

1 **MICHIGAN DEPARTMENT OF COMMUNITY HEALTH AND HUMAN SERVICES**

2
3 **CERTIFICATE OF NEED (CON) REVIEW STANDARDS**
4 **FOR BONE MARROW TRANSPLANTATION (BMT) SERVICES**
5

6 (By authority conferred on the CON Commission by Section 22215 of Act No. 368 of the Public Acts of
7 1978, as amended, and sections 7 and 8 of Act No. 306 of the Public Acts of 1969, as amended, being
8 sections 333.22215, 24.207, and 24.208 of the Michigan Compiled Laws.)
9

10 **Section 1. Applicability**

11
12 Sec. 1. (1) These standards are requirements for the approval to initiate or acquire BMT services
13 under Part 222 of the Code. BMT services are a covered clinical service pursuant to Part 222 of the
14 Code. The Department shall use these standards in applying Section 22225(1) of the Code being Section
15 333.22225(1) of the Michigan Compiled Laws and Section 22225(C) of the Code, being Section
16 333.22225(2)(C) of the Michigan Compiled Laws.
17

18 (2) A BMT service listed on the Department inventory that is located at a hospital site and initially
19 does not perform both allogeneic and autologous procedures shall not be required to obtain separate
20 CON approval to begin performing both autologous and allogeneic BMT procedures.
21

22 (3) An existing BMT service that performs only adult procedures shall require separate CON
23 approval in order to perform pediatric procedures. An existing BMT service that performs only pediatric
24 procedures shall require separate CON approval in order to perform adult procedures.
25

26 **Section 2. Definitions**

27
28 Sec. 2. (1) As used in these standards:

29 (a) "Adult" means an individual age 18 or older.

30 (b) "Allogeneic" means transplantation between genetically non-identical individuals of the same
31 species.

32 (c) "Autologous" means transplantation in which the donor and recipient are the same individual.

33 (d) "Bone marrow transplantation service" or "BMT service" means the transplantation of
34 proliferating hematopoietic stem cells essential to the survival of a patient derived from the bone marrow,
35 the peripheral circulation, cord blood, or any other source. **THE TERM INCLUDES THE FOLLOWING**
36 **CELLULAR THERAPY PRODUCTS: CHIMERIC ANTIGEN RECEPTOR (CAR) T-CELLS, NATURAL**
37 **KILLER (NK) CELLS, DENDRITIC CELLS, MESENCHYMAL CELLS, AND GENE THERAPY PRODUCTS**
38 **DERIVED FROM HEMATOPOIETIC STEM CELLS WHEN USED TO TREAT A HEMATOLOGICAL**
39 **MALIGNANCY.**

40 (e) "Cancer hospital" means a hospital that is a Comprehensive Cancer Center designated by the
41 National Cancer Institute or operates a Comprehensive Cancer Center as an affiliate of a Michigan
42 university that is designated as a Comprehensive Cancer Center by the National Cancer Institute.

43 (f) "Certificate of Need Commission" or "CON Commission" means the Commission created
44 pursuant to Section 22211 of the Code, being Section 333.22211 of the Michigan Compiled Laws.

45 (g) "Comparative group" means the applications that have been grouped for the same type of
46 project in the same planning area and are being reviewed comparatively in accordance with the CON
47 rules.

48 (h) "Code" means Act No. 368 of the Public Acts of 1978, as amended, being Section 333.1101 et
49 seq. of the Michigan Compiled Laws.

50 (i) "Department" means the Michigan Department of ~~Community Health~~ **AND HUMAN SERVICES**
51 **(MDCHMDHHS).**

52 (j) "Department inventory of BMT services" means the list maintained by the Department of: (i) the
53 bone marrow transplantation services operating pursuant to a valid CON issued under Part 222 or former

54 Part 221; (ii) operating BMT services for which the operation of that service did not require a CON; and (iii)
55 BMT services that are not yet operational but have a valid CON issued under Part 222. The list shall
56 inventory adult and pediatric services separately and shall specify the site at which the BMT service is
57 authorized.

58 (k) "Existing BMT service," for purposes of Section 3(5) AND 3(11) of these standards, means any
59 of the following: (i) a BMT service listed on the Department inventory, (ii) a proposed BMT service under
60 appeal from a final decision of the Department, or (iii) a proposed BMT service that is part of a completed
61 application under Part 222 (other than the application under review) for which a proposed decision has
62 been issued and which is pending final decision.

63 (l) "Health service area" or "HSA" means the geographic area set forth in Appendix A.

64 (m) "Initiate" or "implement" means the performance of the first transplant procedure. The term of
65 an approved CON shall be 18 months or the extended period established by Rule 325.9403(2).

66 (n) "Institutional Review Board" or "IRB" means an institutional review board as defined by Public
67 Law 93-348 which is regulated by Title 45 CFR 46.

68 (o) "Licensed site" means the location of the hospital authorized by license and listed on that
69 licensee's certificate of licensure.

70 (p) "Medicaid" means title XIX of the social security act, chapter 531, 49 Stat. 620, 1396 to 1396g
71 and 1396i to 1396u.

72 (q) "Pediatric" means any patient 20 years of age or less or any patient with congenital conditions or
73 diseases for which BMT is a treatment.

