

Pharmacology & Translational Medicine BSc

## Principles of Pharmacodynamics & Pharmacokinetics

8<sup>th</sup> October - 9<sup>th</sup> November 2011

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## Module assessment!



- Final Exam (~2.5hr paper) 70 % of marks
- In course assessment 30 % of marks

## Medics Final Exam (Feb)

3 hours - three components

1. Essay Question (~1 hr 15 min)
2. Data Analysis & Interpretation (~1 hr)
3. Short Answer Questions (~45 min)  
SAQs - may be descriptive or numerical

## In course assessment

- 20 % for short presentation (15min) on final day of module (8<sup>th</sup> November 12-5pm)
- 80 % for an essay to be submitted at end of the module
- - submission deadline 9 am on Monday 12<sup>th</sup> November.

## Presentation

- 10 min PowerPoint presentation + 5mins for questions
- Make sure that you don't exceed 10min
  - Practise the talk & time yourself
- Not required to provide handouts but can if you wish

## What we are looking for

- Clear Presentation - good use of slides
- Clarity (audible)
- Content relevant to your topic
- Responses to questions
- Demonstrate an understanding of the topic
- Reference source material

## Essay



## Essay

- 1500 words not including Figures or References
- Microsoft Word document - Blackboard & one hardcopy to FEO by 9 am on 12<sup>th</sup> November
- Late submission:
  - up to 7 days -20%; 8 to 14 days -40%
  - Over 14 days - no mark awarded

## Format

- Hardcopy printed & stapled
- Double spaced
- Single sided
- 12 point type - best to use a serif font like "Times"
- 2.5cm margins
- Your Name, Date, Module, Essay Title on the first page
- Numbered pages
- Fully cited references

## Format: Short journal review article

- Abstract
- Introduction
- Discussion of topic
- Short Summary
- References
- Diagrams & tables can be included as appropriate

## How to research your essay

- Topics are related to lecture material
- May be some information in textbooks
- Literature searches - PubMed / ISI Web of Knowledge
- <http://www.ncbi.nlm.nih.gov/pubmed>
- <http://apps.isiknowledge.com>

## Choose your search terms carefully

The screenshot shows a web browser window displaying a PubMed search result. The search query is 'aspirin heart disease'. The results are sorted by 'Recently Added' and show 1 to 20 of 9928 results. The first three results are:

- [Adjunctive pharmacologic therapy in percutaneous coronary intervention: Part I antiplatelet therapy.](#)  
1. Kim SJ, Giugliano RP, Jang IK.  
Coron Artery Dis. 2010 Oct 5. [Epub ahead of print]  
PMID: 20926950 [PubMed - as supplied by publisher]  
[Related citations](#)
- [Effect of single nucleotide polymorphisms within the interleukin-4 promoter on aspirin intolerance in asthmatics and interleukin-4 promoter activity.](#)  
2. Kim BS, Park SM, Uhm TG, Kang JH, Park JS, Jang AS, Uh ST, Kim MK, Choi IS, Cho SH, Hong CS, Lee YW, Lee JY, Choi BW, Park HS, Park E.  
Pharmacogenet Genomics. 2010 Sep 30. [Epub ahead of print]  
PMID: 20921925 [PubMed - as supplied by publisher]  
[Related citations](#)
- [When and why do heart attacks occur? Cardiovascular triggers and their potential role.](#)  
3. Schwartz BG, Mayeda GS, Burstein S, Economides C, Kloner RA.  
Hosp Pract (Minneap). 2010 Aug;38(4):144-52.  
PMID: 20890064 [PubMed - in process]  
[Related citations](#)

The fourth result is partially visible:

- [Outcomes Related to Antiplatelet or Anticoagulation Use in Patients Undergoing Carotid Endarterectomy.](#)  
4. Rosenbaum A, Rizvi AZ, Alden PB, Tretinyak AS, Graber JN, Goldman JA, Sullivan TM.  
Ann Vasc Surg. 2010 Oct 2. [Epub ahead of print]

## Choose your search terms carefully

aspirin heart disease mechanism - PubMed result

NCBI Resources How To

PubMed.gov  
U.S. National Library of Medicine  
National Institutes of Health

Search: PubMed  
aspirin heart disease mechanism Search Clear

Display Settings: Summary, 20 per page, Sorted by Recently Added

**Results: 1 to 20 of 290**

- [The appearance of dermcidin isoform 2, a novel platelet aggregating agent in the circulation in acute myocardial infarction that inhibits](#)  
1. Ghosh R, Karmohapatra SK, Bhattacharyya M, Bhattacharya R, Bhattacharya G, Sinha AK.  
J Thromb Thrombolysis. 2010 Aug 31. [Epub ahead of print]  
PMID: 20809104 [PubMed - as supplied by publisher]  
[Related citations](#)
- [Pulse pressure is a predictor of vascular endothelial function in middle-aged subjects with no apparent heart disease.](#)  
2. Beigel R, Dvir D, Arbel Y, Shechter A, Feinberg MS, Shechter M.  
Vasc Med. 2010 Aug;15(4):299-305.  
PMID: 20724375 [PubMed - in process]  
[Related citations](#)
- [Relation of pre-event use of inhibitors of the renin-angiotensin system with myocardial infarct size in patients presenting with a first ST-](#)  
3. Shariff N, Dunbar C, Matsumura ME.  
Am J Cardiol. 2010 Sep 1;106(5):646-9.  
PMID: 20723639 [PubMed - indexed for MEDLINE]  
[Related citations](#)
- [The state of periprocedural antiplatelet therapy after recent trials.](#)  
4. Desai NR, Bhatt DL.

