

**Department of Physiology and Pharmacology**  
**Principles of Modern Drug Discovery: PhysPharm 4760A**

Course Outline for Fall 2026

*This course takes place at Western University, which is located on the traditional territories of the Anishinaabek, Haudenosaunee, Lūnaapéewak, and Chonnonton Nations, on lands connected with the London Township and Sombra Treaties of 1796 and the Dish with One Spoon Covenant Wampum.*

Students who are in emotional and/or mental distress should refer to <https://www.uwo.ca/health/> for a complete list of options about how to obtain help.

**1. Technical Requirements:**



Stable internet connection



Laptop or computer

**2. Important Dates:**

| Classes Begin | Reading Week  | Classes End | Study day(s) | Exam Period    |
|---------------|---------------|-------------|--------------|----------------|
| September 9   | October 10-18 | December 9  | December 10  | December 11–22 |

September 30, 2026: National Day for Truth and Reconciliation; non-instructional day

September 17, 2026: Last day to add or drop a Fall 12-week course

November 30, 2026: Last day to withdraw from a Fall 12-week course without academic penalty

**3. Contact Information**

| Course Coordinator   | Contact Information                                        |
|----------------------|------------------------------------------------------------|
| Rithwik Ramachandran | <a href="mailto:rramach@uwo.ca">rramach@uwo.ca</a> ; 82142 |

| Instructor(s) or Teaching Assistant(s) | Contact Information                                |
|----------------------------------------|----------------------------------------------------|
| Rithwik Ramachandran (Instructor)      | <a href="mailto:rramach@uwo.ca">rramach@uwo.ca</a> |
| Peter Stathopoulos (Instructor)        | <a href="mailto:pstatho@uwo.ca">pstatho@uwo.ca</a> |
| Li Yi Yan (Teaching Assistant)         | <a href="mailto:yli3642@uwo.ca">yli3642@uwo.ca</a> |

## 4. Course Description and Design

### **Delivery Mode:** in-person

This course explores modern drug discovery strategies that integrate cutting-edge molecular, structural, chemical, and computational biology approaches. Students will explore key drug targets and targeted therapeutic interventions across various diseases, tracing the transformative path from scientific idea to life-saving medical treatments.

**Antirequisite(s):** The former Pharmacology 4620A/B.

**Prerequisite(s):** One of Pharmacology 3620, Physiology 3140A, Biochemistry 3381A.

### **Timetabled Sessions**

| Component | Date(s)  | Time         |
|-----------|----------|--------------|
| Lecture   | Tuesdays | 2.30-4.30 PM |

- ☒ Attendance at all sessions is required
- ☒ Missed work should be completed within 24 hours

All course material will be posted to OWL Brightspace: <https://westernu.brightspace.com/d2l/login>. Any changes will be indicated on the OWL Brightspace site and discussed with the class.

If students need assistance, they can seek support on the [OWL Brightspace Help](#). Alternatively, they can contact the [Western Technology Services Helpdesk](#). They can be contacted by phone at 519-661-3800 or ext. 83800.

Current versions of all popular browsers (e.g., Safari, Chrome, Edge, Firefox) are supported with OWL Brightspace; what is most important is that you update your browser frequently to ensure it is current. All JavaScript and cookies should be enabled.

## 5. Learning Outcomes

Upon successful completion of this course, students will be able to:

- Identify the major classes of protein drug targets.
- Explain how the related signaling pathways function in health.
- Explain how the related signaling pathways become dysfunctional in disease.
- Identify the determinants of specific protein-drug interactions.
- Apply the above learning outcomes to conceptually develop new drugs.
- Assess strengths and weaknesses of different therapeutic targeting strategies.

