 **IV.A.5.d).(1)** communicate effectively with patients, families, and
793 the public, as appropriate, across a broad range of
794 socioeconomic and cultural backgrounds; (Outcome)
795
796 **IV.A.5.d).(2)** communicate effectively with physicians, other health
797 professionals, and health related agencies; (Outcome)
798
799 **IV.A.5.d).(3)** work effectively as a member or leader of a health care
800 team or other professional group; (Outcome)
801
802 **IV.A.5.d).(4)** act in a consultative role to other physicians and
803 health professionals; and, (Outcome)
804
805 **IV.A.5.d).(5)** maintain comprehensive, timely, and legible medical
806 records, if applicable. (Outcome)
807

	IV.A.5.e)	Professionalism
808		Residents must demonstrate a commitment to carrying out professional responsibilities and an adherence to ethical principles. <small>(Outcome)</small>
809		Residents are expected to demonstrate:
810	IV.A.5.e).(1)	compassion, integrity, and respect for others; <small>(Outcome)</small>
811	IV.A.5.e).(2)	responsiveness to patient needs that supersedes self-interest; <small>(Outcome)</small>
812	IV.A.5.e).(3)	respect for patient privacy and autonomy; <small>(Outcome)</small>
813	IV.A.5.e).(4)	accountability to patients, society and the profession; and, <small>(Outcome)</small>
814	IV.A.5.e).(5)	sensitivity and responsiveness to a diverse patient population, including but not limited to diversity in gender, age, culture, race, religion, disabilities, and sexual orientation. <small>(Outcome)</small>
815	IV.A.5.f)	Systems-based Practice
816		Residents must demonstrate an awareness of and responsiveness to the larger context and system of health care, as well as the ability to call effectively on other resources in the system to provide optimal health care. <small>(Outcome)</small>
817		Residents are expected to:
818	IV.A.5.f).(1)	work effectively in various health care delivery settings and systems relevant to their clinical specialty; <small>(Outcome)</small>
819	IV.A.5.f).(2)	coordinate patient care within the health care system relevant to their clinical specialty; <small>(Outcome)</small>
820	IV.A.5.f).(3)	incorporate considerations of cost awareness and risk-benefit analysis in patient and/or population-based care as appropriate; <small>(Outcome)</small>
821	IV.A.5.f).(4)	advocate for quality patient care and optimal patient care systems; <small>(Outcome)</small>
822	IV.A.5.f).(5)	work in interprofessional teams to enhance patient safety and improve patient care quality; and, <small>(Outcome)</small>
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- 858 **IV.A.5.f).(6)** **participate in identifying system errors and**
859 **implementing potential systems solutions.** (Outcome)
- 860
- 861 IV.A.6. Curriculum Organization and Resident Experiences
- 862
- 863 IV.A.6.a) ~~The first year of post-graduate clinical education must be spent in internal medicine, family medicine, obstetrics and gynecology, surgery or surgical specialties, pediatrics, or a transitional year program, and must include at least nine months of direct patient care in medical and/or surgical specialties other than radiation oncology.~~ (Core)
- 864
- 865
- 866
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- 868
- 869
- 870 IV.A.6.b) ~~The year of clinical education must be followed by forty-eight curriculum must include 48 months in an ACGME accredited of education in radiation oncology program.~~ (Core)
- 871
- 872
- 873
- 874 IV.A.6.b).(1) ~~No fewer than This must include a minimum of 36 months must be spent in clinical radiation oncology.~~ (Core)
- 875
- 876
- 877 IV.A.6.b).(2) ~~The remaining 12 months may be spent performing such activities as taking elective rotations, performing research, pursuing an advanced degree, or taking other clinical rotations.~~ (Core)
- 878
- 879
- 880
- 881
- 882 IV.A.6.b).(2).(a) ~~This time must not be used to pursue a fellowship.~~ (Core)
- 883
- 884
- 885 IV.A.6.b).(2).(b) ~~Previous time spent in another ACGME-accredited program must not be applied to reduce the required length of the residency in radiation oncology.~~ (Core)
- 886
- 887
- 888
- 889 IV.A.6.b).(3) ~~The American Board of Radiology's Holman Pathway residents must complete no fewer than 27 months of clinical radiation oncology.~~ (DetailCore)
- 890
- 891
- 892
- 893 IV.A.6.c) Residents must have experience with lymphomas and leukemias; breast, central nervous system , gastrointestinal, genitourinary, gynecologic, head and neck, lung, pediatric, skin, and soft tissue and bone tumors; and treatment of benign diseases for which radiation is utilized. (Core)
- 894
- 895
- 896
- 897
- 898
- 899 IV.A.6.d) Each resident must treat at least 450 patients with external beam radiation therapy. (Core)
- 900
- 901
- 902 IV.A.6.d).(1) Holman Pathway residents must treat 350 patients. (DetailCore)
- 903
- 904
- 905 IV.A.6.d).(2) ~~A resident should treat no more than 250 patients with external beam radiation therapy in any one year.~~ (Detail) A ~~resident should treat no more than 250 patients with external beam radiation therapy in any one year.~~ (Detail)
- 906
- 907
- 908

