

1 **California Code of Regulations**
2 **TITLE 22. SOCIAL SECURITY**
3 **DIVISION 9. PREHOSPITAL EMERGENCY MEDICAL SERVICES**
4 **CHAPTER 7.2. STROKE CRITICAL CARE SYSTEM**

5 **ARTICLE 1. DEFINITIONS**

6 **§ 100270.200. Board-certified**

7 “Board-certified” means a physician who has fulfilled all of the Accreditation Council for
8 Graduate Medical Education (ACGME) requirements in a specialty field, and has been
9 awarded a board diploma by an ACGME approved program.

10 Note: Authority cited: Sections 1797.107 and 1798.150, Health and Safety Code.

11 Reference: Sections 1797.103 and 1797.176, Health and Safety Code.

12 **§ 100270.201. Board-eligible**

13 “Board-eligible” means a physician has applied to a specialty board and received a
14 ruling that he or she has fulfilled the requirements to take the examination. Board
15 certification must be obtained within five (5) years of the first appointment.

16 Note: Authority cited: Sections 1797.107, 1797.176, and 1798.150, Health and Safety
17 Code. Reference: Sections 1797.103 and 1797.176, Health and Safety Code.

18 **§ 100270.202. Clinical Stroke Team**

19 “Clinical Stroke Team” means a team of healthcare professionals who provide care for
20 the stroke patient and may include, but is not limited to, neurologists,
21 neurointerventionalists, neurosurgeons, anesthesiologists, emergency medicine
22 physicians, registered nurses, advanced practice nurses, physician assistants,
23 pharmacists, and technologists.

24 Note: Authority cited: Sections 1797.107, 1797.176, and 1798.150, Health and Safety
25 Code. Reference: Sections 1797.103 and 1797.176, Health and Safety Code.

26

27 **§ 100270.203. Continuing Medical Education**

28 “Continuing Medical Education” or “CME” means education required for the
29 maintenance of a license and refers to the highest level of continuing education
30 approved or recognized by the national and/or state professional organization.

31 Note: Authority cited: Sections 1797.107, 1797.176, and 1798.150, Health and Safety
32 Code. Reference: Sections 1797.103 and 1797.176, Health and Safety Code.

33 **§ 100270.204. Emergency Medical Services Authority**

34 “Emergency Medical Services Authority” or “EMS Authority” means the department in
35 California that is responsible for the coordination and the integration of all state activities
36 concerning Emergency Medical Services (EMS).

37 Note: Authority cited: Sections 1797.107 and 1797.54, Health and Safety Code.
38 Reference: Sections 1797.100, and 1797.103, Health and Safety Code.

39 **§ 100270.205. Immediately Available**

40 “Immediately Available” means:

- 41 (a) unencumbered by conflicting duties or responsibilities,
42 (b) responding without delay upon receiving notification, and
43 (c) being physically available to the specified area of the hospital when the patient is
44 delivered in accordance with local EMS agency policies and procedures.

45 Note: Authority cited: Sections 1797.107, 1797.176, and 1798.150, Health and Safety
46 Code. Reference: Sections 1797.103 and 1797.176, Health and Safety Code.

47 **§ 100270.206. Local Emergency Medical Services Agency**

48 “Local Emergency Medical Services Agency” or “local EMS agency” means a county
49 health department, an agency established and operated by the county, an entity with
50 which the county contracts for the purposes of local emergency medical services
51 administration, or a joint-powers agency created for the administration of emergency
52 medical services by agreement between counties or cities and which is designated

53 pursuant to the California Health and Safety Code, Division 2.5, Chapter 4, Section
54 1797.200.

55 Note: Authority cited: Sections 1797.94, 1797.107, 1797.176, and 1797.200, Health and
56 Safety Code. Reference: Section 1797.94, Health and Safety Code.

57 **§ 100270.207. Protocol**

58 “Protocol” means a predetermined, written medical care guideline, which may include
59 standing orders.

60 Note: Authority cited: Sections 1797.107, 1797.176, 1797.220, and 1798.150, Health
61 and Safety Code. Reference: Sections 1797.103 and 1797.176, Health and Safety
62 Code.