## 6. Course Content and Schedule

| Week | Dates     | Topic                                                                                                                            | Instructor |
|------|-----------|----------------------------------------------------------------------------------------------------------------------------------|------------|
| 1    | Sept 9-13 | <b>No Class</b>                                                                                                                  |            |
| 2    | Sept 15   | Introduction/drug discovery overview/protein structure/artificial intelligence and structure guided approaches in drug discovery | RR and PS  |
| 3    | Sept 22   | G protein-coupled receptors. Targeting in cardiometabolic diseases.                                                              | RR         |
| 4    | Sept 29   | G protein-coupled receptors. Targeting in pain and CNS disorders.                                                                | RR         |
| 5    | Oct 6     | Kinases, Receptor Tyrosine Kinases. Targeting in Cancer                                                                          | RR         |
| 6    | Oct 12–18 | <b>Reading Week (starts October 10<sup>th</sup> 12:01 AM)</b>                                                                    |            |
| 7    | Oct 20    | Proteolytic enzymes. Targeting in Viral infections.                                                                              | RR         |
| 8    | Oct 27    | Cancer and Small GTPases                                                                                                         | PS         |
| 9    | Nov 3     | Neuronal disease and Potassium channels                                                                                          | PS         |
| 10   | Nov 10    | Heart disease and voltage/ligand gated ion channels                                                                              | PS         |
| 11   | Nov 17    | Arrhythmia and Ion exchangers                                                                                                    | PS         |
| 12   | Nov 24    | Myopathy and P-type ATPase transporters                                                                                          | PS         |
| 13   | Dec 1     | Guest lecturer (Zealand Pharma)<br>/Debate/Written Reflection                                                                    | RR and PS  |
| 14   | Dec 8     | Guest lecturer (Pfizer)<br>/Debate/Written Reflection                                                                            | RR and PS  |

## 7. Participation and Engagement

- ☒ Students are expected to participate and engage with lecture content as much as possible
- ☒ Students must participate during Guest Lecture/Debate
- ☒ Students are expected to participate by interacting in the forums with their peers and instructors

## 8. Assessment and Evaluation

Below is the evaluation breakdown for the course. Any deviations will be communicated.

| Assessment                                  | Format                                    | Weighting        | Due Date                            | Flexibility                                                       |
|---------------------------------------------|-------------------------------------------|------------------|-------------------------------------|-------------------------------------------------------------------|
| 10 Quizzes<br>(Week 3-14)                   | Multiple choice                           | <b>10% total</b> | In-class                            | Drop lowest 1 (i.e. only top scored 9 of 10 quizzes will be used) |
| Midterm Test<br>(Week 2-7 lectures)         | Mixed format                              | <b>35% total</b> | October 26 <sup>th</sup> ,<br>6-8PM | Not applicable;<br><b>Designated Assessment</b>                   |
| Essay Assignment                            | Written                                   | <b>12% total</b> | November 27 <sup>th</sup>           | 72-hour no late penalty                                           |
| 2 Guest Lecture Reflections<br>(Week 13-14) | Oral participation and Written Reflection | <b>8% total</b>  | End of week - Friday<br>11.59PM     | Not applicable                                                    |
| Final Exam<br>(Week 8-12 lectures)          | Mixed format                              | <b>35% total</b> | December Exam period                | Not applicable                                                    |

**Designated Assessment:** Instructors are permitted to designate one assessment per course per term as requiring supporting documentation to receive academic consideration. See below for information on academic consideration policy and missed course work. For this course the following assessment has been designated as requiring supporting documentation:

**Midterm Test** – Monday, October 26<sup>th</sup>, 6:00 – 8:00PM.

### Information about flexibility in assessment

- ☒ Flexibility in assessment has been applied to this course; therefore, academic consideration requests may be denied on the assessments where flexibility is included
- ☒ 72-hour no late penalty for Essay Assignment has been applied
- ☒ The lowest quiz grade will be dropped from the weekly quizzes (i.e. only 9 of 10 quizzes will be counted toward the final grade)

### General information about assessments

- ☒ All assignments are due at 11.59 PM EST unless otherwise specified
- ☒ Written Reflections are due by Friday at 11:59 PM EST of the week the Guest Seminar was presented.
- ☒ Quizzes will be administered in class and must be completed and submitted within ~15 minutes.
- ☒ Students are responsible for ensuring that the correct file version is uploaded; incorrect submissions including corrupt files could be subject to late penalties (see below) or a zero
- ☒ Written assignments will be submitted to Turnitin (statement in policies below)
- ☒ Students will have unlimited submissions to Turnitin
- ☒ Rubrics will be used to evaluate assessments and will be posted with the instructions
- ☒ After an assessment is returned, students should wait 24 hours to digest feedback before contacting their evaluator; to ensure a timely response, reach out within 7 days
- ☒ Assessment re-grading could result in the mark, increasing, decreasing, or remaining the same
- ☒ Prior to the filing of a written request for relief, students must attempt to resolve the concern regarding a mark or grade through informal consultation with the instructor. If the student is dissatisfied with the decision of the instructor or does not receive a decision from the instructor, a written request for relief must be submitted to the Undergraduate Chair within three (3) weeks from the date that the mark was issued.
- ☒ 15% of your course grade will be evaluated and returned a minimum of 3 days prior to the withdraw deadline.