- 909
910 IV.A.6.e) Each resident must perform at least five interstitial and 15
911 intracavitary brachytherapy procedures. ^(Core)
912
913 IV.A.6.f) Each resident must treat at least 12 pediatric patients, including at
914 least nine patients with solid tumors. ^(Core)
915
916 IV.A.6.g) Each resident must demonstrate the requisite skills in successfully
917 treating at least 20 patients with intracranial stereotactic
918 radiosurgery and at least 10-20 patients with stereotactic body
919 radiation therapy to the liver, lung, spine, or other extracranial
920 sites. ^(Core)
921
922 IV.A.6.h) Each resident must demonstrate the requisite knowledge and
923 skills in the administration of at least six procedures using
924 radioimmunotherapy, other targeted therapeutic
925 radiopharmaceuticals, or unsealed sources. ^(Core)
926
927 Of the six procedures:
928
929 IV.A.6.h).(1) Oral 4I-131 $\geq 33 \text{ mCi}$: A minimum of three procedures
930 must include the oral administration of I-131 with
931 administered activity equal to or in excess of 1.22
932 Gigabecquerels (33 mCi). Patient cConditions may be
933 either benign or malignant but the counted administration
934 must be for therapeutic intent. ^(Core)
935
936 IV.A.6.h).(2) Parenteral unsealed source: A minimum of three
937 procedures must include a parenteral administration with
938 therapeutic intent for a diagnosis of malignancy. ^(Core)
939
940 IV.A.6.i) The program must educate resident physicians include education
941 in adult medical oncology, pediatric medical oncology, oncologic
942 pathology, and oncologic diagnostic imaging, and palliative care in
943 a way that is applicable to the practice of radiation oncology. ^(Core)
944
945 IV.A.6.i).(1) There are multiple waysIn order to meet this requirement,
946 programs should:
947
948 IV.A.6.i).(1).(a) document resident attendance at regularly-
949 scheduled multidisciplinary patient disposition
950 conferences (at least four hours per month during
951 the clinical rotations); or, ^(Detail)
952
953 IV.A.6.i).(1).(b) Provide a two-month rotation in medical oncology,
954 to include adult and pediatric patients, as well as a
955 one-month rotation in both oncologic pathology and
956 diagnostic imaging, or, ^(Detail)
957
958 IV.A.6.i).(1).(c) Document attendance at regularly-scheduled
959 multidisciplinary patient disposition conferences (at

~~least four hours per month during the clinical rotations).~~ (Detail)

IV.A.6.i).(2) To satisfy the requirement for education in one of these areas, it must be documented that a board certified physician in the applicable field participated in the conference. Each conference must include the documented participation of a physician board-certified in the applicable specialty or subspecialty. (Detail Core)

IV.B. Residents' Scholarly Activities

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)

IV.B.2. Residents should participate in scholarly activity. (Core)

IV.B.2.a) Residents must complete an investigative project under faculty member supervision. (Core)

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)

IV.B.2.a).(2) The results of such projects should be suitable for publication in peer-reviewed scholarly journals or presentation at scientific meetings. (Detail)

IV.B.3. The sponsoring institution and program should allocate adequate educational resources to facilitate resident involvement in scholarly activities. (Detail)

V. Evaluation

V.A. Resident Evaluation

The program director must appoint the Clinical Competency Committee (Core)

V.A.1.a) At a minimum the Clinical Competency Committee must be composed of three members of the program faculty (Core)

V.A.1.a).(1) The program director may appoint additional members of the Clinical Competency Committee.

V.A.1.a).(1).(a) These additional members must be physician faculty members from the same program or

other programs, or other health professionals who have extensive contact and experience

with the program's residents in patient care and other health care settings. (Core)

Chief residents who have completed core residency programs in their specialty and are eligible for specialty board certification may be members of the Clinical Competency Committee. (Core)

V.A.1.b) There must be a written description of the responsibilities of the Clinical Competency Committee. (Core)

1023 V.A.1.b)-(1) The Clinical Competency Committee should:

1028 V.A.1.b).(1).(b) prepare and ensure the reporting of Milestones
1029 evaluations of each resident semi-annually to
1030 ACGME; and, ^(Core)

1032 V.A.1.b).(1).(c) advise the program director regarding resident
1033 progress, including promotion, remediation,
1034 and dismissal. (Detail)

Formative Evaluation

1043 V.A.2.b) The program must:

1045 V.A.2.b).(1) provide objective assessments of competence in
1046 patient care and procedural skills, medical knowledge,
1047 practice-based learning and improvement,
1048 interpersonal and communication skills,
1049 professionalism, and systems-based practice based
1050 on the specialty-specific Milestones; (Core)

1055 V.A.2.b).(3) document progressive resident performance
1056 improvement appropriate to educational level; and,
1057 (Core)

1058
1059 V.A.2.b).(4) provide each resident with documented semiannual
1060 evaluation of performance with feedback (Core)

