

**Sporting Activity and the Risk of Atrial Fibrillation in Athletes: A Systematic Review and Meta-Analysis.**

Newman, W<sup>1</sup>., Parry-Williams, G<sup>2</sup>., Wiles, J.D<sup>1</sup>., Edwards, J.J<sup>1</sup>., Hulbert, S<sup>3</sup>., Kipourou, K<sup>4</sup>., Papadakis, M<sup>2</sup>., Sharma, R<sup>4</sup>, O'Driscoll, J.M.<sup>1,4</sup>

<sup>1</sup>School of Human and Life Sciences, Canterbury Christ Church University, Kent, CT1 1QU

<sup>2</sup>Cardiology Clinical Academic Group, St George's University of London, London, UK.

<sup>3</sup>School of Psychology, Politics and Sociology, Canterbury Christ Church University, Kent, CT1 1QU

<sup>4</sup>Department of Cardiology, St George's Healthcare NHS Trust, Blackshaw Road, Tooting, London, SW17 0QT.

Correspondence to Dr Jamie O'Driscoll, School of Human and Life Sciences, Canterbury Christ Church University, North Holmes Road, Canterbury, Kent, CT1 1 QU. Email: [jamie.odriscoll@canterbury.ac.uk](mailto:jamie.odriscoll@canterbury.ac.uk); Telephone: 01227782711.

## Supplementary File

Table S1: Adjusted status of extracted odds ratios

Study Name	Adjusted status	Adjusted variables
Aizer et al <sup>1</sup>	Adjusted	Age, treatment assignment (aspirin or placebo, -carotene or placebo), BMI, diabetes, hypertension, hyperlipidaemia, parental history of MI, alcohol, smoking, fish consumption, multivitamin, vitamin C, vitamin E, LVH, CHF, CVD.
Andersen et al <sup>2</sup>	Adjusted	Age, occupation, and education level.
Baldesberger et al <sup>3</sup>	Unadjusted	N/A
Calvo et al <sup>4</sup>	Unadjusted	N/A
Claessen et al <sup>5</sup>	Unadjusted	N/A
Elosua et al <sup>6</sup>	Adjusted	Hypertension, age.
Karjalainen et al <sup>7</sup>	Unadjusted	N/A
Molina et al <sup>8</sup>	Adjusted	Age, systolic and diastolic blood pressure.
Mont et al <sup>9</sup>	Unadjusted	N/A
Myrstad et al <sup>10</sup>	Adjusted	CHD, hypertension, diabetes, age, height, BMI, education level, alcohol, smoking habits, leisure time physical activity.
Myrstad et al <sup>11</sup>	Adjusted	Age, sex, BMI, concomitant CVD, stroke, diabetes, number of race participations.
Schreiner et al <sup>12</sup>	Unadjusted	N/A
Van Buuren et al <sup>13</sup>	Unadjusted	N/A

Note: BMI, body mass index; MI, myocardial infarction; LVH, left ventricular hypertrophy; CHF, congestive heart failure; CVD, cardiovascular disease; CHD, coronary heart disease; N/A, not applicable.

Where ORs were not reported, they were calculated via the CMA in-built algorithm below:

- A = Developed AF Athletes
- B = Developed AF Controls
- C = Did Not Develop AF Athletes
- D = Did Not Develop AF Controls

$$\text{LogOddsRatio} = \text{Log}((A * D) / (B * C))$$

$$\text{LogOddsVariance} = (1 / A + 1 / B + 1 / C + 1 / D)$$

$$\text{LogOddsSE} = \text{Sqr}(\text{LogOddsVariance})$$

$$\text{OddsRatio} = \text{Exp}(\text{LogOddsRatio})$$

$$\text{LogOddsRatio} = \text{Log}((83 * 72) / (24 * 37)) = 1.907$$

$$\text{LogOddsVariance} = (1/83 + 1/24 + 1/37 + 1/72) = 0.095$$

$$\text{LogOddsSE} = \text{Sqr}(0.095) = 0.308$$

$$\text{OddsRatio} = \text{Exp}(1.907) = 6.730$$

Table S2: Meta-analysis output table displaying weightings, odds ratios, fixed and random effects.

