

**CONSENT FORM**

**GENESIS –Generating evidence about transient, stereotypical and non-epileptic symptoms in the context of chronic subdural hematoma**

**September 2020**

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## INFORMATION AND CONSENT FORM FOR RESEARCH

**Project title :** GENESIS – Generating evidence about transient, stereotypical and non-epileptic symptoms in the context of chronic subdural hematoma

**Project number :** MP-31-2021-3687

**Project funding :** Neurosurgery and neurology departments, Université de Sherbrooke

**Principal investigator :** ... - Department of Neurosurgery

**Associate researchers :** ... - Department of Neurology.  
... - Department of Neurology.  
... - Department of Neurology.

<b>Contact information</b>
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...

We are asking for your participation in a research project because you have a diagnosis of chronic subdural hematoma with neurological symptoms. However, before agreeing to participate in this project, please take the time to read, understand and carefully consider the following information. If you agree to participate in the research project, you will need to sign the consent form at the end of this document and we will provide you with a copy for your records.

This information and consent form explains the purpose, procedures, risks and disadvantages as well as the advantages of this research project. It may contain words that you don't understand. We invite you to ask all necessary questions.

### NATURE AND OBJECTIVES OF THE RESEARCH PROJECT

Transient neurological symptoms are often associated with epilepsy, even when tests are negative. We already know that patients diagnosed with chronic subdural hematoma and transient neurological symptoms do not respond as well to standard treatments for epilepsy (antiepileptics). We believe that many of these patients would rather have a cause other than epilepsy to explain these neurological symptoms. These patients may respond better to Topiramate (a less commonly used epilepsy drug). The objective of this study is therefore to compare the efficacy of Topiramate versus Levetiracetam in resolving transient neurological symptoms.

For this study, we calculated that it would be necessary to recruit a total of 56 patients. Most will be recruited at the CHUS. Depending on the speed of recruitment, other centers may be included in order to complete the entire recruitment.

92

## 93 **PROGRESS OF THE RESEARCH PROJECT**

94 The total duration of the participant's involvement is 6 months. If you agree to participate  
95 in the project, you will have to attend a selection visit and two medical follow-ups (at 2  
96 months and 4 months), one in neurology and one in neurosurgery. It should be noted  
97 that these follow-ups would be necessary, even without participation in the research  
98 project. In addition, two telephone follow-ups (at 2 weeks and 6 months) should be  
99 carried out with a member of the research team (doctor or resident). These can be done  
100 at a time chosen by the participant.

101

### 102 **During hospitalization**

#### 103 **1) Selection visit :**

104 During this visit, which lasts approximately 1 hour, we will complete a detailed  
105 questionnaire of your medical history which will determine whether you are eligible for  
106 the project. The person responsible for the research project will collect basic medical  
107 data regarding your medical history as well as the current episode for which you are  
108 hospitalized. You will not receive any study medication during this time.

109

#### 110 **2) Beginning of treatment :**

111 If the completed questionnaire indicates that you are still eligible, you will be assigned at  
112 random (like tossing a coin) to one of the following groups:

113 **Group 1** : Usual treatment (Levetiracetam)

114 **Group 2** : Treatment less often used (Topiramate)

115

#### 116 **3) Rest of hospitalization :**

117 During the remainder of your current hospitalization, your symptoms will be monitored.  
118 In addition to the diagnostic EEG (electroencephalogram - recording of your brain  
119 activity), two other EEGs will be performed, spaced 24 hours apart, unless one shows  
120 epilepsy, in which case a second EEG is no longer necessary. Also, if needed,  
121 depending on your doctor, if the EEGs are all negative, an MRI (magnetic resonance  
122 imaging) of your brain may be done to rule out a cause for your neurological symptoms  
123 other than your intracranial bleeding.

124

### 125 **After hospitalization :**

#### 126 **1) Visites de suivi :**

127 There will therefore be two clinic visits (one with a neurologist and the other with a  
128 neurosurgeon), which will be carried out at 2 months and 4 months following your  
129 hospitalization. There will also be two telephone follow-ups at 2 weeks and 6 months  
130 following your hospitalization.