- 1062 **V.A.2.c)** **The evaluations of resident performance must be accessible**
1063 **for review by the resident, in accordance with institutional**
1064 **policy.** (Detail)
- 1065
1066 **V.A.3.** **Summative Evaluation**
- 1067
1068 **V.A.3.a)** **The specialty-specific Milestones must be used as one of the**
1069 **tools to ensure residents are able to practice core**
1070 **professional activities without supervision upon completion**
1071 **of the program.** (Core)
- 1072
1073 **V.A.3.b)** **The program director must provide a summative evaluation**
1074 **for each resident upon completion of the program.** (Core)
- 1075
1076 **This evaluation must:**
- 1077
1078 **V.A.3.b).(1)** **become part of the resident's permanent record**
1079 **maintained by the institution, and must be accessible**
1080 **for review by the resident in accordance with**
1081 **institutional policy;** (Detail)
- 1082
1083 **V.A.3.b).(2)** **document the resident's performance during the final**
1084 **period of education; and,** (Detail)
- 1085
1086 **V.A.3.b).(3)** **verify that the resident has demonstrated sufficient**
1087 **competence to enter practice without direct**
1088 **supervision.** (Detail)
- 1089
1090 **V.B.** **Faculty Evaluation**
- 1091
1092 **V.B.1.** **At least annually, the program must evaluate faculty performance as**
1093 **it relates to the educational program.** (Core)
- 1094
1095 **V.B.2.** **These evaluations should include a review of the faculty's clinical**
1096 **teaching abilities, commitment to the educational program, clinical**
1097 **knowledge, professionalism, and scholarly activities.** (Detail)
- 1098
1099 **V.B.3.** **This evaluation must include at least annual written confidential**
1100 **evaluations by the residents.** (Detail)
- 1101
1102 **V.C.** **Program Evaluation and Improvement**
- 1103
1104 **V.C.1.** **The program director must appoint the Program Evaluation**
1105 **Committee (PEC).** (Core)
- 1106
1107 **V.C.1.a)** **The Program Evaluation Committee:**
- 1108
1109 **V.C.1.a).(1)** **must be composed of at least two program faculty**
1110 **members and should include at least one resident;**
1111 **(Core)**

	V.C.1.a).(2)	must have a written description of its responsibilities; and, ^(Core)
	V.C.1.a).(3)	should participate actively in:
	V.C.1.a).(3).(a)	planning, developing, implementing, and evaluating educational activities of the program; ^(Detail)
	V.C.1.a).(3).(b)	reviewing and making recommendations for revision of competency-based curriculum goals and objectives; ^(Detail)
	V.C.1.a).(3).(c)	addressing areas of non-compliance with ACGME standards; and, ^(Detail)
	V.C.1.a).(3).(d)	reviewing the program annually using evaluations of faculty, residents, and others, as specified below. ^(Detail)
	V.C.2.	The program, through the PEC, must document formal, systematic evaluation of the curriculum at least annually, and is responsible for rendering a written, annual program evaluation. ^(Core)
		The program must monitor and track each of the following areas:
	V.C.2.a)	resident performance; ^(Core)
	V.C.2.b)	faculty development; ^(Core)
	V.C.2.c)	graduate performance, including performance of program graduates on the certification examination; ^(Core)
	V.C.2.c).(1)	Sixty percent of the <u>a</u> program's graduates from the preceding five years taking the American Board of Radiology <u>qualifying (written) examination for the first time</u> must pass. ^(Outcome)
	V.C.2.c).(2)	Sixty percent of a program's graduates from the preceding five years taking the American Board of Radiology certifying <u>(oral)</u> examination for the first time must pass. ^(Outcome)
	V.C.2.d)	program quality; and, ^(Core)
	V.C.2.d).(1)	Residents and faculty must have the opportunity to evaluate the program confidentially and in writing at least annually, and ^(Detail)
	V.C.2.d).(2)	The program must use the results of residents' and faculty members' assessments of the program

together with other program evaluation results to improve the program. (Detail)

V.C.2.e) progress on the previous year's action plan(s). (Core)

V.C.3. The PEC must prepare a written plan of action to document initiatives to improve performance in one or more of the areas listed in section V.C.2., as well as delineate how they will be measured and monitored. (Core)

V.C.3.a) The action plan should be reviewed and approved by the teaching faculty and documented in meeting minutes. (Detail)

VI. The Learning and Working Environment

Residency education must occur in the context of a learning and working environment that emphasizes the following principles:

- *Excellence in the safety and quality of care rendered to patients by residents today*
 - *Excellence in the safety and quality of care rendered to patients by today's residents in their future practice*
 - *Excellence in professionalism through faculty modeling of:*
 - *the effacement of self-interest in a humanistic environment that supports the professional development of physicians*
 - *the joy of curiosity, problem-solving, intellectual rigor, and discovery*
 - *Commitment to the well-being of the students, residents, faculty members, and all members of the health care team*

VI.A. Patient Safety, Quality Improvement, Supervision, and Accountability

VI.A.1. Patient Safety and Quality Improvement

All physicians share responsibility for promoting patient safety and enhancing quality of patient care. Graduate medical education must prepare residents to provide the highest level of clinical care with continuous focus on the safety, individual needs, and humanity of their patients. It is the right of each patient to be cared for by residents who are appropriately supervised; possess the requisite knowledge, skills, and abilities; understand the limits of their knowledge and experience; and seek assistance as required to provide optimal patient care.