74 (r) "Planning area" means:

75 (i) planning area one that includes the counties in health service areas 1, 2, 5, and 6, and the
76 following counties in health service area 7: Alcona, Alpena, Cheboygan, Crawford, Montmorency, Oscoda,
77 Otsego, and Presque Isle; or

78 (ii) planning area two that includes the counties in health service areas 3, 4, and 8, and the
79 following counties in health service area 7: Antrim, Benzie, Charlevoix, Emmet, Grand Traverse,
80 Kalkaska, Leelanau, Manistee, Missaukee, and Wexford.

81 (s) "Qualifying project" means each application in a comparative group that has been reviewed
82 individually and has been determined by the Department to have satisfied all of the requirements of
83 Section 22225 of the Code, being Section 333.22225 of the Michigan Compiled Laws, and all other
84 applicable requirements for approval in the Code and these standards.

85 (t) "Survival rate" means the rate calculated using the Kaplan-Meier technique and the following: (i)
86 the date of transplantation (or, if more than one transplant is performed, the date of the first transplant)
87 must be the starting date for calculation of the survival rate; (ii) for those dead, the date of death is used, if
88 known. If the date of death is unknown, it must be assumed as 1 day after the date of the last ascertained
89 survival; (iii) for those who have been ascertained as surviving within 60 days before the fiducial date (the
90 point in time when the facility's survival rates are calculated and its experience is reported), survival is
91 considered to be the date of the last ascertained survival, except for patients described in subsection (v);
92 (iv) any patient who is not known to be dead, but whose survival cannot be ascertained to a date that is
93 within 60 days before the fiducial date, must be considered as "lost to follow up" for the purposes of the
94 survival rate calculation; (v) any patient transplanted between 61 and 120 days before the fiducial date
95 must be considered as "lost to follow up" if he or she is not known to be dead and his or her survival has
96 not been ascertained for at least 60 days before the fiducial date. Any patient transplanted within 60 days
97 before the fiducial date must be considered as "lost to follow up" if he or she is not known to be dead and
98 his or her survival has not been ascertained on the fiducial date; and (vi) the survival analyses must use
99 the assumption that each patient in the "lost to follow up" category died 1 day after the last date of
100 ascertained survival. However, an applicant may submit additional analyses that reflect each patient in
101 the "lost to follow up" category as alive at the date of the last ascertained survival.

102 (u) "Tumor registry" means a manual or computerized data base containing information about all
103 malignancies and only those that are diagnosed and/or treated at the applicant's facility. The
104 malignancies must be reportable to the Michigan Cancer Surveillance Program as required pursuant to
105 Public Act 82 of 1984, as amended.

107 (2) The definitions of Part 222 shall apply to these standards.
108

109 **Section 3. Requirements to initiate a BMT service** 110

111 Sec. 3. Initiate a BMT service means to begin operation of a BMT service at a site that does not
112 provide either adult or pediatric BMT services and is not listed on the Department inventory as of the date
113 an application is submitted to the Department. The term includes an adult service that is proposing to
114 provide a pediatric BMT service, ~~and a pediatric service that is proposing to provide an adult BMT service,~~
115 AND AN EXISTING ADULT OR PEDIATRIC BMT SERVICE THAT IS PROPOSING TO PROVIDE
116 ADDITIONAL CELLULAR THERAPY PRODUCTS NOT PREVIOUSLY APPROVED FOR UNDER
117 THESE STANDARDS. The term does not include beginning operation of a BMT service by a cancer
118 hospital which acquires an existing BMT service provided that all of the staff, services, and programs
119 required under Section 3(3) are to be provided by the cancer hospital and/or by the hospital from which
120 the BMT service is being acquired. An applicant proposing to initiate a BMT service shall demonstrate the
121 following requirements, as applicable to the proposed project.
122

123 (1) An applicant shall specify in the application whether the proposed service will perform either or
124 both adult and pediatric BMT procedures.
125

126 (2) An applicant shall specify the licensed site at which the BMT service will be provided.
127

128 (3) An applicant proposing to initiate either an adult or pediatric BMT service shall demonstrate that
129 the licensed site at which the transplants will be offered provides each of the following staff, services, and
130 programs:

- 131 (a) operating rooms.
- 132 (b) continuous availability, on-site or physically connected, either immediate or on-call, of CT
133 scanning, magnetic resonance imaging, ultrasound, angiography, and nuclear medicine services.
- 134 (c) dialysis.
- 135 (d) inpatient-outpatient social work.
- 136 (e) inpatient-outpatient psychiatry/psychology.
- 137 (f) clinical research.
- 138 (g) a microbiology and virology laboratory.
- 139 (h) a histocompatibility laboratory that meets the standards of the American Society for
140 Histocompatibility and Immunogenetics, or an equivalent organization, either on-site or through written
141 agreement.
 - 142 (i) a hematopathology lab capable of performing cell phenotype analysis using flow cytometry.
 - 143 (j) a clinical chemistry lab with the capability to monitor antibiotic and antineoplastic drug levels,
144 available either on-site or through other arrangements that assure adequate availability.
 - 145 (k) other support services, as necessary, such as physical therapy and rehabilitation medicine.
 - 146 (l) continuous availability of anatomic and clinical pathology and laboratory services, including
147 clinical chemistry, and immuno-suppressive drug monitoring.
 - 148 (m) continuous availability of red cells, platelets, and other blood components.
 - 149 (n) an active medical staff that includes, but is not limited to, the following board-certified or board-
150 eligible specialists. For an applicant that is proposing to perform pediatric transplant procedures, these
151 specialists shall be board-certified or board-eligible in the pediatric discipline of each specialty.
 - 152 (i) anesthesiology.
 - 153 (ii) cardiology.
 - 154 (iii) critical care medicine.
 - 155 (iv) gastroenterology.
 - 156 (v) general surgery.
 - 157 (vi) hematology.
 - 158 (vii) infectious diseases.
 - 159 (viii) nephrology.