131 The reason for these visits is to ensure the effectiveness of the treatment used, and if  
132 this is not the case, to adjust the medication. It will also make sure that there are no side  
133 effects with the drug, and if they are found, the dose of the drug may be reduced or  
134 stopped. The study will be completed after 6 months. Subsequently, if you wish to  
135 continue the medication (being effective and well tolerated), this can be done and usual  
136 follow-up will follow. The medication may also be changed or stopped.

137

138 **Tests and procedures :**

139 Here is the description of the different tests and procedures that will be carried out  
140 during your participation in the project.

- 141 • Medical history
- 142 • Weight and size
- 143 • Measurement of your blood pressure
- 144 • Blood test
- 145 • Questionnaires: average duration of 30 minutes (during the initial visit and clinical  
146 and telephone follow-ups)
  - 147 ○ These include questions regarding recurrence of neurological symptoms  
148 as well as their descriptions. They also include questions about the  
149 tolerability of the treatment, as well as the appearance of possible side  
150 effects.
- 151 • Electrocorticography: suggested assessment for patients requiring surgery. This  
152 optional participation is explained in the appendix
- 153 • EEG: two more brain recordings will be made. These aim to improve the ability to  
154 diagnose epilepsy. They will be carried out during your hospitalization. They will  
155 be separated by 24 hours and will last 20 minutes each.
- 156 • MRI: If relevant, according to the attending physician, a magnetic resonance  
157 imaging of the head could be performed if all previous examinations are normal,  
158 in order to rule out a cause other than your bleeding for the neurological  
159 symptoms. This examination could lead to a diagnosis which could exclude you  
160 from the research project. Indeed, if an additional cause (such as a tumor)  
161 ultimately explains the neurological symptoms, a different treatment should then  
162 be instituted and the study would no longer be justified.

163  
164 Your medical file will be consulted throughout the research project by the researcher  
165 and his research team.

166  
167 **PARTICIPANT'S COLLABORATION**

- 168 • Avoid participating in several projects simultaneously.
- 169 • Keep medicines out of the reach of children.
- 170 • Carry the identification card we gave you at all times.
- 171 • Observe the warnings regarding co-medication and declare all drugs or natural  
172 products used.
- 173 • Discuss with a member of the research team before the change or addition of  
174 another antiepileptic by a physician not collaborating on the project.

175  
176 **RISKS THAT MAY ARISE FROM YOUR PARTICIPATION IN THE RESEARCH**  
177 **PROJECT**

178 Possible side effects of both treatments. Note that they are all reversible upon  
179 discontinuation of the relevant treatment except for glaucoma.

- 180 • Dizziness (4-29%)
- 181 • Anxiety (9-18%)
- 182 • Fatigue (9-16%)

- 183 • Weight loss or decreased appetite (4-20%)
- 184 • Headache (15%)
- 185 • Sinus infection (7-13%)
- 186 • Abdominal pain (6-10%)
- 187 • Nausea and vomiting (6-10%)
- 188 • Increased blood pressure (10%, usually more in children)
- 189 • Diarrhea (6%)
- 190 • Rash (1-4%)
- 191 • Joint pain (3%)
- 192 • Gait disorder, loss of balance (3%)
- 193 • Behavior changes (2-3%, irritability, aggression, agitation, emotional lability)
- 194 • Numbness (2%)
- 195 • Confusion (2%)
- 196 • Psychosis or depression (2%, more severe: drug discontinuation required)
- 197 • Gastroesophageal reflux disease (1-2%)
- 198 • Urinary tract infection (1%)
- 199 • Fever (1%)
- 200 • Memory problem (1%)
- 201 • Hair loss (1%, during long term treatment)
- 202 • Glaucoma (<1%, condition causing vision loss which may be irreversible, found
- 203 when taking long-term treatment)
- 204 • Kidney stones (<1%, more serious: discontinuation of the treatment in question)

## 205 **RISKS RELATED TO PROCEDURES**

### 206 **Blood samples :**

207 The risks associated with taking blood samples are: slight pain, dizziness, fainting,  
208 bruising, bleeding, and in rare cases, blood clots and infection.