Residents must demonstrate the ability to analyze the care they provide, understand their roles within health care teams, and play an

1214 ***active role in system improvement processes. Graduating residents***
1215 ***will apply these skills to critique their future unsupervised practice***
1216 ***and effect quality improvement measures.***

1217
1218 ***It is necessary for residents and faculty members to consistently***
1219 ***work in a well-coordinated manner with other health care***
1220 ***professionals to achieve organizational patient safety goals.***

1221 **VI.A.1.a)**

Patient Safety

1222 **VI.A.1.a).(1)**

Culture of Safety

1223
1224 ***A culture of safety requires continuous identification***
1225 ***of vulnerabilities and a willingness to transparently***
1226 ***deal with them. An effective organization has formal***
1227 ***mechanisms to assess the knowledge, skills, and***
1228 ***attitudes of its personnel toward safety in order to***
1229 ***identify areas for improvement.***

1230 **VI.A.1.a).(1).(a)**

1231 The program, its faculty, residents, and fellows
1232 must actively participate in patient safety
1233 systems and contribute to a culture of safety.
(Core)

1234 **VI.A.1.a).(1).(b)**

1235 The program must have a structure that
1236 promotes safe, interprofessional, team-based
1237 care. (Core)

1238 **VI.A.1.a).(2)**

Education on Patient Safety

1239 Programs must provide formal educational activities
1240 that promote patient safety-related goals, tools, and
1241 techniques. (Core)

1242 **VI.A.1.a).(3)**

Patient Safety Events

1243
1244 ***Reporting, investigation, and follow-up of adverse***
1245 ***events, near misses, and unsafe conditions are pivotal***
1246 ***mechanisms for improving patient safety, and are***
1247 ***essential for the success of any patient safety***
1248 ***program. Feedback and experiential learning are***
1249 ***essential to developing true competence in the ability***
1250 ***to identify causes and institute sustainable systems-***
1251 ***based changes to ameliorate patient safety***
1252 ***vulnerabilities.***

1253 **VI.A.1.a).(3).(a)**

1254 Residents, fellows, faculty members, and other
1255 clinical staff members must:
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1263	VI.A.1.a).(3).(a).(i)	know their responsibilities in reporting patient safety events at the clinical site; (Core)
1264		
1265		
1266		
1267	VI.A.1.a).(3).(a).(ii)	know how to report patient safety events, including near misses, at the clinical site; and, (Core)
1268		
1269		
1270		
1271	VI.A.1.a).(3).(a).(iii)	be provided with summary information of their institution's patient safety reports. (Core)
1272		
1273		
1274		
1275	VI.A.1.a).(3).(b)	Residents must participate as team members in real and/or simulated interprofessional clinical patient safety activities, such as root cause analyses or other activities that include analysis, as well as formulation and implementation of actions. (Core)
1276		
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1281		
1282	VI.A.1.a).(4)	Resident Education and Experience in Disclosure of Adverse Events
1283		
1284		
1285		<i>Patient-centered care requires patients, and when appropriate families, to be apprised of clinical situations that affect them, including adverse events. This is an important skill for faculty physicians to model, and for residents to develop and apply.</i>
1286		
1287		
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1290		
1291	VI.A.1.a).(4).(a)	All residents must receive training in how to disclose adverse events to patients and families. (Core)
1292		
1293		
1294		
1295	VI.A.1.a).(4).(b)	Residents should have the opportunity to participate in the disclosure of patient safety events, real or simulated. (Detail)
1296		
1297		
1298		
1299	VI.A.1.b)	Quality Improvement
1300		
1301	VI.A.1.b).(1)	Education in Quality Improvement
1302		
1303		<i>A cohesive model of health care includes quality-related goals, tools, and techniques that are necessary in order for health care professionals to achieve quality improvement goals.</i>
1304		
1305		
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1307		
1308	VI.A.1.b).(1).(a)	Residents must receive training and experience in quality improvement processes, including an understanding of health care disparities. (Core)
1309		
1310		
1311		
1312	VI.A.1.b).(2)	Quality Metrics
1313		