- 160 (ix) neurology.
161 (x) oncology.
162 (xi) pathology, including blood banking experience.
163 (xii) pulmonary medicine.
164 (xiii) radiation oncology.
165 (xiv) radiology.
166 (xv) urology.
167 (o) One or more consulting physicians who are board-certified or board-eligible in each of the
168 following specialties. For an applicant proposing to perform pediatric BMT procedures, these specialists
169 shall have specific experience in the care of pediatric patients.
170 (i) dermatology.
171 (ii) immunology.
172 (iii) neurosurgery.
173 (iv) orthopedic surgery.
174
175 (4) An applicant must provide an implementation plan for the proposed BMT service.
176 "Implementation plan" means a plan that documents how a proposed BMT service will be initiated within
177 the time period specified in these standards or the CON rules. At a minimum, the implementation plan
178 shall identify:
179 (a) each component or activity necessary to begin performing the proposed BMT service including,
180 but not limited to, the development of physical plant requirements, such as an intensive care unit capable
181 of treating immuno-suppressed patients, equipment acquisitions, and recruitment and employment of all
182 physician and support staff;
183 (b) the time table for completing each component or activity specified in subsection (a); and
184 (c) if the applicant previously has been approved for a BMT service for which either the CON
185 expired or the service did not perform a transplant procedure during any consecutive 12-month period,
186 what changes have or will be made to ensure that the proposed service can be initiated and provided on a
187 regular basis.
188
189 (5)(a) An applicant shall demonstrate that the number of existing adult BMT services does not exceed
190 three (3) adult BMT services in planning area one identified in Section 2(1)(t)(i) or one (1) adult BMT
191 service in planning area two identified in Section 2(1)(t)(ii) and that approval of the proposed application
192 will not result in the total number of adult BMT services exceeding the need for each specific planning
193 area.
194 (b) An applicant shall demonstrate that the number of existing pediatric BMT services does not
195 exceed two (2) pediatric BMT services in planning area one identified in Section 2(1)(t)(i) or one (1)
196 pediatric BMT service in planning area two identified in Section 2(1)(t)(ii) and that approval of the
197 proposed application will not result in the total number of pediatric BMT services exceeding the need for
198 each specific planning area.
199
200 (6)(a) An applicant proposing to initiate an adult BMT service shall project that at least 30 transplants,
201 of which at least 10 are allogeneic transplant procedures, will be performed in the third 12-months of
202 operation.
203 (b) An applicant proposing to initiate a pediatric BMT service shall project that at least 10
204 transplants, of which 5 are allogeneic transplant procedures, will be performed in the third 12-months of
205 operation.
206 (c) An applicant proposing to initiate both an adult and a pediatric BMT service shall specify
207 whether patients age 18-20 are included in the projection of adult procedures required pursuant to
208 subsection (a) or the projection of pediatric procedures required pursuant to subsection (b). An applicant
209 shall not include patients age 18-20 in both adult and pediatric projections required pursuant to
210 subsections (a) and (b).
211

- 212 (7) An applicant shall provide megavoltage radiation therapy services, either on-site or physically
213 connected, with a nominal beam energy of at least 6 MEV, including the capability to perform total body
214 irradiation.
- 215
- 216 (8) An applicant shall demonstrate that the licensed site at which the proposed BMT service is
217 proposed has an institutional review board.
- 218
- 219 (9) An applicant proposing to initiate a pediatric BMT service shall demonstrate that the licensed
220 site at which the pediatric transplant procedures will be performed has each of the following:
- 221 (a) a designated pediatric inpatient oncology unit.
- 222 (b) a pediatric inpatient intensive care unit.
- 223 (c) membership status in either the Pediatric Oncology Group (POG) or the Children's Cancer
224 Group (CCG).
- 225 (d) a pediatric tumor board that meets on a regularly scheduled basis.
- 226 (e) family support group services, provided either directly or through written agreements.
- 227 (f) a pediatric cancer program with the following staff:
- 228 (i) a director who is either a board-certified immunologist who has specific training and experience
229 in BMT or a board-certified pediatric hematologist/oncologist.
- 230 (ii) nurses with training and experience in pediatric oncology.
- 231 (iii) social workers with training and experience in pediatric oncology.
- 232 (iv) pediatric psychologists.
- 233 (v) child life specialists.
- 234
- 235 (10)(a) An applicant proposing to initiate either a new adult or pediatric BMT service shall submit, in its
236 application, a written consulting agreement with an existing BMT service. The written consulting
237 agreement must be with an existing in-state or out-of-state Foundation for the Accreditation of Cellular
238 Therapy (FACT) accredited transplant unit that performs both allogenic and autologous transplants for
239 either adult and/or pediatrics. The terms of the agreement and the roles and responsibilities of both the
240 existing and proposed service shall include at least the following:
- 241 (i) The term of the written consulting agreement is no less than 36 months after the proposed
242 service begins to perform BMT procedures.
- 243 (ii) One or more representatives of the existing BMT service have been designated as staff
244 responsible for carrying out the roles and responsibilities of the existing service.
- 245 (iii) The existing service shall evaluate and make recommendations to the proposed service on
246 policies and procedures, including time tables, for at least each of the following:
- 247 (A) nursing services.
- 248 (B) infection control.
- 249 (C) nutritional support.
- 250 (D) staff needs and training.
- 251 (E) inpatient and outpatient medical coverage.
- 252 (F) transfusion and blood bank policies.
- 253 (G) transplant treatment protocols.
- 254 (H) hematopoiesis laboratory services and personnel.
- 255 (I) data management.
- 256 (J) quality assurance program.
- 257 (iv) Specify a schedule of site visits by staff of the existing BMT service that, at a minimum,
258 includes:
- 259 (A) 3 visits during the first 12-months of operation of the proposed service.
- 260 (B) 3 visits during each the second 12-months and third 12-months of operation of the proposed
261 service.
- 262 (v) Specify that the purpose of the site visits required by subdivision (iv) is to assess the proposed
263 service and make recommendations related to quality assurance mechanisms of the proposed service,
264 including at least each of the following:

