

PROTOCOL TITLE: Running cutaneous suture spacing during linear wound closures and the effect on wound cosmesis: a randomized evaluator blinded split wound comparative effectiveness trial

1) Protocol Title

Running cutaneous suture spacing during linear wound closures and the effect on wound cosmesis: a randomized evaluator blinded split wound comparative effectiveness trial

2) Author of Protocol

UC Davis Researcher

Researcher from other institution

Private Sponsor

Cooperative Group

Other: \_\_\_\_\_

3) IRB Review History

N/A

4) Objectives

The purpose of this study is to determine whether the spacing between cutaneous running sutures during repair of linear cutaneous surgery wounds on the trunk or extremities affects scar cosmesis. We will use a split wound model, where half of the wound is repaired with sutures spaced two millimeters apart and the other half is repaired with sutures spaced five millimeters apart. Three-months post-surgery, the scar will be measured via the patient observer scar assessment scale, a validated scar instrument. The scar width, and adverse events will also be recorded.

5) Background

Sutures are the standard of care in repairing cutaneous wounds. The majority of surgical reconstructions following a Mohs micrographic surgery and standard surgical excisions require two layers of sutures: a deep (subcutaneous) layer and a top (cutaneous) layer. The deep layer dissolves naturally whereas the top layer may necessitate removal if non-absorbable sutures are used.

This study aims to investigate whether the spacing of the running cutaneous sutures affects surgical wound cosmesis on the trunk and extremities. In other words, we would like to determine which of the following yields a more cosmetically appealing scar: many closely approximated sutures or fewer, more widely spaced sutures. We wish to compare the effects of two versus five millimeter spacing between sutures. It is possible that fewer, more widely spaced sutures may leave more open space in the wound, leaving more tension to pull on those few sutures, possibly encouraging the wound to dehisce and make it harder to approximate the wound edges yielding a less cosmetically appealing scar

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42 compared to placing many closely approximated sutures which would  
43 decrease the tension and likely better approximate the wound edges  
44 yielding a more cosmetically appealing scar. On the other hand, we may  
45 find that suture spacing has no effect on wound cosmesis and that placing  
46 fewer, more widely spaced sutures is much more time efficient. We may  
47 also find that the effect of suture spacing on wound cosmesis is dependent  
48 on wound tension. For example, perhaps the suture spacing would have no  
49 effect on the cosmesis of a wound under no tension, however, for a wound  
50 under high tension, it is possible that many closely approximated sutures  
51 would yield better cosmetic results for the reasons listed above.

52

53 After completing a thorough literature search, there appears to be no data,  
54 recommendations, or studies published on the affect of cutaneous suture  
55 spacing on wound cosmesis.

56

## 57 **6) Inclusion and Exclusion Criteria**

58 *Describe how your individuals will be screened for eligibility.*

59 All patients scheduled for cutaneous surgical procedures with one of the  
60 study investigators at the UC Davis Dermatology Clinic will be screened  
61 for eligibility.

62 *Describe the criteria that define who will be included or excluded in your  
63 final study sample.*

### 64 **Inclusion Criteria:**

- 65 • 18 years of age or older
- 66 • Able to give informed consent themselves
- 67 • Patient scheduled for cutaneous surgical procedure on the trunk  
68 and extremities with predicted primary closure
- 69 • Willing to return for follow up visit.

### 70 **Exclusion Criteria:**

- 71 • Mentally handicapped
- 72 • Unable to understand written and oral English
- 73 • Incarceration
- 74 • Under 18 years of age
- 75 • Pregnant Women
- 76 • Wounds with predicted closure length less than 3 cm

77 *Indicate specifically whether you will include or exclude each of the*  
78 *following special populations: (You may not include members of the above*

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79 *populations as subjects in your research unless you indicate this in your*  
80 *inclusion criteria.)*

- 81 • *Adults unable to consent*
- 82 • *Individuals who are not yet adults (infants, children, teenagers)*
- 83 • *Pregnant women*
- 84 • *Prisoners*

85 None of these special populations will be included

## 86 **7) Number of Subjects**

87 *a) Study- Wide:*

88 This is a single center study; see below.

89 *b) Local:*

90 *Indicate the total number of subjects to be enrolled locally.*

91 We will enroll 50 patients locally in this single center study.

92

## 93 **8) Recruitment Methods**

94 *a) Study-Wide:*

95 NA

96 *Describe when, where, and how potential subjects will be recruited.*

97 Patients will be recruited from the investigators surgical practice at the  
98 time of the procedure at the University of California, Dermatology Clinic

99 *Describe the methods that will be used to identify potential subjects.*

100 The surgical schedule will be examined to identify potential study  
101 subjects. Faculty will be reminded about the study through a flier posted in  
102 the doctors charting lounges (Attached).