		<p><i>Access to data is essential to prioritizing activities for care improvement and evaluating success of improvement efforts.</i></p>
1314		
1315		
1316		
1317		
1318	VI.A.1.b).(2).(a)	<p>Residents and faculty members must receive data on quality metrics and benchmarks related to their patient populations. ^(Core)</p>
1319		
1320		
1321		
1322	VI.A.1.b).(3)	<p>Engagement in Quality Improvement Activities</p> <p><i>Experiential learning is essential to developing the ability to identify and institute sustainable systems-based changes to improve patient care.</i></p>
1323		
1324		
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1328	VI.A.1.b).(3).(a)	<p>Residents must have the opportunity to participate in interprofessional quality improvement activities. ^(Core)</p>
1329		
1330		
1331		
1332	VI.A.1.b).(3).(a).(i)	<p>This should include activities aimed at reducing health care disparities. ^(Detail)</p>
1333		
1334		
1335	VI.A.2.	<p>Supervision and Accountability</p>
1336		
1337	VI.A.2.a)	<p><i>Although the attending physician is ultimately responsible for the care of the patient, every physician shares in the responsibility and accountability for their efforts in the provision of care. Effective programs, in partnership with their Sponsoring Institutions, define, widely communicate, and monitor a structured chain of responsibility and accountability as it relates to the supervision of all patient care.</i></p>
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1352	VI.A.2.a).(1)	<p>Each patient must have an identifiable and appropriately-credentialed and privileged attending physician (or licensed independent practitioner as specified by the applicable Review Committee) who is responsible and accountable for the patient's care. ^(Core)</p>
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1359	VI.A.2.a).(1).(a)	<p>This information must be available to residents, faculty members, other members of the health care team, and patients. ^(Core)</p>
1360		
1361		
1362		
1363	VI.A.2.a).(1).(b)	<p>Residents and faculty members must inform each patient of their respective roles in that</p>
1364		

1365		patient's care when providing direct patient
1366		^(Core)
1367		
1368	VI.A.2.b)	<i>Supervision may be exercised through a variety of methods. For many aspects of patient care, the supervising physician may be a more advanced resident or fellow. Other portions of care provided by the resident can be adequately supervised by the immediate availability of the supervising faculty member, fellow, or senior resident physician, either on site or by means of telephonic and/or electronic modalities. Some activities require the physical presence of the supervising faculty member. In some circumstances, supervision may include post-hoc review of resident-delivered care with feedback.</i>
1379		
1380	VI.A.2.b).(1)	The program must demonstrate that the appropriate level of supervision in place for all residents is based on each resident's level of training and ability, as well as patient complexity and acuity. Supervision may be exercised through a variety of methods, as appropriate to the situation. ^(Core)
1386		
1387	VI.A.2.c)	Levels of Supervision
1388		
1389		To promote oversight of resident supervision while providing for graded authority and responsibility, the program must use the following classification of supervision: ^(Core)
1390		
1391		
1392		
1393	VI.A.2.c).(1)	Direct Supervision – the supervising physician is physically present with the resident and patient. ^(Core)
1394		
1395		
1396	VI.A.2.c).(2)	Indirect Supervision:
1397		
1398	VI.A.2.c).(2).(a)	with Direct Supervision immediately available – the supervising physician is physically within the hospital or other site of patient care, and is immediately available to provide Direct Supervision. ^(Core)
1399		
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1404	VI.A.2.c).(2).(b)	with Direct Supervision available – the supervising physician is not physically present within the hospital or other site of patient care, but is immediately available by means of telephonic and/or electronic modalities, and is available to provide Direct Supervision. ^(Core)
1405		
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1411	VI.A.2.c).(3)	Oversight – the supervising physician is available to provide review of procedures/encounters with feedback provided after care is delivered. ^(Core)
1412		
1413		
1414		

- 1415 **VI.A.2.d)** The privilege of progressive authority and responsibility,
1416 conditional independence, and a supervisory role in patient
1417 care delegated to each resident must be assigned by the
1418 program director and faculty members. ^(Core)
1419
- 1420 **VI.A.2.d).(1)** The program director must evaluate each resident's
1421 abilities based on specific criteria, guided by the
1422 Milestones. ^(Core)
1423
- 1424 **VI.A.2.d).(2)** Faculty members functioning as supervising
1425 physicians must delegate portions of care to residents
1426 based on the needs of the patient and the skills of
1427 each resident. ^(Core)
1428
- 1429 **VI.A.2.d).(3)** Senior residents or fellows should serve in a
1430 supervisory role to junior residents in recognition of
1431 their progress toward independence, based on the
1432 needs of each patient and the skills of the individual
1433 resident or fellow. ^(Detail)
1434
- 1435 **VI.A.2.e)** Programs must set guidelines for circumstances and events
1436 in which residents must communicate with the supervising
1437 faculty member(s). ^(Core)
1438
- 1439 **VI.A.2.e).(1)** Each resident must know the limits of their scope of
1440 authority, and the circumstances under which the
1441 resident is permitted to act with conditional
1442 independence. ^(Outcome)
1443
- 1444 **VI.A.2.e).(1).(a)** Initially, PGY-1 residents must be supervised
1445 either directly, or indirectly with direct
1446 supervision immediately available. ^(Core)
1447
- 1448 **VI.A.2.f)** Faculty supervision assignments must be of sufficient
1449 duration to assess the knowledge and skills of each resident
1450 and to delegate to the resident the appropriate level of patient
1451 care authority and responsibility. ^(Core)
1452
- 1453 **VI.B.** **Professionalism**
- 1454
- 1455 **VI.B.1.** Programs, in partnership with their Sponsoring Institutions, must
1456 educate residents and faculty members concerning the professional
1457 responsibilities of physicians, including their obligation to be
1458 appropriately rested and fit to provide the care required by their
1459 patients. ^(Core)
1460
- 1461 **VI.B.2.** The learning objectives of the program must:
1462
- 1463 **VI.B.2.a)** be accomplished through an appropriate blend of supervised
1464 patient care responsibilities, clinical teaching, and didactic
1465 educational events; ^(Core)