63 **§ 100270.208. Stroke**

64 “Stroke” means a condition of impaired blood flow to a patient’s brain resulting in brain
65 dysfunction.

66 Note: Authority cited: Sections 1797.107, 1797.176, and 1798.150, Health and Safety
67 Code. Reference: Sections 1797.103 and 1797.176, Health and Safety Code.

68 **§ 100270.209. Stroke Call Roster**

69 “Stroke Call Roster” means a schedule of licensed health professionals available
70 twenty-four (24) hours a day, seven (7) days a week for the care of stroke patients.

71 Note: Authority cited: Sections 1797.107, 1797.176, and 1798.150, Health and Safety
72 Code. Reference: Sections 1797.103 and 1797.220, Health and Safety Code.

73 **§ 100270.210. Stroke Care**

74 “Stroke Care” means emergency transport, triage, acute intervention and other acute
75 care services for stroke that potentially requires immediate medical or surgical
76 intervention treatment, and may include education, primary prevention, acute
77 intervention, acute and subacute management, prevention of complications, secondary

78 stroke prevention, and rehabilitative services.

79 Note: Authority cited: Sections 1797.107, 1797.176, and 1798.150, Health and Safety
80 Code. Reference: Sections 1797.103, 1797.176, and 1797.220, Health and Safety
81 Code.

82 **§ 100270.211. Stroke Medical Director**

83 “Stroke Medical Director” means a physician designated by the hospital who is
84 responsible for the stroke service, performance improvement, and patient safety
85 programs related to the Stroke Critical Care System.

86 Note: Authority cited: Sections 1797.107, 1797.176, and 1798.150, Health and Safety
87 Code. Reference: Sections 1797.103, 1797.176, and 1797.220, Health and Safety
88 Code.

89 **§ 100270.212. Stroke Program Manager/Coordinator**

90 “Stroke Program Manager/Coordinator” means a registered nurse or qualified individual
91 designated by the hospital with the responsibility for monitoring and evaluating the care
92 of stroke patients and the coordination of performance improvement and patient safety
93 programs for the stroke center in conjunction with the stroke medical director.

94 Note: Authority cited: Sections 1797.107, 1797.176, and 1798.150, Health and Safety
95 Code. Reference: Sections 1797.103, 1797.176, and 1797.220, Health and Safety
96 Code.

97 **§ 100270.213. Stroke Program**

98 “Stroke Program” means an organizational component of the hospital specializing in the
99 care of stroke patients.

100 Note: Authority cited: Sections 1797.107, 1797.176, and 1798.150, Health and Safety
101 Code. Reference: Sections 1797.103, 1797.176, and 1797.220, Health and Safety
102 Code.

103 **§ 100270.214. Stroke Critical Care System**

104 “Stroke Critical Care System” means a subspecialty care component of the EMS
105 system developed by a local EMS agency. This critical care system links prehospital
106 and hospital care to deliver treatment to stroke patients who potentially require
107 immediate medical or surgical intervention.

108 Note: Authority cited: Sections 1797.107, 1797.176, and 1798.150, Health and Safety
109 Code. Reference: Sections 1797.103, 1797.176, and 1797.220, Health and Safety
110 Code.

111 **§ 100270.215. Stroke Team**

112 “Stroke Team” means the clinical stroke team, support personnel, and administrative
113 staff.

114 Note: Authority cited: Sections 1797.107, 1797.176, and 1798.150, Health and Safety
115 Code. Reference: Sections 1797.103, 1797.176, and 1797.220, Health and Safety
116 Code.

117 **§ 100270.216. Telemedicine**

118 “Telemedicine” means the use of medical information exchanged from one site to
119 another via electronic communications to manage and improve a patient’s health status.
120 A neurology specialist will assist the physician in the center in rendering a diagnosis.
121 This may involve a patient “seeing” a specialist over a live, remote consult or the
122 transmission of diagnostic images and/or video along with patient data to the specialist.

123 Note: Authority cited: Sections 1797.107, 1797.176, and 1798.150, Health and Safety
124 Code. Reference: Sections 1797.103, 1797.176, and 1797.220, Health and Safety
125 Code.