Study Name	Odds Ratio	Lower Limit	Upper Limit	Z Value	P value	Weight (random)
Aizer et al <sup>1</sup>	1.200	1.021	1.411	2.207	0.027	12.976
Andersen et al <sup>2</sup>	1.200	0.930	1.549	1.399	0.162	12.475
Baldesberger et al <sup>3</sup>	14.381	0.792	261.055	1.802	0.071	1.348
Calvo et al <sup>4</sup>	3.880	1.548	9.723	2.893	0.004	7.046
Claessen et al <sup>5</sup>	4.778	2.270	10.054	4.120	0.000	8.410
Elosua et al <sup>6</sup>	3.100	1.376	6.984	2.730	0.006	7.854
Karjalainen et al <sup>7</sup>	5.833	1.290	26.378	2.291	0.022	3.912
Molina et al <sup>8</sup>	7.448	1.591	34.872	2.549	0.011	3.787
Mont et al <sup>9</sup>	6.730	3.683	12.298	6.198	0.000	9.632
Myrstad et al <sup>10</sup>	1.208	0.898	1.625	1.248	0.212	12.201
Myrstad et al <sup>11</sup>	1.054	0.819	1.355	0.408	0.683	12.499
Schreiner et al <sup>12</sup>	4.798	1.772	12.991	3.085	0.002	6.506
Van Buuren et al <sup>13</sup>	21.894	1.213	395.094	2.091	0.037	1.353
Random	2.460	1.725	3.509	4.970	0.000	

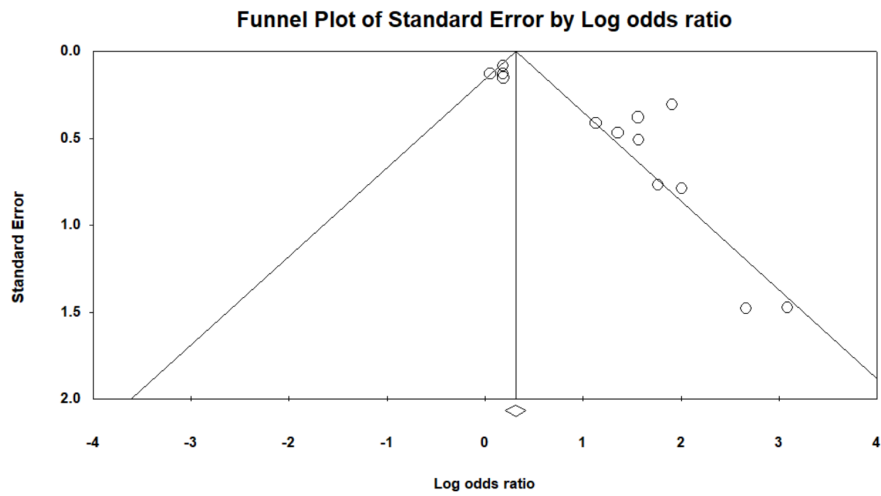


Figure S1: Study quality funnel plot with standard error vs logarithmic odds ratio.