- 265 (A) a review of the number of patients transplanted.
266 (B) transplant outcomes.
267 (C) all infections requiring treatment or life-threatening toxicity, defined for purposes of this
268 agreement as National Cancer Institutes grade #3 or greater toxicity, excluding hematological toxicity.
269 (D) all deaths occurring within 100 days from transplant.
270 (E) each of the requirements of subdivision (iii).
271 (vi) Specify that a written report and minutes of each site visit shall be completed by the existing
272 BMT service and sent to the proposed service within 2 weeks of each visit, and that copies of the reports
273 and minutes shall be available to the Department upon request. At a minimum, the written report shall
274 address each of the items in subdivision (v).
275 (vii) Specify that the existing BMT service shall notify the Department and the proposed service
276 immediately if it determines that the proposed service may not be in compliance with any applicable quality
277 assurance requirements, and develop jointly with the proposed service a plan for immediate remedial
278 actions.
279 (viii) Specify that the existing BMT service shall notify the Department immediately if the consulting
280 agreement required pursuant to these standards is terminated and that the notification shall include a
281 statement describing the reasons for the termination.
282 (b) For purposes of subsection (10), "existing BMT service" means a service that meets all of the
283 following:
284 (i) currently is performing and is FACT accredited in, the types of transplants (allogeneic and
285 autologous; adult or pediatric) proposed to be performed by the applicant;
286 (ii) currently is certified as a National Marrow Donor Program; and
287 (iii) is located in the United States.
288 (c) An applicant shall document that the existing BMT service meets the requirements of
289 subsection (b).

290
291 **(11) AN APPLICANT PROPOSING TO INITIATE A BMT SERVICE THAT IS TO PROVIDE**
292 **ADDITIONAL CELLULAR THERAPY PRODUCTS NOT PREVIOUSLY APPROVED FOR UNDER**
293 **THESE STANDARDS SHALL DEMONSTRATE THE FOLLOWING:**

294 **(a) THE APPLICANT IS AN EXISTING ADULT OR PEDIATRIC BMT SERVICE THAT IS**
295 **MEETING VOLUME THE REQUIREMENTS IN SECTION 7(4).**

296 **(b) SUCH AN APPLICATION SHALL NOT BE SUBJECT TO COMPARATIVE REVIEW AND**
297 **SHALL BE PROCESSED UNDER THE PROCEDURES FOR NON-SUBSTANTIVE REVIEW.**

298 **(c) AN APPLICANT AGREES AND ASSURES TO COMPLY WITH ALL APPLICABLE PROJECT**
299 **DELIVERY REQUIREMENTS.**

300 301 **Section 4. Requirements for approval – acquisition of a BMT service by a cancer hospital**

302
303 Sec 4. Acquisition of a BMT service means the acquisition (including purchase, lease, donation, or
304 other arrangement) of an existing BMT service. An applicant proposing to acquire an existing BMT
305 service shall demonstrate the following, as applicable to the proposed project.

306
307 (1) The applicant meets all of the requirements of this subsection and shall not be required to be
308 in compliance with Section 3(5) and the department inventory.

309 (a) The total number of BMT services is not increased in the planning area as the result of the
310 acquisition.

311 (b) As part of the acquisition of the BMT service, the acquisition or replacement of the cancer
312 hospital, or for any other reasons, the location of the BMT service shall be located at its prior location
313 or in space within the licensed cancer hospital site.

314 (c) The applicant is a cancer hospital as defined by these standards.

315 (d) The applicant demonstrates that it meets, directly or through arrangements with the hospital
316 from which it acquires the BMT service, the requirements set forth under Section 3(3), (6), (7), and (8),
317 as applicable.

318 (e) The applicant agrees to either have a written consulting agreement as required by Section
319 3(10) or obtain a determination by the Department that such an agreement is not required because the
320 existing BMT staff, services, and program substantially will continue to be in place after the acquisition.

