Dementia Risk Reduction in Primary Care: Research design, progress and challenges Kaarin J Anstey^{1,8,9}, Sarang Kim¹, Mitchell McMaster¹, Susan Torres², Kay L Cox³, Nicola Lautenschlager⁴, George W Rebok⁵, Dimity Pond⁶, Catherine D'Este⁷, Ian McRae¹, Nicolas Cherbuin¹



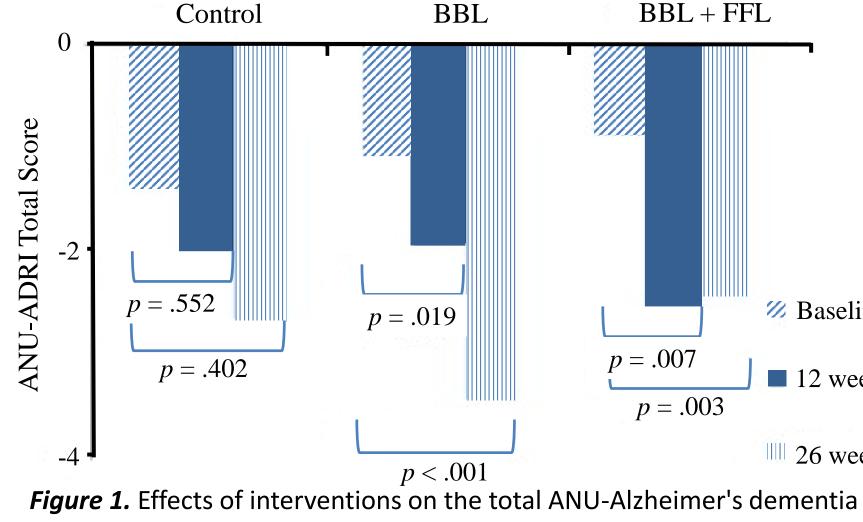


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Background

- Translation of dementia risk reduction knowledge into interventions that can be applied in the real world is a challenge.
- \blacktriangleright Results from our previous study:
 - Developed Body-Brain Life (BBL), an online dementia risk reduction program; and
 - showed BBL improved protective factors over a 6-month period (Anstey et al., 2015; see Figure 1).
- > Study aims:
 - To implement BBL in primary care; and
 - Strengthen key risk reduction components by introducing clinical advice for physical activity and diet.



risk index (ANU-ADRI), the primary outcome (Anstey et al., 2015). Decrease in ANU-ADRI scores indicate risk reduction. FTF, face to face group sessions.

Week 0

Methods

- Primary care setting which had existing practice-based Lifestyle Management Program (LMP)
- > Participants
 - 125 patients with diagnosed chronic medical condition
 - GPs deemed LMP program would be beneficial
- Pragmatic single blind RCT (see Table 1 and Figure 2)

Table 1. Trial conditions and sample sizes

uble 1. Inal conditions and sample sizes				
Intervention	LMP	Active control	Week 1	Online
Body Brain Life-General Practice (BBL-GP) conducted over 12 weeks	6-week Lifestyle Management Program (originally 12 weeks, reduced after project was funded)	12-week email only program providing general health information	Week 7	modules and revision
n = 42	n = 41	n = 41	Week 13	Immediate follow up
 Primary outcome dementia risk (modified ANU-ADRI-Short Form) Secondary outcomes 				Week 18 follow up
 cognitive function physical activity (IPAQ and actigraph; depression (CES-D) quality of life for cost evaluation (SF-12) 				Week 36 follow up
 Framingham coronal the AUSDrisk assess diet quality (Australi 	Week 62	Week 62 follow up		

- diet quality (Australian Recommended Food Score)
- sleep quality (Pittsburgh Sleep Quality Index)

BBL-GP

sessions

PA and Diet

References: Anstey, K. J., Bahar-Fuchs, A., Herath, P., Kim, S., Burns, R., Rebok, G. W., & Cherbuin, N. (2015). Body brain life: A randomized controlled trial of an online dementia risk reduction intervention in middle-aged adults at risk of Alzheimer's disease. Alzheimer's & Dementia: Translational Research & Clinical Interventions, 1(1), 72-80.

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