126 **ARTICLE 2. LOCAL EMS AGENCY STROKE CRITICAL CARE SYSTEM**
127 **REQUIREMENTS**

128 **§ 100270.217. General Requirements and Timeframes**

129 (a) The local EMS agency may develop and implement a Stroke Critical Care System.

- 130 (b) Each local EMS agency implementing a Stroke Critical Care System shall submit
131 to the EMS Authority a Stroke System Plan in accordance with the requirements in
132 section 100270.222.
- 133 (c) A new Stroke Critical Care System that starts after the effective date of these
134 regulations shall have the Stroke System Plans approved by the EMS Authority prior to
135 implementation. The authority shall notify the local EMS agency of approval or
136 disapproval of its Stroke System Plan within 30 days from receipt of the Plan. If the
137 EMS Authority disapproves a plan, it shall provide written notification including the
138 reason(s) for the disapproval and the corrective action items required.
- 139 (d) The local EMS agency shall provide a corrected plan to the EMS Authority within
140 60 days of receipt of the disapproval letter.
- 141 (e) A local EMS agency that is currently operating a Stroke Critical Care System
142 implemented prior to the effective date of these regulations, shall submit, to the
143 authority, a Stroke System Plan as an addendum to its annual EMS Plan update within
144 180 days of the effective date of these regulations.
- 145 (f) After approval of the plan, the local EMS agency shall submit an update to its
146 Stroke System Plan as part of its annual EMS Plan update, consistent with the
147 requirements in section 100270.218.

148 Note: Authority cited: Sections 1797.107, 1797.173, 1797.176, 1797.250, and 1798.150,
149 Health and Safety Code. Reference: Sections 1797.105, 1797.176, and 1797.220,
150 Health and Safety Code.

151 **§ 100270.218. State Stroke System Plan Requirements**

152 The Stroke System Plan submitted to the EMS Authority shall include, at a minimum,
153 the following components:

- 154 (a) the names and titles of the local EMS agency personnel who have a role in the
155 Stroke Critical Care System,
- 156 (b) copies of agreements with hospitals for designation of stroke facilities,
- 157 (c) description or copy of the local EMS agency's stroke patient identification and
158 destination policies,

- 159 (d) description or copy of the method of field communication to the receiving hospital
160 specific to stroke patients.
- 161 (e) description or copy of policy that facilitates the inter-facility transfer of stroke
162 patients.
- 163 (f) description of the method of data collection from the EMS providers and
164 designated stroke hospitals to the local EMS agency and the EMS Authority.
- 165 (g) a copy of all written agreements with neighboring local EMS agencies to provide
166 stroke care.
- 167 (h) description of the integration of stroke into existing Quality Improvement QI
168 Committee or description of any stroke specific QI committee, and
- 169 (i) description of programs to conduct or promote public education specific to Stroke
170 and Cardiac Care.

171 Note: Authority cited: Sections 1797.103, 1797.105, 1797.107, 1797.176, 1797.220,
172 1797.250, 1798.150, 1798.170, and 1798.172, Health and Safety Code. Reference:
173 Sections 1797.176, and 1797.220, Health and Safety Code.

174 **§ 100270.219. Stroke System Plan Updates**

175 The local EMS agency shall submit a Stroke System Plan update as part of its annual
176 EMS plan update. The update shall include, at a minimum, the following:

- 177 (a) any changes in the Stroke Critical Care System since submission of the prior
178 annual plan update or the Stroke System Plan addendum.
- 179 (b) status of Stroke System Plan goals and objectives.
- 180 (c) Stroke Critical Care System performance improvement activities, and
- 181 (d) progress on addressing action items and recommendations provided by the EMS
182 Authority within the Stroke System Plan or status report approval letter if applicable.

183 Note: Authority cited: Sections 1797.103, 1797.107, 1797.176, 1797.250, 1797.254,
184 1798.150, and 1798.172, Health and Safety Code. Reference: Sections 1797.176,
185 1797.220, 1797.222, and 1798.170, Health and Safety Code.

186
187

188 **ARTICLE 3. PREHOSPITAL STROKE CRITICAL CARE SYSTEM REQUIREMENTS**

189 **§ 100270.220. EMS Personnel and Early Recognition**

190 (a) The local EMS agency shall ensure that pre-hospital stroke assessment and
191 treatment training is available for pre-hospital emergency medical care personnel as
192 determined by the LEMSA as part of accreditation.