321 (f) The applicant agrees and assures to comply, either directly or through arrangements with
322 the hospital from which it acquires the BMT service, with all applicable project delivery requirements.

323
324 (2) An applicant approved for and holding a CON for BMT services under this section prior to
325 the effective date of this revision of the BMT standards, September 29, 2014, shall apply to reacquire
326 the BMT service, and the acquired BMT service shall be accountable under these revised standards.

327
328 (3) Applicants proposing to acquire an existing BMT service under this section shall not be
329 subject to comparative review.

330

331 **Section 5. Review standards for comparative reviews**

332

333 Sec. 5. (1) Any application subject to comparative review under Section 22229 of the Code, being
334 Section 333.22229 of the Michigan Compiled Laws, or under these standards, shall be grouped and
335 reviewed comparatively with other applications in accordance with the CON rules applicable.

336

337 (2) Each application in a comparative group shall be individually reviewed to determine whether the
338 application has satisfied all the requirements of Section 22225 of the Code being Section 333.22225 of the
339 Michigan Compiled Laws and all other applicable requirements for approval in the Code and these
340 standards. If the Department determines that two or more competing applications satisfy all of the
341 requirements for approval, these projects shall be considered qualifying projects. The Department shall
342 approve those qualifying projects which, when taken together, do not exceed the need, as defined in
343 Section 22225(1) being Section 333. 22225(1) of the Michigan Compiled Laws, and which have the
344 highest number of points when the results of subsection (2) are totaled. If two or more qualifying projects
345 are determined to have an identical number of points, then the Department shall approve those qualifying
346 projects which, taken together, do not exceed the need, as defined in Section 22225(1) of the Code, being
347 Section 333. 22225(1) of the Michigan Compiled Laws, in the order in which the applications were
348 received by the Department, based on the date and time stamp placed on the applications by the CON
349 administrative unit of the Department responsible for administering the CON program when an application
350 is submitted.

351

352 (3)(a) A qualifying project will have points awarded based on the straight-line distance to the nearest
353 existing BMT service of the type applied for (adult or pediatric), as shown in the following schedule:

354

355	Straight-line Distance	Points
356	to Nearest BMT Service	Awarded
357		
358	<75 miles	0
359	75 – 150 miles	1
360	>150 miles	2

361

362 (b) A qualifying project will have up to 4 points awarded based on the percentage of the
363 medical/surgical indigent volume at the licensed site at which the proposed BMT service will be provided
364 in accordance with the following:

365 (i) For each applicant in the same comparative group, determine the medical/surgical indigent
366 volume. Determine the licensed site that has the highest indigent volume in the same comparative group.
367 Divide the medical/surgical indigent volume for that licensed site by 4.0. The result is the indigent volume
368 factor rounded to the nearest whole number.

369 (ii) For each applicant in the same comparative group, divide the medical/surgical indigent volume
370 by the indigent volume factor determined in subdivision (i). The result, to the nearest whole number, is the
371 number of points that will be awarded to each applicant pursuant to this subsection.

372 For purposes of this subsection, indigent volume means the ratio of a hospital's indigent charges to
373 its total hospital charges expressed as a percentage, rounded to the nearest whole number, as
374 determined by the Michigan Department of Community Health Medical Services Administration. The
375 indigent volume data being used in this subsection is the data in the most current DCH-MSA
376 Disproportionate Share Hospital (DSH) Report at the time the application(s) is deemed submitted by the
377 Department.

378 (c) A qualifying project will have 2 points awarded if an applicant documents that, during the 36-
379 month period prior to the date an application is submitted to the Department, at least 15 patients received
380 pre- and post-transplant care at the licensed hospital site at which the BMT procedures will be performed
381 and were referred for and received a BMT at an existing BMT service, and submits documentation from
382 the existing BMT service(s) of these referrals.

383 (d) A qualifying project will have points awarded based on the number of necessary support
384 services/personnel as identified in Section 7 that the applicant has available on-site on the date the
385 application is submitted to the Department, as follows:

386 (i) 24-hour blood bank support, including pheresis capability, irradiated blood, products suitable for
387 cytomegalovirus-negative transplants, and blood component therapy.

388 (ii) a processing and cryopreservation laboratory that meets the standards of the fact or an
389 equivalent organization.

390 (iii) anatomic and clinical pathology with competency in interpreting pathologic findings related to
391 graft-v-host disease and other opportunistic infections in immuno-compromised hosts.

392 (iv) therapeutic drug monitoring.

393 (v) one or more attending physicians with fellowship training, and/or at least 2 years of experience,
394 in pediatric and/or adult BMT, as appropriate.

395 (vi) board-certified or board-eligible consulting physicians in all of the following areas: anatomic
396 pathology with competence in graft versus host disease and other opportunistic diseases, infectious diseases
397 with experience in immuno-compromised hosts, and radiation oncology with experience in total body
398 irradiation.

399 (vii) a transplant team coordinator, with experience in evaluating pre and post BMT patients.

400 (viii) nurses with specialized training in pediatric and/or adult, as appropriate, BMT,
401 hematology/oncology patient care, administration of cytotoxic therapies, management of infectious
402 complications associated with host-defense mechanisms, administration of blood components, the
403 hemodynamic support of the transplant patient, and managing immuno-suppressed patients.