103 *Describe materials that will be used to recruit subjects. (Attach copies of*  
104 *these documents with the application. For advertisements, attach the final*  
105 *copy of printed advertisements. When advertisements are taped for*  
106 *broadcast, attach the final audio/video tape. You may submit the wording*  
107 *of the advertisement prior to taping to preclude re-taping because of*  
108 *inappropriate wording, provided the IRB reviews the final audio/video*  
109 *tape.)*

110 *b) HIPAA:*

111 *If the research procedures include accessing personal health information*  
112 *(PHI) to identify prospective subjects without HIPAA Authorization please*  
113 *describe:*

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- 114 • *Why getting HIPAA Authorization is not practicable.*
  - 115 • *Why the research can't be conducted without access to this PHI.*
  - 116 • *Your plan to protect the PHI from improper use and disclosure,*
  - 117 *including the plan to destroy the PHI at the earliest opportunity.*
  - 118 • *Assurance that the protected health information will not be*
  - 119 *inappropriately reused or disclosed to any other person or entity.*
  - 120 • *Description of the protected health information which will be*
  - 121 *accessed*
- 122 The patients name, age, gender, medical record number, operative and  
123 follow up images and phone number will be recorded in the Redcap  
124 data system to allow study personnel to contact patients to arrange  
125 their follow up visits. Information will be deleted from the redcap  
126 system after 3 years. HIPPA authorization will be obtained from each  
127 patient.  
128

## 129 **9) Compensation to the Subjects**

130  
131 *If the subjects will be compensated for their participation within the study*  
132 *describe the amount and type of compensation that will be paid to subjects.*  
133 *Clarify how compensation will be pro-rated if the subjects does not*  
134 *complete all study visits.*  
135 No compensation provided to study subjects.  
136

## 137 **10) Study Timelines**

- 138 *Describe:*
- 139 • *The duration of an individual subject's participation in the study.*
- 140 3 months
- 141 • *The duration anticipated to enroll all study subjects.*
- 142 3 months
- 143 • *The estimated date for the investigators to complete this study*
  - 144 *(complete primary analyses)*
- 145 12 months

## 146 **11) Study Endpoints**

147 *Describe the primary and secondary study endpoints.*  
148 The primary endpoint will be the score of two blinded reviewers using the  
149 patient observer scar assessment score at a three-month assessment visit.

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150 The secondary endpoints will include the width of the scar 1 cm from  
151 midline on each side at the follow-up visit and any complications from the  
152 treatment.

153

154 *Describe any primary or secondary safety endpoints.*

155 Cutaneous surgery is a very low risk procedure. No deaths have ever been  
156 observed in our department, minor infections occur at rates of < 3% and  
157 bleeding and dehiscence at much lower rates still. All adverse events will  
158 be recorded, and monitored. Serious adverse events will be reported,  
159 though none are expected.

## 160 **12) Procedures Involved**

161 a) *Describe and explain the study design.*

162 This is a single center, randomized, evaluator blind, split wound study.

163

164 *Provide a description of all research procedures being performed and*  
165 *when they are performed, including procedures being performed to*  
166 *monitor subjects for safety or minimize risks.*

167

168 After screening and informed consent, demographic data will be collected  
169 including date of birth, race, gender and medical record number. This will  
170 be collected in the redcap database.