193 (b) The local EMS agency shall require the use of a validated pre-hospital stroke-
194 screening algorithm for early recognition and assessment.

195 (c) The local EMS agency's protocols for the use of online medical direction shall be
196 utilized for suspicious or complex findings.

197 (d) The prehospital treatment policies for stroke-specific basic life support (BLS),
198 advanced life support (ALS), and limited advanced life support (LALS) shall be
199 developed according to scope of practice and local accreditation.

200 (e) Prehospital findings of suspected stroke patient, as defined by the local EMS
201 agency, will be communicated to the Stroke Center of Care facility in advance of arrival,
202 according to the local EMS agency's Stroke System Plan.

203 Note: Authority cited: Sections 1797.92, 1797.103, 1797.107, 1797.176, 1797.189(a)
204 (2), 1797.206, 1797.214, and 1798.150, Health and Safety Code. Reference: Sections
205 1797.176, 1797.220, 1798.150, and 1798.170, Health and Safety Code.

206 **ARTICLE 4. HOSPITAL STROKE CARE REQUIREMENTS**

207 Any stroke center designated by the local EMS agency prior to implementation of these
208 regulations shall continue to operate. Upon re-designation, by the local EMS agency at
209 the next regular interval, stroke centers shall be re-evaluated to meet the criteria
210 established in these regulations.

211 **§ 100270.221. Primary Stroke Centers**

212 Hospitals to be designated by the local EMS agency as a Primary Stroke Center shall
213 meet the following minimum criteria to provide care for stroke patients in the emergency
214 department and those patients that are admitted:

- 215 (a) adequate staff, equipment, and training to perform rapid evaluation, triage and
216 treatment for the stroke patient in the emergency department;
217 (b) standardized stroke care pathway;
218 (c) twenty-four (24) hours a day, seven (7) days a week stroke diagnosis and
219 treatment capacity; and
220 (d) a quality improvement system, including data collection.

221 Note: Authority cited: Sections 1797.103, 1797.107, 1797.176, 1797.220, 1798.150,
222 1798.167, and 1798.172, Health and Safety Code. Reference: Sections 1797.176,
223 1797.220, 1798.150, and 1798.170, Health and Safety Code.

224

225 **§ 100270.222. Evaluation of Primary Stroke Centers**

226 The local EMS agency is to ensure evaluation of the Primary Stroke Center occurs as
227 part of their Stroke Critical Care System including assessment of the following:

- 228 (a) The hospital shall be committed to supporting the Stroke Critical Care System.
229 (b) An acute stroke team, available to see in person or via telemedicine, a patient
230 identified as a potential acute stroke patient within 15 minutes following the patient's
231 arrival at the hospital's emergency department or within 15 minutes following a
232 diagnosis of a patient's potential acute stroke.
233 (c) Written policies and procedures for stroke services that are reviewed at least every
234 two (2) years, revised more frequently as needed, and implemented. These policies and
235 procedures shall include written protocols and standardized orders for emergency care
236 of stroke patients.
237 (d) Data-driven, continuous quality improvement including collection and monitoring of
238 standardized performance measures.
239 (e) Neuro-imaging services capability that is available twenty-four (24) hours a day,
240 seven (7) days a week, such that imaging shall be performed within twenty-five (25)
241 minutes following order entry. Such studies shall be reviewed by a physician with
242 appropriate expertise, such as a board-certified radiologist, board-certified neurologist, a
243 board-certified neurosurgeon, or residents who interpret such studies as part of their

244 training in an ACGME-approved radiology, neurology, or neurosurgery training program
245 within twenty (20) minutes of study completion.

246 (1) Neuro-imaging services shall, at a minimum, include computerized tomography
247 (CT) scanning or magnetic resonance imaging (MRI), as well as interpretation of the
248 imaging.

249 (2) In the event that tele-radiology is used in image interpretation, all staffing and staff
250 qualification requirements contained in this subchapter shall remain in effect and shall
251 be documented by the hospital.

252 (3) For the purpose of this subsection, a qualified radiologist shall be board-certified by
253 the American Board of Radiology or the American Osteopathic Board of Radiology.