404 (ix) a pharmacist experienced with the use of cytotoxic therapies, use of blood components, the
405 hemodynamic support of the transplant patient, and the management of immuno-suppressed patients.

406 (x) an active, formal multi-disciplinary research program related to BMT.

407 (xi) a protective environmental inpatient unit for immuno-suppressed patients that has an isolation
408 policy, an infection control plan specific to that unit, and air handling system capable of preventing nosocomial
409 infections disseminated from central heating and cooling systems and ambient air.

410

411 The applicant shall receive points, up to a maximum of three (3), for this criterion according to the
412 following schedule:

413

Number of BMT Support Personnel/Services Available	Points
zero or one	0
two to five	1
six to nine	2
ten or eleven	3

414

415 (4) Submission of conflicting information in this section may result in a lower point award. If an
416 application contains conflicting information which could result in a different point value being awarded in
417 this section, the Department will award points based on the lower point value that could be awarded from
418 the conflicting information. For example, if submitted information would result in 6 points being awarded,
419 but other conflicting information would result in 12 points being awarded, then 6 points will be awarded. If
420 the conflicting information does not affect the point value, the Department will award points accordingly.
421 For example, if submitted information would result in 12 points being awarded and other conflicting
422 information would also result in 12 points being awarded, then 12 points will be awarded.

423

424 **Section 6. Requirements for Medicaid participation**

425

426 Sec. 6. An applicant shall provide verification of Medicaid participation. An applicant that is a new
427 provider not currently enrolled in Medicaid shall certify that proof of Medicaid participation will be provided
428 to the Department within six (6) months from the offering of services if a CON is approved.

429

430 **Section 7. Project delivery requirements terms of approval for all applicants**

431

432 Sec. 7. An applicant shall agree that, if approved, the BMT service shall be delivered in compliance
433 with the following terms of approval:

434

435 (1) Compliance with these standards. An applicant shall immediately report to the Department any
436 changes in key staff or other aspects of the BMT service that may affect its ability to comply with these
437 standards.

438

439 (2) Compliance with the following quality assurance requirements, as applicable, no later than the
440 date the first BMT procedure, allogeneic or autologous, is performed:

441 (a) An applicant shall establish and maintain, either on-site or through written agreements, all of the
442 following:

443 (i) 24-hour blood bank support, including pheresis capability, irradiated blood, products suitable for
444 cytomegalovirus-negative transplants, and blood component therapy.

445 (ii) a cytogenetics and/or molecular genetic laboratory.

446 (iii) a processing and cryopreservation laboratory that meets the standards of the FACT or an
447 equivalent organization.

448 (iv) a histocompatibility laboratory that has the capability of DNA-based HLA-typing and meets the
449 standards of the American Society for Histocompatibility and Immunogenetics or an equivalent
450 organization.

451 (v) anatomic and clinical pathology with competency in interpreting pathologic findings related to
452 graft-v-host disease (programs performing allogeneic transplants) and other opportunistic infections in
453 immuno-compromised hosts (programs performing allogeneic and autologous transplants).

454 (vi) therapeutic drug monitoring.

455 (b) An applicant shall establish and maintain, at the licensed hospital site at which the transplants
456 are performed, both of the following:

457 (i) a protective environmental BMT inpatient unit for immuno-suppressed patients that has an
458 isolation policy, an infection control plan specific to that unit, and an air handling system capable of
459 preventing nosocomial infections disseminated from central heating and cooling systems and ambient air.

460 (ii) a specialized intensive care unit capable of treating immuno-suppressed neutropenic patients.

461 (c) An applicant shall establish and maintain written policies related to outpatient care for BMT
462 patients, including at least the following:

463 (i) the ability to evaluate and provide treatment on a 24-hour basis.

464 (ii) nurses experienced in the care of BMT patients.

465 (iii) a designated outpatient area for patients requiring long-duration infusions or the administration
466 of multiple medications or blood product transfusions.

467 (d) A BMT service shall establish and maintain a dedicated transplant team that includes at least
468 the following staff:

469 (i) a transplant team leader, who is a physician that is board-certified in at least one of the following
470 specialties: hematology, medical oncology, immunology, or pediatric hematology/oncology, as appropriate,
471 and has had either at least one year of specific clinical training or two years of experience, both inpatient
472 and outpatient, as an attending physician principally responsible for the clinical management of patients
473 treated with hematopoietic transplantation. The team leader's experience shall include the clinical
474 management of patients receiving an allogeneic transplant. The responsibilities of the transplant team
475 leader shall include overseeing the medical care provided by attending physicians, reporting required data
476 to the Department, and responsibility for ensuring compliance with the all applicable project delivery
477 requirements.

478 (ii) one or more attending physicians with specialized training in pediatric and/or adult BMT, as
479 appropriate. At least one attending physician shall have specialized training in allogeneic transplantation,
480 adult or pediatric, as appropriate. An attending physician shall be board-certified or board-eligible in
481 hematology, medical oncology, immunology, or pediatric hematology/oncology, as appropriate.

482 (iii) on-site availability of board-certified or board-eligible consulting physicians, adult and/or pediatric,
483 as appropriate, in at least the following specialties: cardiology, gastroenterology nephrology, psychiatry,
484 pulmonary medicine, and critical care medicine.