171 The patient's wound will be labeled A if it is on the left or superior side of  
172 the investigator and B if it is on the right or inferior side. A predetermined,  
173 concealed randomization number will be obtained from the RedCap  
174 randomization module, which will specify how side A is to be treated.  
175 Side B will be treated the opposite way as A. Side A will always be closed  
176 first. The side assigned to be closed with sutures spaced two millimeters  
177 apart will be treated in a simple, running cutaneous suture pattern. Sutures  
178 spaced five millimeters apart will be used to treat the opposite side in a  
179 simple, running cutaneous suture pattern. Prior to placement of the  
180 cutaneous sutures, both sides of the wound will be sutured together with a  
181 subcutaneous (bottom) layer of stitches, as is the standard of care. A  
182 digital image of the wound before and after the top stitches are placed will  
183 be obtained; these may be used in scientific talks and/or for publication  
184 purposes. Treatment assignment, wound length, demographic data, and  
185 digital images will be recorded within the redcap database.

186 Follow-up assessment will be scheduled for three months following the  
187 procedure, with a one-month window before or after that time if the  
188 patient cannot return at precisely three months.

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189 At the follow-up visit, two blinded observers will record their scores  
190 independently using the physician observer scar assessment score  
191 instrument (POSAS). The width of the scar on both sides will also be  
192 measured and recorded 1 cm from midline on both sides of the scar. If one  
193 half of the scar has more associated erythema, that will be recorded. The  
194 patient part of the instrument will be independently recorded. This data  
195 will be recorded in the redcap database. Digital images will then be  
196 obtained again, which may be used for scientific meeting presentation  
197 and/or publication purposes.

198

199 *Describe:*

- 200
- *Procedures performed to lessen the probability or magnitude of risks.*

201 All adverse events will be monitored and recorded. Safety precautions will  
202 be the same as for all patients undergoing cutaneous procedures. Patients  
203 will be given instructions to call in the event of any complications such as  
204 bleeding, infection, pain or any concerns. An on call resident will be  
205 available by phone at all hours, every day of the week. Instructions for  
206 contacting the on call resident will be given in written form as well.

- 207
- *All drugs and devices used in the research and the purpose of their use, and their regulatory approval status.*
- 208

209 The type of suture device used on the deep portion of the wound will be at  
210 the discretion of the investigator. The type used will be either vicryl,  
211 monocryl, or PDS as these are all standard of care.

- 212
- *The source records that will be used to collect data about subjects. (Attach all surveys, scripts, and data collection forms.)*
- 213

214 We will collect all data, demographic and scientific, in the redcap data  
215 collection system. The patient will be queried for demographic data  
216 verbally or the patient chart will be examined within the EMR to obtain  
217 the date of birth, race, gender, date of surgery, date of follow-up, name,  
218 medical record number, and surgery location. All other data will be  
219 recorded from assessments during study evaluation.

- 220
- *What data will be collected including long-term follow-up.*

221 POSAS scores, width of the scar 1 cm from midline on each side, digital  
222 images, occurrence of any complications including: spitting sutures,  
223 dehiscence, infection, necrosis, bleeding, and hematoma.

- 224
- *Describe how much blood is being drawn and how often*

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225 NA

226 b) *Humanitarian Use Device (HUD)*

227 *For HUD uses provide a description of the device, a summary of how you*  
228 *propose to use the device, including a description of any screening*  
229 *procedures, the HUD procedure, and any patient follow-up visits, tests or*  
230 *procedures.*

231 NA

### 232 **13) Data and Specimen Banking**

233 *If data or specimens will be banked for future use, describe where the*  
234 *specimens will be stored, how long they will be stored, how the specimens*  
235 *will be accessed, and who will have access to the specimens.*

236 NA

237 *List the data to be stored or associated with each specimen.*

238 NA

239 *Describe the procedures to release data or specimens, including: the*  
240 *process to request a release, approvals required for release, who can*  
241 *obtain data or specimens, and the data to be provided with specimens.*

242 NA

### 243 **14) Data Management and Confidentiality**

244 *Describe the data analysis plan, including any statistical procedures.*

245 Paired t-test will be performed for POSAS scores and scar width. For  
246 analysis of complications Fisher's exact test will be used.

247 *Provide a power analysis.*

248 Using g\*power statistical software, we calculated we would need to enroll  
249 50 patients using a split scar model with a mean POSAS score of 12 a  
250 minimal meaningful clinical difference of 3 points on the 60 point POSAS  
251 scale with the following assumptions: alpha 0.05, beta 0.10, standard  
252 deviation 6 (based upon wound eversion study results from trial completed  
253 by us last year), dropout rate 15%.