### 209 **EEG (Electroenceelography) :**

210 The risks associated with this examination are as follows: discomfort, slight pain when  
211 installing the electrodes.

### 212 **MRI (brain magnetic reasonance) :**

213 The risks associated with this examination are as follows: discomfort during the  
214 examination (related to immobilization, confined space, noise), fear and associated  
215 symptoms if claustrophobia (fear of small places).

## 216 **RISKS ASSOCIATED WITH PREGNANCY**

217 Your participation in this research project may involve risks, known or not, for pregnant  
218 women, embryos, fetuses or breast-fed infants. This is why pregnant or breastfeeding  
219 women cannot participate in this project. Women of childbearing age (under 50) will  
220 therefore need to take a pregnancy test.

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228 **CASUAL DISCOVERIES**

229 It is important to note that the images and data collected during the study are not  
230 subjected to clinical analysis or examined for abnormalities. Therefore, you must not  
231 consent to participate in this research project in order to have a screening test.

232  
233 However, there is always the possibility that the images show a discovery with the  
234 potential for clinical impact. In this case, we will refer you to a specialist doctor who will  
235 order the necessary diagnostic test and meet with you to discuss the results. These  
236 results will appear in your medical file. The medical file can be viewed with your  
237 permission by an insurer when applying for insurance.

238  
239 **DISADVANTAGES THAT MAY RESULT FROM YOUR PARTICIPATION IN THE**  
240 **RESEARCH PROJECT**

241 There may be some disadvantages to taking anti-epileptics. It is still necessary to  
242 understand that even without participation in the study, a treatment with similar side  
243 effects would be considered. However, Topiramate remains a less well tolerated drug,  
244 hence its limited clinical use. Its main side effects are not serious, although bothersome,  
245 and are reversible when stopped.

246  
247 There will be no additional travel to be made.

248  
249 There will be two telephone follow-ups which will be carried out and which will require  
250 the participant to devote time to this exchange with the research team. In order to limit  
251 the impact, the follow-ups will be carried out at the times chosen by the participant. In  
252 addition, there will be a participant diary to fill out at home for neurological symptoms or  
253 side effects. This will be simplified as much as possible in order to limit the time to  
254 devote to it. It could reduce the time required for follow-ups.

255  
256 **ADVANTAGES THAT MAY ARISE FROM YOUR PARTICIPATION IN THE**  
257 **RESEARCH PROJECT**

258 There may be personal benefit to you from participating in this research project, but we  
259 cannot guarantee this. Moreover, the information resulting from this research project  
260 could contribute to the advancement of knowledge in the field of neurology and  
261 neurosurgery.

262  
263 **ALTERNATIVE TO PARTICIPATION IN THE RESEARCH PROJECT**

264 You do not have to participate in this research project to be treated for your disease.  
265 There are other anti-epileptic drugs available and your doctor can discuss them with  
266 you.

267  
268 **VOLUNTARY PARTICIPATION AND POSSIBILITY OF WITHDRAWAL**

269 Your participation in this research project is voluntary. You are therefore free to refuse  
270 to participate. You can also withdraw from this project at any time, without having to  
271 give any reasons, by informing the research team.

272  
273 Your decision not to participate in or to withdraw from this research project will have no

274 impact on the quality of care and services you receive.

275  
276 The doctor responsible for this research project, the research ethics committee can  
277 terminate your participation without your consent. This can happen if new findings or  
278 information indicate that your participation in the project is no longer in your best  
279 interest, if you do not follow the instructions of the research project or if there are  
280 administrative reasons for abandoning the project.

281  
282 If you opt out of the project or are withdrawn from the project, the information and  
283 material already collected as part of this project will nonetheless be retained, analyzed  
284 or used to ensure the scientific integrity of the project.

285  
286 Any new knowledge acquired during the course of the project that could have an impact  
287 on your decision to continue to participate in this project will be communicated to you  
288 promptly.

