

**Table 1** Studies investigating the efficacy of LC n-3 PUFAs and metabolites in animal models of AAA and pre-AAA

Mouse	Stimulus	Diet	Study design	Reference
Male C57BL/6 and ApoE <sup>-/-</sup> C57BL/6 background mice	AngII, 1000 ng/kg/min for 2 days. Saline control.	Low LC n-3 PUFA (0% EPA, 0% DHA, 0.14% total LC n-3 PUFA). High LC n-3 PUFA (0.07% EPA, 0.3% DHA, 0.7% total LC n-3 PUFA).	FA diet commencing week 3 for 8 weeks, AngII or Saline for 2 days, commencing week 11.	[85]
1) Male C57BL/6J mice	Abdominal aortic perfusion with elastase for 5 min and maintained for 2 weeks.	Not reported	Resolvin D1 or D2 (100 ng/kg), or vehicle every 3 days, commencing 1) 3 days before elastase perfusion or 2) 3 days after elastase perfusion.	[86]
2) Male ApoE <sup>-/-</sup> mice	AngII, 1000 ng/kg/min for 4 weeks	High fat diet	Resolvin D2 (100 ng/kg), or vehicle every 3 days.	
Male C57BL/6 and ApoE <sup>-/-</sup> C57BL/6 background mice	AngII, 1000 ng/kg/min for 2 days	Low LC n-3 PUFA (0% EPA, 0% DHA, 0.14% total LC n-3 PUFA). High LC n-3 PUFA (0.07% EPA, 0.3% DHA, 0.7% total LC n-3 PUFA).	FA diet commencing Week 3 for 8 weeks, AngII for 2 days, commencing week 11.	[94]
Male ApoE <sup>-/-</sup> C57BL/6 background mice	AngII, 1000 ng/kg/min for 2 weeks. Saline control.	Low LC n-3 PUFA (0% EPA, 0% DHA, 0.14% total LC n-3 PUFA). High LC n-3 PUFA (0.07% EPA, 0.3% DHA, 0.7% total LC n-3 PUFA).	FA diet commencing week 3-4 for 8 weeks, AngII for 2 weeks, commencing week 11-12.	[95]
Male ApoE <sup>-/-</sup> C57BL/6 background mice	AngII, 1000 ng/kg/min for 4 weeks. Saline control.	Standard rodent chow with or without 5% wt/wt EPA daily or 5% wt/wt DHA daily, for 6 weeks.	1) AngII or Saline for 4 weeks, commencing week 12. 2) FA diet commencing week 10 for 6 weeks + AngII for 4 weeks, commencing week 12.	[96]

		Standard rodent chow with or without 5% wt/wt EPA daily or 5% wt/wt DHA daily, for 3 weeks.	1) AngII for 4 weeks, commencing week 12. 2) AngII for 4 weeks, commencing week 12 + FA diet commencing week 13 for 3 weeks.	
Male BALB/cA mice	Periaortic CaCl <sub>2</sub> (0.5 mol/L, 15 min).	Fish meal-free diet. Fish meal-free diet supplemented with 10% wt/wt EPA.	FA diet commencing week 7-9 for 4 days, CaCl <sub>2</sub> intervention, followed by continuation of the FA diet for 6 weeks.	[97]
Male Sprague-Dawley rats	Aortic hypoperfusion for 4 weeks.	Fish oil (28.8% EPA, 14.7% DHA); 1.2 g/kg/day, or triolein (1.2 g/kg/day).	FA diet commencing week 7, for 1 week, followed by aortic ligation and continuation of the FA diet for 4 weeks.	[98]

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AAA, abdominal aortic aneurysm; LC n-3 PUFA, long chain omega-3 polyunsaturated fatty acid; EPA, eicosapentaenoic acid; DHA, docosahexaenoic acid; ApoE<sup>-/-</sup>, apolipoprotein E-deficient; AngII, angiotensin II.