254 *Describe the steps that will be taken secure the data (e.g., training,*  
255 *authorization of access, password protection, encryption, physical*  
256 *controls, certificates of confidentiality, and separation of identifiers and*  
257 *data) during storage, use, and transmission.*

258 Redcap database will be used to record all data. It is maintained by the  
259 University of California, Davis and encrypted. Passwords for access will  
260 not be shared. For analysis, data will only be downloaded without personal  
261 identifiers.

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262 *Describe any procedures that will be used for quality control of collected*  
263 *data.*

264 Questions in the data collection forms will have warning text that will  
265 appear if users attempt to close them without recording the required data.

266 a.) *Study-Wide:*

267 *Describe how data and specimens will be handled study-wide:*

268 NA. Study is single center only.

269 • *What information will be included in that data or associated with the*  
270 *specimens?*

271 • *Where and how data or specimens will be stored?*

272 • *How long the data or specimens will be stored?*

273 • *Who will have access to the data or specimens?*

274 • *Who is responsible for receipt or transmission of the data or*  
275 *specimens?*

276 • *How data and specimens will be transported?*

277 b.) *Local*

278 *Describe the local procedures for maintenance of confidentiality.*

279 • *Where and how data or specimens will be stored locally?*

280 Consent forms will be stored in a locked cabinet. All other study  
281 related information will be recorded in the redcap data system.

282 • *How long the data or specimens will be stored locally?*

283 3 years.

284 • *Who will have access to the data or specimens locally?*

285 Only those listed in the study protocol. A statistician will view de-  
286 identified data after collection for analysis purposes.

287 • *Who is responsible for receipt or transmission of the data or*  
288 *specimens locally?*

289 The principal investigator; Daniel Eisen

290 • *How data and specimens will be transported locally?*

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291 Data will only be downloaded onto encrypted computers directly from the  
292 redcap database and only when necessary for study administration or data  
293 analysis.

294

## 295 **15) Provisions to Monitor the Data to Ensure the Safety of Subjects**

296 *This is required when research involves more than Minimal Risk to*  
297 *subjects.*

298 *The plan might include establishing a data monitoring committee and a*  
299 *plan for reporting data monitoring committee findings to the IRB and the*  
300 *sponsor.*

301 *Describe:*

- 302
  - *The plan to periodically evaluate the data collected regarding both*  
303 *harms and benefits to determine whether subjects remain safe.*

304 Risks from this study are minimal. All adverse events will be monitored  
305 and recorded. Study personnel will immediately share all adverse events  
306 with the principal investigator.

- 307
  - *What data are reviewed, including safety data, untoward events, and*  
308 *efficacy data.*

309 Only safety data will be reviewed. Efficacy data will be determined after  
310 study follow up is completed since this study concerns non-life threatening  
311 outcomes.

- 312
  - *How the safety information will be collected (e.g., with case report*  
313 *forms, at study visits, by telephone calls with participants).*

314 Safety information will be collected within the redcap database.

- 315
  - *The frequency of data collection, including when safety data collection*  
316 *starts.*

317 Safety data collection begins immediately following the procedure.  
318 Patients will be instructed to call immediately with any complications  
319 from their procedures. Patients will also be queried at follow up (3  
320 months) regarding complications in case they fail to call and are treated by  
321 an outside physician.

- 322
  - *Who will review the data.*

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323 The principal investigator and study personnel will review the data.

324 • *The frequency or periodicity of review of cumulative data.*

325 The study investigator will review safety data weekly after enrollment.

326 • *The statistical tests for analyzing the safety data to determine whether*  
327 *harm is occurring.*

328 Both interventions in this study are relatively low risk and have been used  
329 in surgery for decades. Serious adverse events are not expected. Typically  
330 if one occurs it affects both sides of the wound in the form of infection,  
331 bleeding, or dehiscence. If the adverse event is localizable to a single site  
332 it will be recorded as such and the results analyzed after study completion.

333 • *Any conditions that trigger an immediate suspension of the research.*

334 Any serious complication, such as hospital admission for treatment related  
335 to the procedure will trigger cessation of recruitment, until study personnel  
336 meet and determine it is safe to continue enrolling patients.