289  
290 **CONFIDENTIALITY**

291 Collection - Purposes for which personal information is requested

292 During your participation in this research project, the doctor in charge of this project as  
293 well as his staff will collect, in a research file, the necessary information to meet the  
294 scientific objectives of this research project.

295  
296 Collection - What personal information is requested

297 This information may include information contained in your medical file concerning your  
298 past and present state of health, your lifestyle as well as the results of all tests,  
299 examinations and procedures that will be performed. Your record may also include  
300 other information such as your gender and date of birth.

301  
302 Retention of information/data – Protection

303 All information collected will remain confidential within the limits provided by law. You  
304 will only be identified by a code number. The key to the code linking your name to your  
305 research file will be kept by the doctor responsible for this research project. It will be  
306 kept under lock and the key will be separated from the document containing the data  
307 collection.

308  
309 To ensure your safety, a mention of your participation in this research project will be  
310 added to your medical file. Consequently, any person or company to whom you give  
311 access to your medical file will have access to this information.

312  
313 The duration of the conversation

314 These research data will be kept for 25 years by the doctor responsible for this research  
315 project.

316  
317 Dissemination of results

318 Research results may be published or be the subject of scientific discussion, but it will  
319 not be possible to identify you.

320

321 Right of access for control and security purposes

322 For surveillance, control, protection and security purposes, your research file as well as  
323 your medical files may be consulted by representatives of the institution or of the  
324 research ethics board. These people and organizations adhere to a confidentiality  
325 policy.

326

327 You have the right to consult your research file to verify the information collected and  
328 have it corrected if necessary.

329

330 **COMPENSATION**

331 You will not receive financial compensation for your participation in this research  
332 project.

333

334 **IN CASE OF PREJUDICE**

335 If you suffer any prejudice whatsoever as a result of any procedure related to this  
336 research project, you will receive all the care and services required by your state of  
337 health.

338

339 By agreeing to participate in this research project, you do not waive any of your rights  
340 and you do not release the doctor responsible for this research project and the  
341 establishment of their civil and professional responsibilities.

342

343 **CONTACTS**

344 If you have any questions or experience problems related to the research project or if  
345 you wish to withdraw from it, you can contact the doctor or resident in charge or a  
346 member of the research team. Please refer to the box on page 1.

347

348 If you have any questions regarding your rights as a participant in this research project  
349 or if you have any complaints to make, you can contact the Complaints and Service  
350 Quality Office of the CIUSSS de l'Estrie-CHUS via [complaints.ciusse -  
351 chus@ssss.gouv.qc.ca](mailto:complaints.ciusse-chus@ssss.gouv.qc.ca) or at the following number: 1-866-917-7903.

352

353 **MONITORING ETHICAL ASPECTS**

354 The CIUSSS de l'Estrie -CHUS Research Ethics Committee approved the project and  
355 will monitor the project for participating establishments in the Quebec health and social  
356 services network.

357

358 If you wish to join one of the members of this committee, you can contact the CIUSSS  
359 de l'Estrie - CHUS Research Project Authorization Office via [ethique.recherche.ciusse-  
360 chus@ssss.gouv.qc.ca](mailto:ethique.recherche.ciusse-chus@ssss.gouv.qc.ca) or at 819-346-1110, extension 12856.

361

362 **SUBSEQUENT STUDIES**

363 In the event that research projects similar to this one take place in the next 5 years, do  
364 you agree to a member of the research team contacting you to suggest you a new  
365 participation? Of course, during this call, you would be completely free to accept or

366 decline to participate.

367  **YES**       **NO**

368

369

370 **CONSENT OF THE REPRESENTATIVE OF THE SUDDENLY UNFIT PERSON (For**  
371 **cases of sudden incapacity)**

372  
373 Due to the fact that Mr. / Mrs. \_\_\_\_\_ was suddenly rendered  
374 incapable of consenting for the reason identified below, the Civil Code of Quebec  
375 authorizes you, as \_\_\_\_\_ (your link with the participant) to  
376 consent for him (her) to participate in this research project.