- | | | |
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| 1466 | | |
| 1467 | VI.B.2.b) | be accomplished without excessive reliance on residents to fulfill non-physician obligations; and, ^(Core) |
| 1468 | | |
| 1469 | VI.B.2.c) | ensure manageable patient care responsibilities. ^(Core) |
| 1470 | | |
| 1471 | VI.B.3. | The program director, in partnership with the Sponsoring Institution, must provide a culture of professionalism that supports patient safety and personal responsibility. ^(Core) |
| 1472 | | |
| 1473 | VI.B.4. | Residents and faculty members must demonstrate an understanding of their personal role in the: |
| 1474 | | |
| 1475 | VI.B.4.a) | provision of patient- and family-centered care; ^(Outcome) |
| 1476 | | |
| 1477 | VI.B.4.b) | safety and welfare of patients entrusted to their care, including the ability to report unsafe conditions and adverse events; ^(Outcome) |
| 1478 | | |
| 1479 | VI.B.4.c) | assurance of their fitness for work, including: ^(Outcome) |
| 1480 | | |
| 1481 | VI.B.4.c).(1) | management of their time before, during, and after clinical assignments; and, ^(Outcome) |
| 1482 | | |
| 1483 | VI.B.4.c).(2) | recognition of impairment, including from illness, fatigue, and substance use, in themselves, their peers, and other members of the health care team. ^(Outcome) |
| 1484 | | |
| 1485 | VI.B.4.d) | commitment to lifelong learning; ^(Outcome) |
| 1486 | | |
| 1487 | VI.B.4.e) | monitoring of their patient care performance improvement indicators; and, ^(Outcome) |
| 1488 | | |
| 1489 | VI.B.4.f) | accurate reporting of clinical and educational work hours, patient outcomes, and clinical experience data. ^(Outcome) |
| 1490 | | |
| 1491 | VI.B.5. | All residents and faculty members must demonstrate responsiveness to patient needs that supersedes self-interest. This includes the recognition that under certain circumstances, the best interests of the patient may be served by transitioning that patient's care to another qualified and rested provider. ^(Outcome) |
| 1492 | | |
| 1493 | VI.B.6. | Programs must provide a professional, respectful, and civil environment that is free from mistreatment, abuse, or coercion of students, residents, faculty, and staff. Programs, in partnership with their Sponsoring Institutions, should have a process for education of residents and faculty regarding unprofessional behavior and a confidential process for reporting, investigating, and addressing such concerns. ^(Core) |
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| 1516 | VI.C. | Well-Being |

In the current health care environment, residents and faculty members are at increased risk for burnout and depression. Psychological, emotional, and physical well-being are critical in the development of the competent, caring, and resilient physician. Self-care is an important component of professionalism; it is also a skill that must be learned and nurtured in the context of other aspects of residency training. Programs, in partnership with their Sponsoring Institutions, have the same responsibility to address well-being as they do to evaluate other aspects of resident competence.

VI.C.1. This responsibility must include:

VI.C.1.a) efforts to enhance the meaning that each resident finds in the experience of being a physician, including protecting time with patients, minimizing non-physician obligations, providing administrative support, promoting progressive autonomy and flexibility, and enhancing professional relationships; ^(Core)

VI.C.1.b) attention to scheduling, work intensity, and work compression that impacts resident well-being; ^(Core)

VI.C.1.c) evaluating workplace safety data and addressing the safety of residents and faculty members; (Core)

VI.C.1.d) policies and programs that encourage optimal resident and faculty member well-being; and, ^(Core)

VI.C.1.d).(1) Residents must be given the opportunity to attend medical, mental health, and dental care appointments, including those scheduled during their working hours.
(Core)

VI.C.1.e) attention to resident and faculty member burnout, depression, and substance abuse. The program, in partnership with its Sponsoring Institution, must educate faculty members and residents in identification of the symptoms of burnout, depression, and substance abuse, including means to assist those who experience these conditions. Residents and faculty members must also be educated to recognize those symptoms in themselves and how to seek appropriate care. The program, in partnership with its Sponsoring Institution, must: ^(Core)

VI.C.1.e).(1) encourage residents and faculty members to alert the program director or other designated personnel or programs when they are concerned that another resident, fellow, or faculty member may be displaying signs of burnout, depression, substance abuse, suicidal ideation, or potential for violence; (Core)