## 337 **16) Withdrawal of Subjects**

338 *Describe anticipated circumstances under which subjects will be*  
339 *withdrawn from the research without their consent.*

340 None

341 *Describe any procedures for orderly termination.*

342 For subjects that do not want to continue to participate in the study, then  
343 they may do so by informing us by phone or in person or by email. There  
344 is no risk to early study termination.

345 *Describe procedures that will be followed when subjects withdraw from*  
346 *the research, including partial withdrawal from procedures with*  
347 *continued data collection.*

348 If patients change their mind about participation prior to or during their  
349 procedure the surgeon will use his or her judgment with regarding the  
350 spacing of the cutaneous sutures to close the deep layer of skin. No data  
351 collection will occur in the future.

## 352 **17) Risks to Subjects**

353 *List the reasonably foreseeable risks, discomforts, hazards, or*  
354 *inconveniences to the subjects related the subjects' participation in the*  
355 *research. Include as may be useful for the IRB's consideration, describe*  
356 *the probability, magnitude, duration, and reversibility of the risks.*  
357 *Consider physical, psychological, social, legal, and economic risks.*

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358 The primary risk of participating is that one side of the wound may look  
359 different than the other. The author has thus far conducted 5 split scar  
360 studies and none of the participants from these trials has requested  
361 revision of the scar based upon differences in appearance of the two  
362 halves. Typically, differences are not extreme in individuals. Other risks  
363 are the same for every cutaneous surgical procedure regardless of study  
364 enrollment: infection, bleeding, dehiscence, 100% chance of scar. Risks of  
365 bleeding and infection are less than 3% in our facility and typically minor  
366 in nature.

367 *If applicable, indicate which procedures may have risks to the subjects*  
368 *that are currently unforeseeable.*

369 The study intervention is commonly performed. Though unforeseeable  
370 risks are always possible, they are not probable here.

371 *If applicable, indicate which procedures may have risks to an embryo or*  
372 *fetus should the subject be or become pregnant.*

373 NA

374 *If applicable, describe risks to others who are not subjects.*

375 NA

#### 376 **18) Potential Benefits to Subjects**

377 *Describe the potential benefits that individual subjects may experience*  
378 *from taking part in the research. Include as may be useful for the IRB's*  
379 *consideration, the probability, magnitude, and duration of the potential*  
380 *benefits.*

381 *Indicate if there is no direct benefit. Do not include benefits to society or*  
382 *others.*

383 No direct benefit to individual subjects.

#### 384 **19) Vulnerable Populations**

385 *If the research involves individuals who are vulnerable to coercion or*  
386 *undue influence, describe additional safeguards included to protect their*  
387 *rights and welfare.*

388 NA

#### 389 **20) Multi-Site Research**

390 NA

#### 391 **21) Community-Based Participatory Research**

392 NA

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393 **22) Sharing of Results with Subjects**

394 Results of the study participants own outcome measurements will be  
395 shared with patient verbally if they request.

396 **23) Setting**

397 Patients will be recruited from the University of California, , Dermatology  
398 Clinic cutaneous surgery practice, 3301 C St, #1300, Sacramento, CA  
399 95816.

400 Research procedures will be performed at the University of California,  
401 Davis Department of Dermatology cutaneous surgery practice. 3301 C St,  
402 #1400, Sacramento, CA 95816.

403 **24) Resources Available**

404 Principle Investigator- Board Certified Dermatologist with fellowship  
405 training in cutaneous surgery. Will recruit, enroll, evaluate study subjects  
406 and oversee study.

407

408 Co-Investigator- Procedural Dermatology Fellow: will recruit, enroll, and  
409 evaluate study subjects.

410

411 Board certified dermatologists with fellowship training in cutaneous  
412 surgery: will recruit, enroll, and evaluate study subjects.

413

414 Board certified dermatologists: will recruit, enroll, and evaluate study  
415 subjects.

416 Dermatology residents: will recruit, enroll, and evaluate study subjects.

417

418 Study coordinator: will correspond with IRB, perform audits of consent  
419 forms, and handle administrative requirements of study

420

421 Junior Specialist: will correspond with IRB and handle administrative  
422 requirements of study

423

424 Patient Record Abstractor: perform research study maintenance in Epic  
425 and scanning consent forms to Epic.

426

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427 Approximately 30 patients undergo cutaneous surgeries every week in our  
428 center. We should easily be able to recruit our required number within 3  
429 months.