254 (4) For the purpose of this subsection, a qualified neurologist shall be board-certified
255 by the American Board of Psychiatry and Neurology or the American Osteopathic Board
256 of Neurology and Psychiatry.

257 (5) For the purpose of this subsection, a qualified neurosurgeon shall be board-
258 certified by the American Board of Neurological Surgery.

259 (f) Laboratory services capability that is available twenty-four (24) hours a day, seven
260 (7) days a week, such that services may be performed within forty-five (45) minutes
261 following order entry.

262 (g) Neurosurgical services that are available, including operating room availability,
263 either directly or under agreement with a comprehensive or another primary stroke
264 center, within two (2) hours following admission of acute stroke patients to the primary
265 stroke center.

266 (h) Acute care rehabilitation services.

267 (i) Transfer arrangements with one or more higher level of care centers when
268 clinically warranted.

269 (j) There shall be a physician director of a primary stroke center, who may also serve
270 as a physician member of a stroke team, who is board-certified in neurology or
271 neurosurgery.

272 (k) At a minimum, an acute care stroke team shall consist of:

273 (1) a neurologist, neurosurgeon, interventional neuroradiologist, or emergency
274 physician who is board-certified or board-eligible in neurology, neurosurgery,

275 endovascular neurosurgical radiology, with experience and expertise dealing with
276 cerebral vascular disease; and
277 (2) a registered nurse, physician assistant or nurse practitioner who has demonstrated
278 competency, as determined by the physician director described in (k)(1) above, in
279 caring for acute stroke patients.

280 Note: Authority cited: Sections 1797.102, 1797.103, 1797.107, 1797.176, 1797.204
281 1797.220, 1797.250, 1797.254, 1798.150, and 1798.172, Health and Safety Code.
282 Reference: Sections 1797.104, 1797.176, and 1797.204, 1797.220, 1797.222,
283 1798.170, Health and Safety Code.

284 **§ 100270.223. Comprehensive Stroke Centers**

285 Hospitals designated as Comprehensive Stroke Centers by the local EMS agency shall
286 have the following minimum criteria in addition to the requirements for being Primary
287 Stroke Centers explained in this chapter.

288 (a) Neuro-endovascular diagnostic and therapeutic procedures available twenty-four
289 (24) hours a day, seven (7) days a week.

290 (b) Advanced imaging, including but not limited to, computed tomography (CT),
291 angiography, magnetic resonance imaging (MRI), and diffusion-weighted magnetic
292 resonance imaging, available twenty-four (24) hours a day, seven (7) days a week.

293 (c) Intensive care unit (ICU) beds with licensed independent practitioners with the
294 expertise and experience to provide neuro-critical care twenty-four (24) hours a day,
295 seven (7) days a week.

296 (d) Written policies and procedures for comprehensive stroke services that are
297 reviewed at least every two (2) years, revised as needed, and implemented.

298 (e) Data-driven, QI including collection and monitoring of standardized comprehensive
299 stroke center performance measures.

300 (f) Satisfy the following staff qualifications:

301 (1) a neurosurgical team capable of assessing and treating complex stroke and
302 stroke-like syndromes,

303 (2) a neuroradiologist with current Certificate of Added Qualifications in neuroradiology
304 on staff;

- 305 (3) a physician with neuro-interventional angiographic training and skills on staff as
306 deemed by the hospital's credentialing process.
- 307 (4) a physician with current Certificate of Added Qualifications in vascular neurology
308 on staff.
- 309 (5) a qualified neuroradiologist, board-certified by the American Board of Radiology or
310 the American Osteopathic Board of Radiology; and
- 311 (6) a qualified vascular neurologist, board-certified by the American Board of
312 Psychiatry and Neurology or the American Osteopathic Board of Neurology and
313 Psychiatry.
- 314 (g) In the event that tele-radiology is used, all staffing and staff qualification
315 requirements contained in § 100270.223. (f) shall remain in effect and shall be
316 documented by the hospital.
- 317 (h) Provide comprehensive rehabilitation services either on-site or by written transfer
318 agreement with another health care facility licensed to provide such services.
- 319 (i) Written transfer agreements with primary stroke centers in region to accept transfer
320 of patients with complex strokes when clinically warranted.
- 321 (j) Comprehensive Stroke Center shall at a minimum, provide guidance and
322 continuing medical education to hospitals designated as Primary Stroke Centers with
323 which they have transfer agreements.