485 (iv) on-site availability of board-certified or board-eligible consulting physicians in the following areas:
486 anatomic pathology with competence in graft versus host disease (services performing allogeneic
487 transplants) and other opportunistic diseases (services performing allogeneic and autologous transplants),
488 infectious diseases with experience in immuno-compromised hosts, and radiation oncology with experience
489 in total body irradiation.

490 (v) a transplant team coordinator, who shall be responsible for providing pre-transplant patient
491 evaluation and coordinating treatment and post-transplant follow-up and care.

492 (vi) a nurse to patient ratio necessary to provide care consistent with the severity of a patient's clinical
493 status.

494 (vii) nurses with specialized training in pediatric and/or adult, as appropriate, BMT,
495 hematology/oncology patient care, administration of cytotoxic therapies, management of infectious
496 complications associated with compromised host-defense mechanisms, administration of blood components,
497 the hemodynamic support of the transplant patient, and managing immuno-suppressed patients.

498 (viii) a pharmacist experienced with the use of cytotoxic therapies, use of blood components, the
499 hemodynamic support of the transplant patient, and the management of immuno-suppressed patients.

500 (ix) dietary staff capable of providing dietary consultations regarding a patient's nutritional status,
501 including total parenteral nutrition.

502 (x) designated social services staff.

503 (xi) designated physical therapy staff.

504 (xii) data management personnel designated to the BMT service.

505 (xiii) for an applicant performing pediatric BMT, a child-life specialist.

506 (e) In addition to the dedicated transplant team required in subsection (d), an applicant's staff shall
507 include a patient ombudsman, who is familiar with the BMT service, but who is not a member of the
508 transplant team.

509 (f) An applicant shall develop and maintain patient management plans and protocols that include the
510 following:

511 (i) therapeutic and evaluative procedures for the acute and long-term management of a patient.

512 (ii) patient management and evaluation during the waiting, in-hospital and immediate post-
513 discharge phases of the service.

514 (iii) long-term management and evaluation, including education of the patient, liaison with the
515 patient's attending physician, and the maintenance of active patient records for at least 5 years.

516 (iv) IRB approval of all clinical research protocols, or if transplantation does not require an IRB-
517 approved clinical research protocol, written policies and procedures that include at least the following:
518 donor, if applicable, and recipient selection, transplantation evaluations, administration of the preparative

519 regimen, post-transplantation care, prevention and treatment of graft-versus-host disease, and follow-up
520 care.

521 (g) An applicant shall establish and maintain a written quality assurance plan.

522 (h) An applicant shall implement a program of education and training for nurses, technicians,
523 service personnel, and other hospital staff.

524 (i) An applicant shall participate actively in the education of the general public and the medical
525 community with regard to BMT, and make donation literature available in public areas of the institution.

526 (j) An applicant shall establish and maintain an active, formal multi-disciplinary research program
527 related to the proposed BMT service.

528 (k) An applicant shall operate, either on-site or under its direct control, a multi-disciplinary selection
529 committee which includes, but is not limited to, a social worker, a mental health professional, and
530 physicians experienced in treating BMT patients.

531 (l) A pediatric BMT service shall maintain membership status in the Children's Oncology Group
532 (COG).

533 (m) For purposes of evaluating subsection (2), except subdivision (k), the Department shall consider
534 it prima facie evidence as to compliance with the applicable requirements if an applicant documents that
535 the BMT service is accredited by the National Marrow Donor Program (NMDP) or the Foundation for the
536 Accreditation of Cell Therapy (FACT).

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538 (3) Compliance with the following access to care requirements:

539 (a) The BMT service shall accept referrals for BMT services from all appropriately licensed health care
540 practitioners.

541 (b) The BMT service shall participate in Medicaid at least 12 consecutive months within the first two
542 years of operation and continue to participate annually thereafter.

543 (c) The BMT service shall not deny BMT services to any individual based on ability to pay or source
544 of payment.

545 (d) The operation of and referral of patients to the BMT service shall be in conformance with 1978
546 PA 368, Sec. 16221, as amended by 1986 PA 319; MCL 333.16221; MSA 14.15 (16221).

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548 (4) Compliance with the following monitoring and reporting requirements:

549 (a) An adult BMT service shall perform at least 30 transplants, of which at least 10 are allogeneic
550 transplants, in the third 12-months of operation and annually thereafter.

551 (b) A pediatric BMT service shall perform at least 10 transplants, of which at least 5 are allogeneic
552 transplants, in the third 12-months of operation. After the third 12-months of operation, an applicant shall
553 perform at least 30 pediatric transplants in any 36-month consecutive period, with no fewer than 5
554 allogeneic transplants in any 12-month period, beginning with the third 12-months of operation, and
555 thereafter.

556 (c) A BMT service that performs both adult and pediatric BMT shall specify whether each patient
557 age 18-20 is included in the category of adult procedures or the category of pediatric procedures. An
558 applicant shall determine for each patient age 18-20 whether to record that patient as an adult or a
559 pediatric procedure, but an applicant shall record each patient age 18-20 in only 1 category.