The table below outlines the University-wide grade descriptors.

|    |          |                                                                 |
|----|----------|-----------------------------------------------------------------|
| A+ | 90-100   | One could scarcely expect better from a student at this level   |
| A  | 80-89    | Superior work which is clearly above average                    |
| B  | 70-79    | Good work, meeting all requirements, and eminently satisfactory |
| C  | 60-69    | Competent work, meeting requirements                            |
| D  | 50-59    | Fair work, minimally acceptable                                 |
| F  | below 50 | Fail                                                            |

### Information about late or missed assessments:

- ☒ Late assessments without approved academic consideration will be subject to a late penalty of **10%/day**
- ☒ An assessment cannot be submitted after it has been returned to the class
- ☒ One make-up midterm test will be offered; date to be announced but typically within 1 week of original test.
- ☒ Make-up assessments may be a different format than the original assessment

- ☒ The midterm test, essay and final exam must be passed to pass the course. If students have an approved academic consideration (with documentation) to miss the make-up midterm test, an INC will be assigned and these requirements will be completed the next time the course is offered.
- ☒ Only one special examination (see below) will be offered in January as a makeup for the final exam. If the final exam makeup is missed with approved academic consideration, a withdrawn without penalty will be applied (see SPC policy below)

**INC (Incomplete Standing):** If a student has been approved by the Academic Advising Office (in consultation with the instructor/department) to complete term work at a later date, an INC will be assigned, which could impact program progression. Students with INC will have their course load in subsequent terms reduced to allow them to complete outstanding course work. Students may request permission from Academic Advising to carry a full course load for the term the incomplete course work is scheduled.

**SPC (Special examination):** If a student has been approved by the Academic Advising Office to write a Special Examination and the final exam is the only outstanding course component, an SPC will be assigned. If the class has a makeup exam, the student is expected to write the makeup exam. If the class doesn't have a makeup for the final exam, the student will write the exam the next time the course is offered, which could impact program progression. Outstanding SPCs will reduce the course load for the term the exam is deferred as outlined in [Definitions of Types of Examinations](#) policy. If a student misses an SPC exam and is approved for academic consideration, they will be withdrawn from the course without academic penalty. If a student misses an SPC exam and is not approved for academic consideration, they will receive a grade of zero on the exam.

## 9. Communication

- ☒ Students should check the OWL Brightspace site every 24–48 hours.
- ☒ Students should email their instructor(s) and teaching assistant(s) using the addresses listed in the syllabus
- ☒ Emails will be monitored daily; students will receive a response in 24–48 hours.
- ☒ This course will also use discussion forums on Brightspace.
- ☒ Students should post all course-related queries on the discussion forum so that everyone can access the questions and responses

## 10. Office Hours

- ☒ Office hours will be held in-person. Please email the instructor as required to schedule.

## 11. Course Materials

- ☒ All resources will be posted on OWL Brightspace.
- ☒ There are no required textbooks for this course but students may find the following textbooks useful: Rang and Dale Pharmacology, Goodman and Gilman, The Pharmacological Basis of Therapeutics. Additional reading material will be provided for each lecture.

## 12. Professionalism & Privacy

Western students are expected to follow the [Student Code of Conduct](#). Additionally, the following expectations and professional conduct apply to this course:

- ☒ All course materials created by the instructor(s) are copyrighted and cannot be sold/shared/upload (e.g., Must Knows Facebook group, Course Hero, Chegg, ChatGPT, etc.)
- ☒ Recordings are not permitted (audio or video) without explicit permission
- ☒ Permitted recordings are not to be distributed
- ☒ Students will be expected to take an academic integrity pledge before some assessments

Western is committed to providing a learning and working environment that is free of harassment and discrimination. All **students**, staff, and faculty have a role in this commitment and have a responsibility to ensure and promote a safe and respectful learning and working environment. Relevant policies include Western's Non-Discrimination/Harassment Policy (M.A.P.P. 1.35) and Non-Discrimination/Harassment Policy – Administrative Procedures (M.A.P.P. 1.35). Any **student**, staff, or faculty member who experiences or witnesses' behaviour that may be harassment or discrimination **must report the behaviour** to the Western's Human Rights Office. Harassment and discrimination can be human rights-based, which is also known as EDI-based, (sexism, racism, transphobia, homophobia, islamophobia, xenophobia, antisemitism, and ableism) or non-human rights-based (personal harassment or workplace harassment).