377  
378 As soon as Mr./Mrs. \_\_\_\_\_ has recovered sufficiently, we will  
379 invite him (her) to sign the consent form so that he (she) can indicate his / her desire to  
380 continue, or not, his / her participation in the study.

381  
382 REASON WHY THE PARTICIPANT CANNOT CONSENT:

383 \_\_\_\_\_

384  
385 By signing this page, I declare that I have read this information and consent form. I  
386 admit that I was explained the project, that all my questions were answered and that I  
387 was given time to make a decision. I voluntarily give my consent for  
388 \_\_\_\_\_ to participate in this study.

389  
390 I authorize the research team to have access to his medical file.

391  
392 \_\_\_\_\_

Name of representative	Signature du représentant	Date
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393  
394  
395  
396 I explained to the representative the research project and this information and consent  
397 form and answered the questions he asked me.

398  
399  
400  
401 \_\_\_\_\_

Name of the person obtaining the consent	Signature of the person obtaining the consent	Date
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405 **CONSENT OF THE LEGAL REPRESENTATIVE OR CAREGIVER TO PARTICIPATION OF**  
406 **THE INCAPACITY**  
407 **(For cases of permanent incapacity)**

408  
409 I have read this information and consent form. I admit that I was explained the project,  
410 that my questions were answered and that I was given time to make a decision.

411  
412 I consent to \_\_\_\_\_ participating in this research project  
413 under the conditions stated therein. A signed and dated copy of this information and  
414 consent form will be given to me.

415  
416 I authorize the research team to have access to his medical file.

417  
418 If the incapacitated person is represented:

419 \_\_\_\_\_  
420 Name and signature of the legal representative Date  
421 (curator, tutor or agent)

422  
423  
424 If the incapacitated person is not represented as follows:

425 \_\_\_\_\_  
426 Name and signature of spouse Date  
427 In the absence of a spouse, a close relative or  
428 a person who shows a particular interest

429  
430  
431  
432 I explained to the representative the research project and this information and consent  
433 form and answered the questions he asked me.

434  
435 \_\_\_\_\_  
436 Name of the person Signature of the person Date  
437 obtaining the consent obtaining the consent

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451 **PARTICIPANT'S CONSENT**

452 I have read the information and consent form. The research project and this information  
453 and consent form were explained to me. My questions were answered and I was given  
454 time to make a decision. After reflection, I agree to participate in this research project  
455 under the conditions set out therein.

456  
457 I authorize the research team to have access to my medical file.  
458

459  
460 \_\_\_\_\_  
461 Participant name Participant signature Date

462  
463  
464  
465 Signature of witness:  
466 Required if language or reading barrier. If not applicable, write "N/A" on the signature  
467 line so as not to leave it blank.  
468

469  
470 \_\_\_\_\_  
471 Witness name Witness signature Date

472  
473  
474 I explained the research project and this information and consent form to the participant  
475 and answered the questions they asked me.  
476

477  
478 \_\_\_\_\_  
479 Name of the person Signature of the person Date  
480 obtaining the consent obtaining the consent  
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496 **APPENDIX: OPTIONAL PARTICIPATION FOR PATIENTS NEEDING SURGERY**

497

498 **ELECTROCORTICOGRAPHY**

499

500 **Eligible patient :**

501  **YES**       **NO**

502

503 **Definition**

504 Optional additional procedure during drainage surgery for subdural hematoma. This  
505 involves the insertion of two electrodes before the surgical wound is closed in the  
506 operating room. Recording will be performed through these electrodes for 72 hours, or  
507 until recording for 5 episodes of transient neurological symptoms. After recording, the  
508 electrodes can be pulled out at the bedside by traction and a single stitch will be made  
509 to the skin under local anesthesia.

510

511 **Purpose of the intervention**

512 The purpose of this recording is to increase the chances of diagnosing either epilepsy or  
513 cortical depolarizations. This will make it easier for follow-up, in addition to giving  
514 information on the prognosis. This procedure is entirely voluntary; refusal does not  
515 prevent participation in the study, nor adequate follow-up.