- 1568 VI.C.1.e).(2) provide access to appropriate tools for self-screening;
1569 and, ^(Core)
- 1570
- 1571 VI.C.1.e).(3) provide access to confidential, affordable mental
1572 health assessment, counseling, and treatment,
1573 including access to urgent and emergent care 24
1574 hours a day, seven days a week. ^(Core)
- 1575
- 1576 VI.C.2. There are circumstances in which residents may be unable to attend
1577 work, including but not limited to fatigue, illness, and family
1578 emergencies. Each program must have policies and procedures in
1579 place that ensure coverage of patient care in the event that a
1580 resident may be unable to perform their patient care responsibilities.
1581 These policies must be implemented without fear of negative
1582 consequences for the resident who is unable to provide the clinical
1583 work. ^(Core)
- 1584
- 1585 VI.D. Fatigue Mitigation
- 1586
- 1587 VI.D.1. Programs must:
- 1588
- 1589 VI.D.1.a) educate all faculty members and residents to recognize the
1590 signs of fatigue and sleep deprivation; ^(Core)
- 1591
- 1592 VI.D.1.b) educate all faculty members and residents in alertness
1593 management and fatigue mitigation processes; and, ^(Core)
- 1594
- 1595 VI.D.1.c) encourage residents to use fatigue mitigation processes to
1596 manage the potential negative effects of fatigue on patient
1597 care and learning. ^(Detail)
- 1598
- 1599 VI.D.2. Each program must ensure continuity of patient care, consistent
1600 with the program's policies and procedures referenced in VI.C.2, in
1601 the event that a resident may be unable to perform their patient care
1602 responsibilities due to excessive fatigue. ^(Core)
- 1603
- 1604 VI.D.3. The program, in partnership with its Sponsoring Institution, must
1605 ensure adequate sleep facilities and safe transportation options for
1606 residents who may be too fatigued to safely return home. ^(Core)
- 1607
- 1608 VI.E. Clinical Responsibilities, Teamwork, and Transitions of Care
- 1609
- 1610 VI.E.1. Clinical Responsibilities
- 1611
- 1612 The clinical responsibilities for each resident must be based on PGY
1613 level, patient safety, resident ability, severity and complexity of
1614 patient illness/condition, and available support services. ^(Core)
- 1615
- 1616 VI.E.2. Teamwork
- 1617

- 1618 Residents must care for patients in an environment that maximizes
1619 communication. This must include the opportunity to work as a
1620 member of effective interprofessional teams that are appropriate to
1621 the delivery of care in the specialty and larger health system. ^(Core)
1622
- 1623 VI.E.2.a) Interprofessional teams within the department should include
1624 radiation oncologists, medical physicists, radiation therapists,
1625 dosimetrists, nurses, dieticians, and social workers. ^(Detail)
1626
- 1627 VI.E.2.b) Interprofessional teams outside of the department should include
1628 surgical oncologists, medical oncologists, radiologists,
1629 pathologists, and primary care physicians. ^(Detail)
1630
- 1631 **VI.E.3. Transitions of Care**
- 1632
- 1633 VI.E.3.a) Programs must design clinical assignments to optimize
1634 transitions in patient care, including their safety, frequency,
1635 and structure. ^(Core)
1636
- 1637 VI.E.3.b) Programs, in partnership with their Sponsoring Institutions,
1638 must ensure and monitor effective, structured hand-over
1639 processes to facilitate both continuity of care and patient
1640 safety. ^(Core)
1641
- 1642 VI.E.3.c) Programs must ensure that residents are competent in
1643 communicating with team members in the hand-over process.
1644 ^(Outcome)
1645
- 1646 VI.E.3.d) Programs and clinical sites must maintain and communicate
1647 schedules of attending physicians and residents currently
1648 responsible for care. ^(Core)
1649
- 1650 VI.E.3.e) Each program must ensure continuity of patient care,
1651 consistent with the program's policies and procedures
1652 referenced in VI.C.2, in the event that a resident may be
1653 unable to perform their patient care responsibilities due to
1654 excessive fatigue or illness, or family emergency. ^(Core)
1655
- 1656 **VI.F. Clinical Experience and Education**
- 1657
- 1658 *Programs, in partnership with their Sponsoring Institutions, must design
1659 an effective program structure that is configured to provide residents with
1660 educational and clinical experience opportunities, as well as reasonable
1661 opportunities for rest and personal activities.*
1662
- 1663 VI.F.1. **Maximum Hours of Clinical and Educational Work per Week**
- 1664
- 1665 Clinical and educational work hours must be limited to no more than
1666 80 hours per week, averaged over a four-week period, inclusive of all
1667 in-house clinical and educational activities, clinical work done from
1668 home, and all moonlighting. ^(Core)