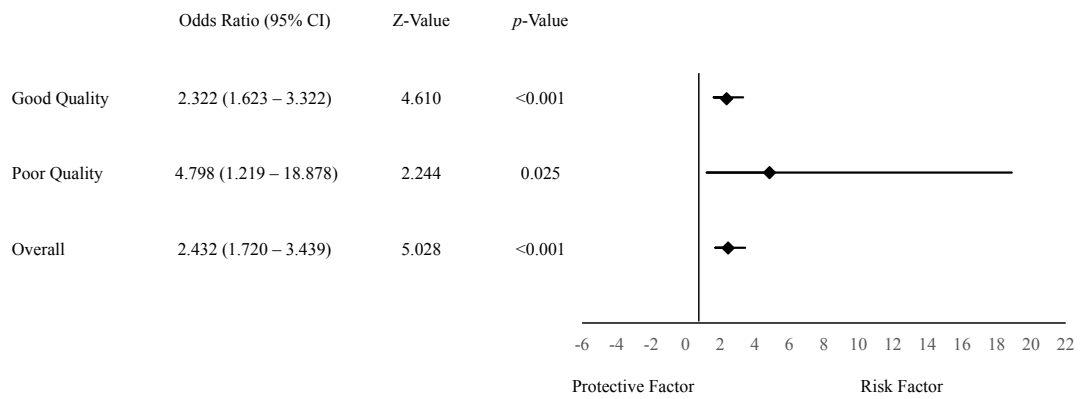


Figure S2: Subgroup analysis of study quality and the risk of atrial fibrillation.

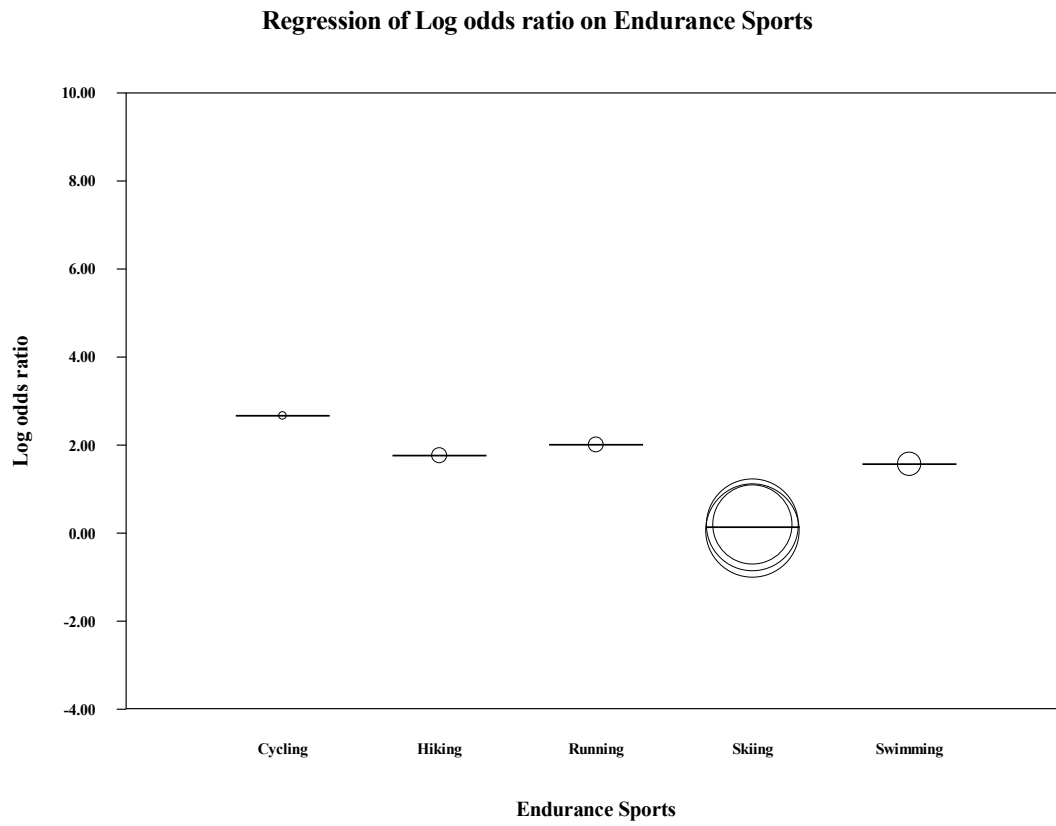


Figure S3: Endurance sport meta-regression bubble plot outputs.

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