### 13. How to Be Successful in this Class

Students enrolled in this class should understand the level of autonomy and self-discipline required to be successful.

1. Invest in a planner or application to keep track of your courses. Populate all your deadlines at the start of the term and schedule your time throughout the course.
2. Make it a daily habit to log onto OWL Brightspace to ensure you have seen everything posted to help you succeed in this class.
3. Follow checklists created on OWL Brightspace or create your own to help you stay on track.
4. Take notes as you go through the lesson material. Keeping handwritten notes or even notes on a regular Word document will help you learn more effectively than just reading or watching the videos.
5. Connect with others. Try forming an online study group and try meeting on a weekly basis for study and peer support.
6. Do not be afraid to ask questions. If you are struggling with a topic, check the online discussion boards or contact your instructor(s) and or teaching assistant(s).
7. Reward yourself for successes. It seems easier to motivate ourselves knowing that there is something waiting for us at the end of the task.

### 14. Western Academic Policies/Procedures and Statements

#### A. Absence from Course Commitments

##### Medical, Compassionate, or Extenuating Circumstances

Students missing course work for medical, compassionate, or extenuating circumstances can request academic consideration by completing a request at the [Student Absence Portal](#). Students are permitted one academic consideration request per course per term **without** supporting documentation. Note that supporting documentation is **always** required for academic consideration requests for examinations scheduled by the office of the registrar (e.g., December and April exams) and for practical laboratory and performance tests (typically scheduled during the last week of the term).

Students should also note that the instructor may **designate** one assessment per course per term that requires supporting documentation. This designated assessment is described elsewhere in this document. Academic consideration requests may be denied when flexibility in assessment has already been included. Examples of flexibility in assessment include when there are assessments not required for calculation of the final grade (e.g. 8 out of 10 quizzes) or there is flexibility in the submission timeframe (e.g. 72 hour no late penalty period).

Please note that any academic considerations granted in this course will be determined by the instructor of this course, in consultation with the academic advisors in your Faculty of Registration, in accordance with information presented in this course syllabus. Supporting documentation for academic considerations

for absences due to illness should use the Student Medical Certificate or, where that is not possible, equivalent documentation by a health care practitioner.

**Policy:** [Academic Consideration – Undergraduate Students in First Entry Programs](#)

**Procedures:** [Student Medical Certificate](#)

### Religious Holidays

Students should review the policy for Accommodation for Religious Holidays (Appendix 1). Where a student will be unable to write examinations and term tests due to a conflicting religious holiday, they should inform their instructors as soon as possible but not later than two weeks prior to writing the examination/term test. In the case of conflict with a midterm test, students should inform their instructor as soon as possible but not later than one week prior to the midterm.

**Policy:** [Accommodation for Religious Holidays](#)

### Special Examinations

A Special Examination is any examination other than the regular examination, and it may be offered only with the permission of the Dean of the Faculty in which the student is registered, in consultation with the instructor and Department Chair. Permission to write a Special Examination may be given on the basis of compassionate or medical grounds with appropriate supporting documents. To provide an opportunity for students to recover from the circumstances resulting in a Special Examination, the University has implemented Special Examinations dates.

**Policy:** [Definitions of Types of Examinations](#)

## **B. Academic Appeals and Scholastic Offenses**

Students can file a **request for relief from academic decisions** if the request is based on one or more grounds listed in the policy. Requests for relief generally fall into three categories, which are also listed in the policy. All requests for relief must be supported by evidence. A request for relief from academic decisions process was formally referred to as an appeal. Refer to the policy and procedures about further details and timelines.

**Policy:** [Requests for Relief from Academic Decisions](#)

**Procedures:** [Undergraduate Student Academic Requests for Relief](#)

**Scholastic offences** are taken seriously, and students are directed to read the appropriate policy, specifically, the definition of what constitutes a scholastic offence.