1669	VI.F.2.	Mandatory Time Free of Clinical Work and Education
1670	VI.F.2.a)	The program must design an effective program structure that is configured to provide residents with educational opportunities, as well as reasonable opportunities for rest and personal well-being. ^(Core)
1671		
1672		
1673		
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1675		
1676	VI.F.2.b)	Residents should have eight hours off between scheduled clinical work and education periods. ^(Detail)
1677		
1678		
1679	VI.F.2.b).(1)	There may be circumstances when residents choose to stay to care for their patients or return to the hospital with fewer than eight hours free of clinical experience and education. This must occur within the context of the 80-hour and the one-day-off-in-seven requirements. ^(Detail)
1680		
1681		
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1683		
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1685		
1686	VI.F.2.c)	Residents must have at least 14 hours free of clinical work and education after 24 hours of in-house call. ^(Core)
1687		
1688		
1689	VI.F.2.d)	Residents must be scheduled for a minimum of one day in seven free of clinical work and required education (when averaged over four weeks). At-home call cannot be assigned on these free days. ^(Core)
1690		
1691		
1692		
1693		
1694	VI.F.3.	Maximum Clinical Work and Education Period Length
1695		
1696	VI.F.3.a)	Clinical and educational work periods for residents must not exceed 24 hours of continuous scheduled clinical assignments. ^(Core)
1697		
1698		
1699		
1700	VI.F.3.a).(1)	Up to four hours of additional time may be used for activities related to patient safety, such as providing effective transitions of care, and/or resident education. ^(Core)
1701		
1702		
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1704		
1705	VI.F.3.a).(1).(a)	Additional patient care responsibilities must not be assigned to a resident during this time. ^(Core)
1706		
1707		
1708	VI.F.4.	Clinical and Educational Work Hour Exceptions
1709		
1710	VI.F.4.a)	In rare circumstances, after handing off all other responsibilities, a resident, on their own initiative, may elect to remain or return to the clinical site in the following circumstances:
1711		
1712		
1713		
1714		
1715	VI.F.4.a).(1)	to continue to provide care to a single severely ill or unstable patient; ^(Detail)
1716		
1717		
1718		

- 1719 VI.F.4.a).(2) humanistic attention to the needs of a patient or
1720 family; or, (Detail)
- 1721
- 1722 VI.F.4.a).(3) to attend unique educational events. (Detail)
- 1723
- 1724 VI.F.4.b) These additional hours of care or education will be counted
1725 toward the 80-hour weekly limit. (Detail)
- 1726
- 1727 VI.F.4.c) A Review Committee may grant rotation-specific exceptions
1728 for up to 10 percent or a maximum of 88 clinical and
1729 educational work hours to individual programs based on a
1730 sound educational rationale.
- 1731
- 1732 The Review Committee for Radiation Oncology will not consider
1733 requests for exceptions to the 80-hour limit to the residents' work
1734 week. (Core)
- 1735
- 1736 VI.F.4.c).(1) In preparing a request for an exception, the program
1737 director must follow the clinical and educational work
1738 hour exception policy from the *ACGME Manual of*
1739 *Policies and Procedures*. (Core)
- 1740
- 1741 VI.F.4.c).(2) Prior to submitting the request to the Review
1742 Committee, the program director must obtain approval
1743 from the Sponsoring Institution's GMEC and DIO. (Core)
- 1744
- 1745 VI.F.5. Moonlighting
- 1746
- 1747 VI.F.5.a) Moonlighting must not interfere with the ability of the resident
1748 to achieve the goals and objectives of the educational
1749 program, and must not interfere with the resident's fitness for
1750 work nor compromise patient safety. (Core)
- 1751
- 1752 VI.F.5.b) Time spent by residents in internal and external moonlighting
1753 (as defined in the ACGME Glossary of Terms) must be
1754 counted toward the 80-hour maximum weekly limit. (Core)
- 1755
- 1756 VI.F.5.c) PGY-1 residents are not permitted to moonlight. (Core)
- 1757
- 1758 VI.F.6. In-House Night Float
- 1759
- 1760 Night float must occur within the context of the 80-hour and one-
1761 day-off-in-seven requirements. (Core)
- 1762
- 1763 VI.F.7. Maximum In-House On-Call Frequency
- 1764
- 1765 Residents must be scheduled for in-house call no more frequently
1766 than every third night (when averaged over a four-week period). (Core)
- 1767
- 1768 VI.F.8. At-Home Call
- 1769

1770	VI.F.8.a)	Time spent on patient care activities by residents on at-home call must count toward the 80-hour maximum weekly limit. The frequency of at-home call is not subject to the every-third-night limitation, but must satisfy the requirement for one day in seven free of clinical work and education, when averaged over four weeks. <small>(Core)</small>
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1776		
1777	VI.F.8.a).(1)	At-home call must not be so frequent or taxing as to preclude rest or reasonable personal time for each resident. <small>(Core)</small>
1778		
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1780		
1781	VI.F.8.b)	Residents are permitted to return to the hospital while on at-home call to provide direct care for new or established patients. These hours of inpatient patient care must be included in the 80-hour maximum weekly limit. <small>(Detail)</small>
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1788	*Core Requirements:	Statements that define structure, resource, or process elements essential to every graduate medical educational program.
1789	Detail Requirements:	Statements that describe a specific structure, resource, or process, for achieving compliance with a Core Requirement. Programs and sponsoring institutions in substantial compliance with the Outcome Requirements may utilize alternative or innovative approaches to meet Core Requirements.
1790	Outcome Requirements:	Statements that specify expected measurable or observable attributes (knowledge, abilities, skills, or attitudes) of residents or fellows at key stages of their graduate medical education.
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1794	Osteopathic Recognition	For programs seeking Osteopathic Recognition for the entire program, or for a track within the program, the Osteopathic Recognition Requirements are also applicable.
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