516

517 **Risks associated with the procedure**

518 This is accompanied by a minimal, but greater risk of perioperative infection (1%).  
519 High possibility of slight wound discomfort during recording, as well as when removing  
520 electrodes and stitches.  
521 In addition, following the insertion of the electrodes, there will be a 72 hour recording.  
522 This will not lengthen the length of hospital stay, but could prevent free mobilization out  
523 of the room due to the connected wires.

524

525 **ELECTROCORTICOGRAPHY CONSENT**

526 I have read the additional part about electrocorticography. I was told what  
527 electrocorticography is and the risks associated with it. My questions were answered  
528 and I was given time to make a decision. After some thought, I consented to have  
529 electrocorticography electrodes fitted following my drainage surgery.

530

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541 **CONSENT OF THE REPRESENTATIVE OF THE SUDDENLY UNFIT PERSON (For**  
542 **cases of sudden incapacity)**

543  
544 Due to the fact that Mr. / Mrs. \_\_\_\_\_ was suddenly rendered  
545 incapable of consenting for the reason identified below, the Civil Code of Quebec  
546 authorizes you, as \_\_\_\_\_ (your link with the participant) to  
547 consent for him (her) to participate in this research project.

548  
549 As soon as Mr./Mrs. \_\_\_\_\_ has recovered sufficiently, we will  
550 invite him (her) to sign the consent form so that he (she) can indicate his / her desire to  
551 continue, or not, his / her participation in the study.

552  
553 REASON WHY THE PARTICIPANT CANNOT CONSENT:  
554 \_\_\_\_\_

555  
556 By signing this page, I declare that I have read this information and consent form. I  
557 agree that I have been explained what electrocorticography is, that all of my questions  
558 have been answered and that I have been given time to make a decision. I voluntarily  
559 give my consent for \_\_\_\_\_ to have electrocorticography  
560 electrodes affixed.

561  
562  
563 \_\_\_\_\_  
564 Name of representative                      Signature du représentant                      Date

565  
566  
567 I explained to the representative the research project and this information and consent  
568 form and answered the questions he asked me.  
569

570  
571  
572 \_\_\_\_\_  
573 Name of the person                      Signature of the person                      Date  
574 obtaining the consent                      obtaining the consent

575

576 **CONSENT OF THE LEGAL REPRESENTATIVE OR CAREGIVER TO PARTICIPATION OF**  
577 **THE INCAPACITY**  
578 **(For cases of permanent incapacity)**

579  
580 I have read this information and consent form. I admit that I was explained the project,  
581 that my questions were answered and that I was given time to make a decision.

582  
583 I consent to \_\_\_\_\_ having electrodes for  
584 electrocorticography recording under the conditions set forth therein. A signed and  
585 dated copy of this information and consent form will be given to me.

586  
587 If the incapacitated person is represented:

588 \_\_\_\_\_  
589 Name and signature of the legal representative Date  
590 (curator, tutor or agent)

591  
592  
593 If the incapacitated person is not represented as follows:

594 \_\_\_\_\_  
595 Name and signature of spouse Date  
596 In the absence of a spouse, a close relative or  
597 a person who shows a particular interest

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600  
601 I explained to the representative what the electrocorticography and this information and  
602 consent form represent and answered the questions he asked me.

603  
604 \_\_\_\_\_  
605 Name of the person Signature of the person Date  
606 obtaining the consent obtaining the consent

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622 **PARTICIPANT'S CONSENT**

623 I have read the information and consent form. My questions were answered and I was  
624 given time to make a decision. After reflection, I agree having electrodes for  
625 electrocorticography recording under the conditions set forth therein

626

627

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628 Participant name	Participant signature	Date
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632

633 Signature of witness:

634 Required if language or reading barrier. If not applicable, write "N/A" on the signature  
635 line so as not to leave it blank.

636

637

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638 Witness name	Witness signature	Date
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639

640

641 I explained the research project and this information and consent form to the participant  
642 and answered the questions they asked me.

643

644

645

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646 Name of the person 647 obtaining the consent	Signature of the person obtaining the consent	Date
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649