## Set limits if necessary

PubMed limits

Computer memory upgrades for Dell OptiPlex GX50 Series Desktop-PC from Crucial  
<http://www.crucial.com/uk/store/listparts.aspx?...>

NCBI Resources How To

PubMed.gov  
U.S. National Library of Medicine  
National Institutes of Health

Search: PubMed  
aspirin heart disease mechanism Search Clear

**Limits**

Dates  
Published in the Last: Any date

Type of Article  
 Clinical Trial  
 Editorial  
 Letter  
 Meta-Analysis  
 Practice Guideline

Species  
 Humans  
 Animals

Subsets

# Set limits if necessary

aspirin heart disease mechanism - PubMed result

NCBI Resources How To

PubMed.gov  
U.S. National Library of Medicine  
National Institutes of Health

Search PubMed  
aspirin heart disease mechanism Search Clear

Display Settings Summary, 20 per page, Sorted by Recently Added

Limits Activated: Clinical Trial, Meta-Analysis Change Remove

Results: 1 to 20 of 52

- Factors responsible for "aspirin resistance" - can we identify them?
  - Postula M, Tarchalska-Kryńska B, Filipiak KJ, Kosior D, Serafin A, Huczek Z, Opolski G. *Kardiol Pol.* 2010 Apr;68(4):403-11; discussion 412-3. PMID: 20425699 [PubMed - indexed for MEDLINE] [Free Article](#)  
[Related citations](#)
- The in vitro effects of Xancor, a synthetic astaxanthine derivative, on hemostatic biomarkers in aspirin-naïve and aspirin-treated subjects with m
  - Serebruany V, Malinin A, Goodin T, Pashkow F. *Am J Ther.* 2010 Mar-Apr;17(2):125-32. PMID: 20305399 [PubMed - indexed for MEDLINE]  
[Related citations](#)
- Comparison of the anticoagulant intensities of fondaparinux and enoxaparin in the Organization to Assess Strategies in Acute Ischemic Syndrom
  - Anderson JA, Hirsh J, Yusuf S, Johnston M, Afzal R, Mehta SR, Fox KA, Budaj A, Eikelboom JW. *J Thromb Haemost.* 2010 Feb;8(2):243-9. Epub 2009 Nov 26. PMID: 19943881 [PubMed - indexed for MEDLINE]  
[Related citations](#)
- Thienopyridine derivatives versus aspirin for preventing stroke and other serious vascular events in high vascular risk patients.
  - Sudlow CL, Mason G, Maurice JB, Wedderburn CJ, Hankey GJ.

# Plan your essay



HARRIET WAS STILL IN THE MIDDLE OF HER ESSAY.



## Plan your essay

- Think about the overall “big picture” for your essay
- Allow yourself sufficient time!!
  - Don't leave everything to the last minute
  - Use the study periods assigned
- Read through your essay before submission!
  - Use the spellchecker

## References

- Reference list at end of document
- Using a program like Endnote can help save you time and effort
- Use numbered references [1] in the text

### Reference list

[1] Dickinson, R, "How to reference an essay". Journal of Medical Education, 2010, vol 55, p579-582

## References

- Check you references !
- Make sure the reference says what you think it says
  - Copying references from another paper without reading the original can cause embarrassment!
- Don't just cite one lab/author
  - Try to show a comprehensive reading

## Good referencing avoids Plagiarism!

- See Handout on Plagiarism

Use a computer !



## What we look for in an essay

- Well presented essay following the correct format and length !
- Demonstrates understanding of topic
- Shows evidence of outside reading
- Demonstrates analytical and critical ability
- See Handout with marking scheme

## How to submit your essay

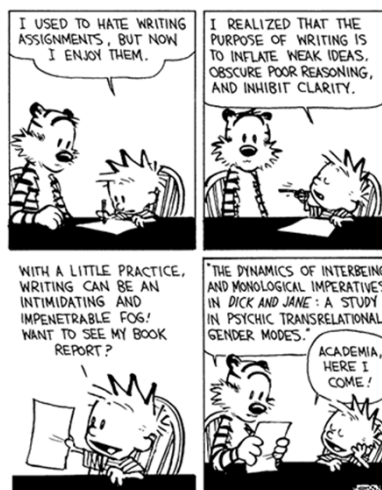
- Electronic Submission via Coursework Portal on Blackboard

- plus Hardcopy with cover page (Year 4 web page) to FEO Hammersmith

**DEADLINE: 9am on Monday 12<sup>th</sup> November**

If you submit electronically before deadline make sure you also submit a hardcopy by 9am on Monday 12<sup>th</sup>

## Questions?



The difference between a Scientific essay and a Humanities essay ?

## BMS BSc Final Exam (June)

2.5 hours - three components

1. Essay Question (~1 hr)
2. Data Analysis & Interpretation (~1 hr)
3. Single Best Answer (~0.5hr) (multiple choice)  
SBAs - may be descriptive or numerical