## MCM Practice Questions: Lecture Day 3

## karan gidwani

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## Lecture 9: Eicosanoids and Lipid Mediators I

- 1) Arachidonic Acid is a non-essential FA that is a precursor to eicosanoids. However, in the absence of what acid from the diet, Arachidonic acid becomes an essential FA?
- (A) Eicosapentaenoic acid (EPA)
- (B) Alpha-Linolenic acid (ALA)
- (C) Docosahexaenoic acid (DHA)
- (D) Linoleic acid (LA)
- 2) The healthy ratio of omega-6: omega-3 FA's ranges from 1:1-1:4. Which of the following is one of the benefits of maintaining this ratio?
  - (A) Decreased protection from cardiovascular disease
  - (B) Decreased Resolvins
  - (C) Proliferation of Proinflammatory cells
- (D) Decreased Neuronal apoptosis
- 3) Research has indicated that there is increased thromboxane synthesis in patients afflicted with deep vein thrombosis (DVT). What class of enzymes catalyze the synthesis of these molecules from Arachidonic Acid?
- (A) Lipoxegenases
- (B) Cyclooxygenases
- (C) Thrombokinase
- (D) Thrombooxygenase

(A)	Leukotrienes
(B)	Prostaglandins
(C)	Interleukins
(D)	Thromboxanes
	) A pregnant woman starts uterine contractions. What Prostagland notes this contraction?
(A)	$PGI_2$
(B)	$PGF_2a$
(C)	$PGD_2$
(D)	$PGE_2$
COL	
	K-2. What does COX-2 produce after alteration by aspirin?  Lipoxins
(A)	
(A) (B)	Lipoxins
(A) (B) (C)	Lipoxins Prostaglandins
(A) (B) (C) (D) 7 a pa A co	Lipoxins Prostaglandins Resolvins
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