430  
431 The principle investigator and procedural dermatology fellow will recruit  
432 and treat patients continuously five days a week.

433  
434 Outpatient, dermatologic surgery facility with 6 procedure rooms, and  
435 more than a dozen nursing staff.

436  
437 No psychological support is likely necessary for those undergoing the  
438 procedure. Medical help is available in the event of a complication from  
439 7:30 AM- 5 PM Monday-Friday. An on call resident is available for all  
440 times the clinic is not available and patients may also visit the Emergency  
441 Department.

442  
443 A pre-enrollment meeting will occur where the protocol is carefully  
444 explained. We will print algorithms for study personnel. They may  
445 additionally refer to redcap database where the questions will guide them  
446 through data capture and the procedure. We will also have a lab practicing  
447 the procedure on a simulated patient mannequin designed for teaching  
448 cutaneous surgical procedures.

#### 449 **25) Prior Approvals**

450 NA

#### 451 **26) Provisions to Protect the Privacy Interests of Subjects**

452 Only study personnel and nurses normally present during cutaneous  
453 procedures and follow-ups will be present. Personal information will be  
454 obtained just once at study recruitment. It will not be required at follow  
455 up.

456 Examination of the wound will not differ significantly in practice from  
457 standard medical care, during which a faculty member and resident and  
458 nurse typically participate in the patients care. In this situation, the number  
459 of interactions will be the same or less, since only two study investigators  
460 will be required. Medical students will not participate in study patient  
461 follow-up evaluation.

462 *Indicate how the research team is permitted to access any sources of*  
463 *information about the subjects.*

464 Access to study information will be permitted only for data entry and for  
465 study monitoring. Study staff will be requested to only access this  
466 information for these purposes only.

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467 **27) Compensation for Research-Related Injury**

468 *If the research involves more than Minimal Risk to subjects, describe the*  
469 *available compensation in the event of research related injury.*

470 No compensation will be provided.

471 *Economic Burden to Subjects*

472 No additional cost to participate in the study will be incurred. *Standard of*  
473 *care and other routine costs will be billed to the patient or the patient's*  
474 *insurance carrier, Medicare, or Medi-cal, where appropriate. Only the*  
475 *costs of research and experimental procedures will be paid by the*  
476 *sponsor/department*

477 **28) Consent Process**

478 We will obtain written informed consent from all subjects. Study  
479 personnel will be obtaining consent in person at the Dermatology clinic at  
480 3301 C St, #1300, Sacramento, CA 95816. Patients will be given as much  
481 time as they like to consider enrolling.

482 We will review the consent form binder once a month to ascertain  
483 signatures on the consent and HIPAA forms. The study coordinator, Lam  
484 Nguyen will review the binder independently at routine intervals.

485 Our experience from past studies indicates it takes less than 5 minutes to  
486 explain the study. The subject will be allowed to take as much time as they  
487 like to read the forms, ask questions or consider participation.

488 We will inform the subject that enrollment is optional and that we will  
489 treat them without bias and with all the quality that they should normally  
490 expect outside of study participation.

491 Subjects will be asked if they understand the study and if they have any  
492 questions.

493 We will not enroll anyone who does not understand written or verbal  
494 English. The vast majority of our cutaneous surgical population is English  
495 speaking.

496

497 *Waiver or Alteration of the Consent Process (consent will not be*  
498 *obtained, required information will not be disclosed, or the research*  
499 *involves deception)*

500 NA

501 *Subjects who are not yet adults (infants, children, teenagers)*

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502 NA

503 ***Cognitively Impaired Adults***

504 NA

505 ***Adults Unable to Consent***

506 NA

507 ***Adults Unable to Consent***

508 NA

509 *For HUD uses provide a description of how the patient will be informed of*  
510 *the potential risks and benefits of the HUD and any procedures associated*  
511 *with its use.*

512 **29) Process to Document Consent in Writing**

513 We will follow “*SOP: Written Documentation of Consent (HRP-091)*”

514

515 **30) Drugs or Devices**

516 NA

517

518

519 *References*

520 After completing a literature search, it has been determined that there are no publications,  
521 recommendations, or studies investigating the relationship between running  
522 cutaneous suture spacing and wound cosmesis.

523

524