324 Note: Authority cited: Sections 1797.103, 1797.107, 1797.176, 1797.204, 1797.220,
325 1798.150, and 1798.172, Health and Safety Code. Reference: Sections 1797.204,
326 1797.220, and 1797.222, Health and Safety Code.

327 **§ 100270.224. Acute Stroke Ready Hospitals (Satellite Stroke Centers)**

328 Acute Stroke Ready Hospitals (Satellite Stroke Centers) are able to provide the
329 minimum level of care for stroke patients in the emergency department, which are
330 paired with one or more hospitals with higher level of services. In these hospitals, the
331 necessary emergency department neurological expertise may be provided in person or
332 through telemedicine.

333 The local EMS agency is responsible for evaluation of Acute Stroke Ready Hospitals as
334 part of their Stroke Critical Care System, which includes assessment of the following
335 structural components:

336 (a) An acute stroke team available to see in person or via telemedicine a patient
337 identified as a potential acute stroke patient within thirty (30) minutes following the
338 patient's arrival at the hospital's emergency department.

339 (b) Written policies and procedures for emergency department stroke services that are
340 reviewed, revised as needed, and implemented at least every three (3) years.

341 (c) Emergency department policies and procedures shall include written protocols and
342 standardized orders for emergency care of stroke patients.

343 (d) Data-driven, QI including collection and monitoring of standardized performance
344 measures.

345 (e) Neuro-imaging services capability that is available twenty-four (24) hours a day,
346 seven (7) days a week, such that imaging shall be performed within sixty (60) minutes
347 following order entry. Such studies shall be reviewed by a physician with appropriate
348 expertise, such as a board-certified radiologist, board-certified neurologist, a board-
349 certified neurosurgeon, or residents who interpret such studies as part of their training in
350 an ACGME-approved radiology, neurology, or neurosurgery training program, within
351 forty-five (45) minutes of patient arrival at the emergency department.

352 (1) Neuro-imaging services shall, at a minimum, include computerized tomography
353 (CT) scanning or magnetic resonance imaging (MRI), as well as interpretation of the
354 imaging.

355 (2) In the event that tele-radiology is used in image interpretation, all staffing and staff
356 qualification requirements contained in this subchapter shall remain in effect and shall
357 be documented by the hospital.

358 (3) For the purpose of this subsection, a qualified radiologist shall be board-certified by
359 the American Board of Radiology or the American Osteopathic Board of Radiology.

360 (4) For the purpose of this subsection, a qualified neurologist shall be board-certified
361 by the American Board of Psychiatry and Neurology or the American Osteopathic Board
362 of Neurology and Psychiatry.

- 363 (5) For the purpose of this subsection, a qualified neurosurgeon shall be board-
364 certified by the American Board of Neurological Surgery.
- 365 (f) Laboratory services at a minimum, including blood testing, electrocardiography and
366 x-ray services capability, available twenty-four (24) hours a day, seven (7) days a week
367 and able to perform within sixty (60) minutes following order entry.
- 368 (g) Neurosurgical services that are available, including operating room availability,
369 either directly or under agreement with a Primary or Comprehensive Stroke Center,
370 within three (3) hours following admission of acute stroke patients to the Satellite Stroke
371 Center.
- 372 (h) Transfer arrangements with one or more primary or comprehensive stroke
373 center(s) that facilitate transfer of patients with strokes to the stroke center(s) for care
374 when clinically warranted.
- 375 (i) There shall be a director of the Satellite Stroke Center, who may also serve as a
376 member of a stroke team, who is a physician or advanced practice nurse who maintains
377 at least six (6) hours per year of educational time in cerebrovascular disease;
- 378 (j) Acute care stroke team for Satellite Stroke Center at a minimum shall consist of a
379 nurse and a physician with training and expertise in acute stroke care.
- 380 (k) Additional requirements may be included at the discretion of the local EMS agency
381 medical director.