**Policy:** [Scholastic Offences](#)

**Procedures:** [Undergraduate Scholastic Offences](#)

Students may **appeal** some academic and scholastic disciplinary decisions by a Dean or their designate, to the Senate Review Board Academic (SRBA).

**Policy:** [Senate Review Board Academic Appeals](#)

**Procedures:** [Senate Review Board Academic Appeals](#)

## **C. Accessibility Statement**

Please contact the course instructor if you require material in an alternate format or if you require any other arrangements to make this course more accessible to you. You may also wish to contact Accessible Education (AE) at 661-2111 x 82147 for any specific question regarding an accommodation.

**Policy:** [Academic Accommodation for Students with Disabilities](#)

#### **D. Correspondence Statement**

The centrally administered **e-mail account** provided to students will be considered the individual's official university e-mail address. It is the responsibility of the account holder to ensure that e-mail received from the University at his/her official university address is attended to in a timely manner.

#### **E. Discovery Credit Statement**

Students are permitted to designate up to 1.0 Discovery Credit course (or equivalent) for pass/fail grading that can be counted toward the overall course credits required for their degree program.

**Policy:** [Undergraduate Course Credit](#)

**Procedures:** [Discovery Credits](#)

#### **F. Statement on the Use of Electronic Devices**

- ☒ No electronic devices of any kind are permitted at desks during the midterm test. All phones, smartwatches, laptops and other unauthorized electronics must be powered off and kept out of reach in closed bags.
- ☒ No electronic devices of any kind are permitted at desks during the final examination. All phones, smartwatches, laptops and other unauthorized electronics must be powered off and kept out of reach in closed bags.

#### **G. Statement on the Use of Generative Artificial Intelligence (AI)**

This course will use AI platforms and tools for protein structure prediction and docking. Within this course, students are permitted to use AI tools exclusively for information gathering and preliminary research purposes. These tools are intended to enhance the learning experience by providing access to diverse information sources. However, it is essential that students critically evaluate the obtained information, exercise independent thinking, and engage in original research to synthesize and develop their own ideas, arguments, and perspectives. The use of AI tools can serve as a starting point for exploration, with students expected to uphold academic integrity by appropriately attributing all sources and avoiding plagiarism. Assignments should reflect the students' own thoughts and independent written work. By adhering to these guidelines, students contribute to a responsible and ethical learning environment that promotes critical thinking, independent inquiry and allows them to produce original written contributions. All AI use must be declared, and instructors may choose to use alternative assessment methods (e.g., in person discussions) if excessive unattributed AI use is suspected. AI tools are not used for any course assessments.

#### **H. Turnitin and other similarity review software**

All required papers may be subject to submission for textual similarity review to the commercial plagiarism detection software under license to the University for the detection of plagiarism. All papers submitted for such checking will be included as source documents in the reference database for the purpose of detecting plagiarism of papers subsequently submitted to the system. Use of the service is subject to the licensing agreement, currently between Western University and [Turnitin.com](#).

Computer-marked multiple-choice tests and/or exams may be subject to submission for similarity review by software that will check for unusual coincidences in answer patterns that may indicate cheating.

### **15. BMSUE Academic Policies and Statements**

#### **A. Cell Phone and Electronic Device Policy (for in-person tests and exams)**

The Schulich School of Medicine & Dentistry is committed to ensuring that testing and evaluation are undertaken fairly across all our departments and programs. For all tests and exams, it is the policy of the School that any electronic devices, e.g., cell phones, tablets, cameras, smart glasses, smart watch or iPod are strictly prohibited. These devices **MUST** be left either at home or with the student's bag/jacket at the front of the room and **MUST NOT** be at the test/exam desk or in the individual's pocket. Any student found with one of these prohibited devices will receive a grade of zero on the test or exam and this will be documented as a Scholastic Offence. Non-programmable calculators are only allowed when indicated by the instructor. The program is not responsible for stolen/lost or broken devices.

## **B. Copyright and Audio/Video Recording Statement**

Course materials produced by faculty are copyrighted and to reproduce this material for any purposes other than your own educational use contravenes Canadian Copyright Laws. You must always ask permission to record another individual and you should never share or distribute recordings.