560 (d) The applicant shall participate in a data collection network established and administered by the
561 Department or its designee. The data may include, but is not limited to, annual budget and cost information,
562 demographic and diagnostic information, primary and secondary diagnoses, whether the transplant
563 procedure was a first or repeat transplant procedure, length of stay, the volume of care provided to patients
564 from all payor sources, and other data requested by the Department and approved by the CON Commission.
565 The applicant shall provide the required data on an individual basis for each designated licensed site; in a
566 format established by the Department; and in a mutually-agreed upon media. The Department may elect to
567 verify the data through on-site review of appropriate records. In addition, an applicant shall report at least the
568 following data for each patient:

569 (i) disease type.

570 (ii) transplant type, i.e., related allogeneic, unrelated allogeneic, and autologous.

571 (iii) source of hematopoietic ~~stem~~-cell, i.e., bone marrow, peripheral circulation, cord blood, etc.

- 572 (iv) patient age, i.e., adult or pediatric as defined by these standards.
- 573 (v) data on 100-day, 6-month, 1-year, 2-year, and 5-year survival rates.
- 574 (vi) relapse rates at 6-months, 1-year, and 5-years post-transplant.
- 575 (vii) median follow-up, and patients lost-to-follow-up.
- 576 (viii) cause(s) of death, if applicable.
- 577 (ix) additional summary information, as applicable.

578 An applicant annually shall report for its BMT service annual and cumulative survival rates by type of
579 transplant performed reported in actual number of transplants by disease category, transplant type, i.e.,
580 related allogeneic, unrelated allogeneic, and autologous; source of hematopoietic stem cell; patient age, i.e.,
581 adult or pediatric, as defined by these standards; and relapse rates at 100-days, 6-months, one year, and five
582 years post-transplant. For purposes of these standards, procedure-related mortality is defined as death
583 occurring within 100 days from BMT.

584 (e) The applicant shall maintain an organized institutional transplant registry for recording ongoing
585 information on its patients being evaluated for transplant and on its transplant recipients and shall participate
586 in the national and international registries applicable to the BMT service.

587 (f) The BMT service shall provide the Department with timely notice of the proposed project
588 implementation consistent with applicable statute and promulgated rules. A BMT service that initially does
589 not perform both allogeneic and autologous procedures also shall notify the Department when it begins to
590 perform autologous procedures.

591 (g) An applicant shall notify the Department immediately if the consulting agreement required
592 pursuant to Section 3(10) of these standards is terminated prior to the end of the first 36-months of
593 operation of the BMT service. The notification shall include a statement describing the reasons for the
594 termination. An applicant shall have 30 days following termination of that agreement to enter into a written
595 consulting agreement that meets the requirements of Section 3(10). An applicant shall provide the
596 Department with a copy of that written consulting agreement.

597 (h) The Department may use the information provided pursuant to Section 3(10) of these standards
598 in evaluating compliance with the requirements of this section.

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600 (5) The agreements and assurances required by this section shall be in the form of a certification
601 agreed to by the applicant or its authorized agent.

602 **Section 8. Documentation of projections**

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605 Sec. 8. An applicant required to project volumes of service under Section 3 shall specify how the
606 volume projections were developed. The applicant shall use relevant and unduplicated data for
607 patients in the same planning area as the proposed BMT service, which are verifiable from the most
608 recent statewide tumor registry. The applicant shall only include new cancer cases that are
609 appropriate for referral for BMT services and from the age grouping of patients based on the type of
610 service to be offered. This specification of projections shall include an assessment of the accuracy of
611 projections, and of the statistical method used to make the projections. Based on this documentation,
612 the Department shall determine if the projections are reasonable.

613 **Section 9. Department Inventory of BMT Services**

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616 Sec. 9. The Department shall maintain, and provide on request, a listing of the Department Inventory
617 of BMT services.

618 **Section 10. Effect on prior CON Review Standards; comparative reviews**

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621 Sec. 10. (1) These CON review standards supersede and replace the CON Review Standards for
622 Extrarenal Organ Transplantation Services pertaining to BMT services approved by the CON Commission
623 on December 13, 2012, JUNE 12, 2014 and effective on March 22, 2013, SEPTEMBER 29, 2014.

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625 (2) Projects reviewed under these standards shall be subject to comparative review except for
626 Section 4.
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Counties assigned to each health service area are as follows:

HEALTH SERVICE AREA	COUNTIES		
1	Livingston Macomb Wayne	Monroe Oakland	St. Clair Washtenaw
2	Clinton Eaton	Hillsdale Ingham	Jackson Lenawee
3	Barry Berrien Branch	Calhoun Cass Kalamazoo	St. Joseph Van Buren
4	Allegan Ionia Kent Lake	Mason Mecosta Montcalm Muskegon	Newaygo Oceana Osceola Ottawa
5	Genesee	Lapeer	Shiawassee
6	Arenac Bay Clare Gladwin Gratiot	Huron Iosco Isabella Midland Ogemaw	Roscommon Saginaw Sanilac Tuscola
7	Alcona Alpena Antrim Benzie Charlevoix Cheboygan	Crawford Emmet Gd Traverse Kalkaska Leelanau Manistee	Missaukee Montmorency Oscoda Otsego Presque Isle Wexford
8	Alger Baraga Chippewa Delta Dickinson	Gogebic Houghton Iron Keweenaw Luce	Mackinac Marquette Menominee Ontonagon Schoolcraft