382 Note: Authority cited: Sections 1797.103, 1797.107, 1797.176, 1797.204, 1797.220,
383 1798.150, and 1798.172, Health and Safety Code. Reference: Sections 1797.204,
384 1797.220, and 1797.222, Health and Safety Code.

385 **§ 100270.225. EMS Receiving Hospitals (Non-designated for Stroke Critical Care**
386 **Services)**

387 Hospitals that are not designated shall do the following at minimum, in cooperation with
388 Stroke Receiving Centers and the local EMS agency in their jurisdictions:

- 389 (a) Participate in the local EMS agency's QI system, including data submission as
390 determined by the local EMS agency medical director;
- 391 (b) Participate in the inter-facility transfer agreements to ensure access to the Stroke
392 Critical Care System for potential stroke patient.

393 Note: Authority cited: Sections 1797.88, 1797.103, 1797.107, 1797.176, 1797.220,
394 1798.100, 1798.150, and 1798.172, Health and Safety Code. Reference: Sections
395 1797.176, 1797.220, and 1798.150, 1798.170, Health and Safety Code.

396

397 **ARTICLE 5. DATA MANAGEMENT, QUALITY IMPROVEMENT AND EVALUATION**

398 **§ 100270.226. Data Management**

399 (a) The local EMS agency shall implement a standardized data collection and
400 reporting process for Stroke Critical Care Systems.

401 (1) The system shall include the collection of both prehospital and hospital patient care
402 data, as determined by the local EMS agency.

403 (2) The prehospital and hospital stroke patient care elements selected by the local
404 EMS agency shall be compliant with the most current version of the California EMS
405 Information Systems (CEMSIS) data base, the National EMS Information System
406 (NEMSIS) and national standards published by the U.S. Centers for Disease Control
407 and Prevention, Paul Coverdell National Acute Stroke Program Resource Guide, dated
408 October 24, 2016.

409 (3) Stroke data shall be integrated into the local EMS agency and the EMS Authority
410 data management system through data submission on no less than a quarterly basis.

411 (4) All hospitals that receive stroke patients shall participate in the local EMS agency
412 data collection process in accordance with local EMS agency policies and procedures.

413 Note: Authority cited: Sections. 1797.102, 1797.103, 1797.107, 1797.176, 1797.204,
414 1797.220, 1797.227, 1798.150, and 1798.172. Health and Safety Code. Reference:
415 Section 1797.220, 1797.222, 1797.204.

416 **§ 100270.227. Quality Improvement Process**

417 Each Stroke Critical Care System shall have a quality improvement process to include
418 structure, process, and outcome evaluations which focus on improvement efforts to
419 identify root causes of problems, intervene to reduce or eliminate these causes, and
420 take steps to correct the process. This process shall include, at a minimum:

421 (a) a detailed audit of all stroke-related deaths, major complications, and transfers;

- 422 (b) a multidisciplinary stroke QI Committee including both pre-hospital and hospital
423 members;
424 (c) participation in the stroke data management system;
425 (d) compliance with the California Evidence Code, Section 1157.7 to ensure
426 confidentiality, and a disclosure-protected review of selected stroke cases.

427 Note: Authority cited: Sections 1797.103, 1797.107, 1797.176, 1797.204, 1797.220, and
428 1798.150, Health and Safety Code. Reference: Sections 1797.176, 1797.204,
429 1797.220, and 1798.150, Health and Safety Code.

430

431 **§ 100270.228. Stroke Critical Care System Evaluation**

432 (a) The local EMS agency is responsible for on-going performance evaluation of the
433 local or regional Stroke Critical Care System.

434 (b) The local EMS agency shall be responsible for the development of a quality
435 improvement process pursuant to Section 100270.227.

436 (c) The local EMS agency shall be responsible for ensuring that designated Stroke
437 Centers and other hospitals that treat stroke patients participate in the quality
438 improvement process contained in Section 100270.227, as well as prehospital providers
439 involved in the Stroke Critical Care System.

440 Note: Authority cited: Sections 1797.102, 1797.103, 1797.107, 1797.176, 1797.204,
441 1797.220, 1797.250, 1797.254, 1798.150, and 1798.172. Health and Safety Code.
442 Reference: Section 1797.104, 1797.176, 1797.204, 1797.220, 1797.222, 1798.170
443 Health and Safety Code.