Course Title	Research Project			
Course Code	MED-405			
Course Type	Required			
Level	Undergraduate			
Year / Semester	Year 4/ Semester 7 (Fall)			
Teacher's Name	Course Lead: Dr Constantina Constantinou			
ECTS	6 Lectures / week 2 Laboratories / week 0			
Course Purpose and Objectives	Dr Constantina Constantinou			

Learning	Learning outcomes for all students:				
Learning	After completion of the course students should be able to:				
Outcomes	1. Access, analyse and evaluate published research papers.				
	2. Develop and apply analytical and critical appraisal skills.				
	3. Develop self-directed learning skills.				
	4. Study, in depth, a topic of particular interest outside the core curriculum.				
	5. Describe the ethical issues relevant to writing a research paper including				
	integrity, copyright and citation.				
	6. Demonstrate time management skills.				
	7. Consider potential career pa				
	For students in Pathway A carrying out a Narrative Literature Review:				
	After completion of the course students should be able to:				
	1. Describe the aims and structure of a Narrative Literature Review.				
	<ol> <li>Discuss and critically appraise the literature.</li> </ol>				
	3. Write a Narrative Literature Review at the level of a publication in an				
		•			
	academic journal.				
	4. Describe how a Narrative Literature Review can support the development				
	of research hypotheses and research proposals.				
	For students in Pathway B carrying a Research Project:				
	After completion of the course students should be able to:				
	1. Implement an original Research Project (typically clinical research, audit or				
	service evaluation) incorporating collection of quantitative or qualitative				
	data				
	2. Collect data and analyse usi	ina suitable methods ii	ocluding simple		
	descriptive statistics and gra		icidaling simple		
	<ol> <li>Discuss and critically appraise the study results in relation to the literature, recognising any limitations of the collected data, and drawn conclusions meeting the study aims</li> </ol>				
	4. Design and produce a Research Poster suitable for display at a scientific conference that meets the published assessment criteria, written in plain				
	<ul><li>English and accessible by a general professional audience including healthcare professionals, researchers and medical educationalists.</li><li>5. Describe the ethical issues relevant to writing a research paper including</li></ul>				
	integrity, copyright and citatio				
Prerequisites	None	Required	None		
	Introduction to the course.				
Course	<ul><li>The structure of the Narrative Literature Review.</li><li>Development of a Research Strategy</li></ul>				
Content					
	Carrying out a Literature Review.				
	Critical appraisal of the literature.				
	<ul> <li>Writing a Narrative Literature Review.</li> </ul>				
	<ul> <li>Carrying out an Original Research Pr</li> </ul>	roject.			
	Constructing a scientific poster.				
	Presenting a scientific poster.				
Teaching	Lectures, tutorials with Course Lead, self-directed learning.				
Methodology					
Methodology					
Bibliography	PATHWAY A:				
Dibilography	Background reading on non-communicable diseases				
	1. Noncommunicable diseases Factshe	et. World Health Orga	nisation. January 2015.		

2. World Health Organization. Global Health Observatory (GHO): NCD mortality and morbidity. Available from: <a href="http://www.who.int/gho/ncd/mortality\_morbidity/">http://www.who.int/gho/ncd/mortality\_morbidity/</a>

## Importance and guidelines for writing Narrative Review Articles (available on Moodle)

- 3. Ferrari, R. (2015) 'Writing narrative style literature reviews', *Medical Writing*, vol. 24, pp. 231-234.
- 4. Mayer, P. (2009) 'Guidelines for writing a review article.'
- 5. Pautasso, M. (2013) 'Ten simple rules for writing a literature review', *PLOS Computational Biology*, 9(7), pp. e100319.

## Sample Narrative Review articles (available on Moodle)

- 6. Ford, A.C., Lacy, B.E. and Talley, N.J. (2017) 'Irritable bowel syndrome', *The New England Journal of Medicine*, 376(26), pp. 2566-2578.
- 7. Shah, R., Rosso, K. and Nathanson, S. D. (2014) 'Pathogenesis, prevention, diagnosis and treatment of breast cancer', *World Journal of Clinical Oncology*, 5(3) pp. 283-298.
- 8. De Benedictis, D. and Bush, A. (2017) 'Asthma in adolescence: is there any news?', *Pediatric Pulmonology*, 52, pp. 129-138.
- 9. Giordano, S. H. (2005) 'A review of the diagnosis and management of male breast cancer', *The Oncologist*, 10, pp. 471-479.
- 10. Randolph, C. (2013). 'Pediatric exercise-induced bronchoconstriction: contemporary developments in epidemiology, pathogenesis, presentation, diagnosis, and therapy', *Curr Allergy Asthma Rep*, 13, pp. 662-71.
- Fan, L., Strasser-Weippl, K., Li, J., St Louis, J., Finkelstein, D., Yu, K., Chen, W., Shao, Z. and Goss, P. (2014). 'Breast Cancer in China', *The Lancet*, 15, pp. e279-e289.
- Lin, Q-J., Yang, F., Jin, C., and Fu D-L. (2015) 'Current status and progress of pancreatic cancer in China', *World Journal of Gastroenterology*, 21(26) pp. 7988-8003.
- Gallardo-Rincón D, Espinosa-Romero R, Muñoz WR, Mendoza-Martínez JR, del Villar-Álvarez S, Oñate-Ocaña L, Isla-Ortiz D, Márquez-Manríquez JP, Apodaca-Cruz A, Meneses-García A. (2016). 'Epidemiological overview, advances in diagnosis, prevention, treatment and management of epithelial ovarian cancer in Mexico.' Salud Publica Mex 58, pp. 302-308.

## PATHWAY B:

## Articles on creating Research Posters (available on Moodle)

- 1. Papanas N et al (2019). Creating a successful poster: 'Beauty is truth, truth beauty.' The International Journal of Lower Extremity Wounds 2019, Vol. 18(1) 6–9.
- 2. Bavdekar SB et al. (2017) Creating posters for effective scientific communication. Journal of The Association of Physicians of India 65, 82-88.
- 3. Gundogan, B., Koshy, K., Kurar L and Whitehurst, K. (2016) 'How to make an academic poster.' Ann Med Surg (London) 11, 69-71.
- Research posters. A guide for creating, editing and presenting a successful research project. Accessible at https://guides.temple.edu/a.php2g.2048458p.4709900
  - https://guides.temple.edu/c.php?g=264815&p=1768809
- Miller JE. Preparing and presenting effective research posters. (2007) Health Research and Educational Trust 311-327, DOI: 10.1111/j.1475-6773.2006.00588.x Accessible at: <u>https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1955747/pdf/hesr0042-0311.pdf</u>

Assessment	<ul> <li>(a) For students in Pathway A carrying out a Narrative Review: A 4000-word Narrative Literature Review article (100%) or</li> <li>(b) For students in Pathway B carrying out a Research Project: A Research Poster (100%).</li> </ul>
Language	English