## **C. Rounding of Marks Statement**

Across the Basic Medical Sciences Undergraduate Education programs, we strive to maintain high standards that reflect the effort that both students and faculty put into the teaching and learning experience during this course. All students will be treated equally and evaluated based only on their actual achievement. **Final grades** in this course are rounded to the nearest whole number based on the first decimal place. For example, a grade of 74.49 or lower will be rounded to 74, whereas 74.50 or higher will be rounded to 75.

Marks **WILL NOT** be arbitrarily increased to the next grade or GPA, e.g., a 79 will **NOT** be increased to an 80, and 84 **WILL NOT** be increased to an 85, etc. The mark attained is the mark you achieved, and the mark assigned; requests for arbitrary mark increasing will be denied. Marks will be assigned based on assessments in the syllabus and no extra work or tasks will be assigned to increase a mark.

**Course grade** rounding provisions, as described above, differ from cumulative and term averages. Cumulative and term averages will be calculated to two decimal places and rounded to the nearest whole number with .45 rounded up, for the purposes of admission to and progression in modules, scholarship retention, and Dean's Honour List.

**Policy:** [Marks/Grades; Definitions of Grades; Grading Scale for Undergraduate Students](#)

## **16. Support Services**

Students who are in emotional/mental distress should refer to Mental Health @Western <https://www.uwo.ca/health/> for a complete list of options about how to obtain help.

### **Statement on Gender-Based and Sexual Violence**

Western is committed to reducing incidents of gender-based and sexual violence and providing compassionate support to anyone who has gone through these traumatic events. If you have experienced sexual or gender-based violence (either recently or in the past), you will find information about support services for survivors, including emergency contacts at the following website:

[https://www.uwo.ca/health/student\\_support/survivor\\_support/get-help.html](https://www.uwo.ca/health/student_support/survivor_support/get-help.html)

To connect with a case manager or set up an appointment, please contact [support@uwo.ca](mailto:support@uwo.ca).

Other important links:

- [Academic Advising \(Science and Basic Medical Sciences\)](#)
- [Learning Development and Success](#)
- [Office of the Registrar](#)

- [Wellness & Wellbeing](#)
- [Western USC Services](#)

## Appendix 1: Western University Academic Policies and Procedures

The policies and procedures listed in this syllabus are outlined in the table below. In some cases, a policy does not include an accompanied procedures document.

| Academic Policy                       | Name of Policy/Procedure                                                          | Links                                               |
|---------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------|
| General Policy                        | Marks/Grades; Definitions of Grades; Grading Scale for Undergraduate Students     | <a href="#">Policy</a>                              |
| General Policy                        | Structure of the Academic Year                                                    | <a href="#">Policy</a>                              |
| Registration, Progression, Graduation | Course Numbering Policy, Essay Courses, and Hours of Instruction                  | <a href="#">Policy</a>                              |
| Registration, Progression, Graduation | Undergraduate Course Credit                                                       | <a href="#">Policy</a> • <a href="#">Procedures</a> |
| Examinations                          | Definitions of Types of Examinations                                              | <a href="#">Policy</a>                              |
| Examinations                          | Evaluation of Academic Performance                                                | <a href="#">Policy</a>                              |
| Examinations                          | Examination Conflicts                                                             | <a href="#">Policy</a>                              |
| Rights and Responsibilities           | Academic Accommodation for Students with Disabilities                             | <a href="#">Policy</a>                              |
| Rights and Responsibilities           | Accommodation for Religious Holidays                                              | <a href="#">Policy</a>                              |
| Rights and Responsibilities           | Policy on Academic Consideration – Undergraduate Students in First Entry Programs | <a href="#">Policy</a> • <a href="#">Procedures</a> |
| Rights and Responsibilities           | Requests for Relief from Academic Decisions (Undergraduate)                       | <a href="#">Policy</a> • <a href="#">Procedures</a> |
| Rights and Responsibilities           | Requests for Relief from Academic Decisions (Graduate)                            | <a href="#">Policy</a> • <a href="#">Procedures</a> |
| Rights and Responsibilities           | Scholastic Offences (Undergraduate)                                               | <a href="#">Policy</a> • <a href="#">Procedures</a> |
| Rights and Responsibilities           | Senate Review Board Academic Appeals                                              | <a href="#">Policy</a> • <a href="#">Procedures</a> |