Online Resource 2: Sensitivity Analyses

Correlates and determinants of cardiorespiratory fitness in adults: a systematic review

Johannes Zeiher*, Katherine J. Ombrellaro, Nita Perumal, Thomas Keil, Gert B. M. Mensink, Jonas D. Finger

* Corresponding author:

Johannes Zeiher
Unit of Health Behaviour
Department of Epidemiology and Health Monitoring
Robert Koch Institute
General-Pape-Straße 62-66
12101 Berlin, Germany
Email: zeiherj@rki.de

Tab OR2.1: Analyses of review results regarding the association of <u>education</u> and cardiorespiratory fitness according to sex

	Positive	Negative	Null	Total
Women	2	0	2	4
Men	3	0	2	5
Mixed	1	0	0	1
Total	6	0	4	10

Fisher's exact: p = 1.000

Tab OR2.2: Analyses of review results regarding the association of <u>education</u> and cardiorespiratory fitness (CRF) according to CRF measure

	Positive	Negative	Null	Total
Direct Vo2max	0	0	2	2
Indirect Vo2max	4	0	3	7
Other	0	0	1	1
Total	4	0	6	10

Fisher's exact: p = 0.467

Tab OR2.3: Analyses of review results regarding the association of <u>education</u> and cardiorespiratory fitness according to test machine

	Positive	Negative	Null	Total
Treadmill	2	0	3	5
Ergometer	2	0	3	5
Total	4	0	6	10

Fisher's exact: p = 1.000

Tab OR2.4: Analyses of review results regarding the association of <u>age</u> and cardiorespiratory fitness according to sex

	Positive	Negative	Null	Total
Women	0	13	2	15
Men	1	19	1	21
Mixed	1	6	0	7
Total	2	38	3	43

Fisher's exact: p = 0.522

Tab OR2.5 Analyses of review results regarding the association of <u>age</u> and cardiorespiratory fitness (CRF) according to CRF measure

	Positive	Negative	Null	Total
Direct Vo2max	1	26	0	27
Indirect Vo2max	0	6	1	7
Other	1	6	2	9
Total	2	38	3	43

Fisher's exact: p = 0.055

Tab OR2.6: Analyses of review results regarding the association of <u>age</u> and cardiorespiratory fitness according to test machine

	Positive	Negative	Null	Total
Treadmill	1	23	2	26
Ergometer	1	15	1	17
Total	2	38	3	43

Fisher's exact: p = 1.000

Tab OR2.7: Analyses of review results regarding the association of <u>body mass index</u> and cardiorespiratory fitness according to sex

	Positive	Negative	Null	Total
Women	0	9	1	10
Men	2	9	2	13
Mixed	1	0	0	1
Total	3	18	3	24

Fisher's exact: p = 0.215

Tab OR2.8: Analyses of review results regarding the association of <u>body mass index</u> and cardiorespiratory fitness (CRF) according to CRF measure

	Positive	Negative	Null	Total
Direct Vo2max	1	8	0	9
Indirect Vo2max	0	3	3	6
Other	2	5	0	7
Total	3	16	3	22

Fisher's exact: p = 0.034

Tab OR2.9: Analyses of review results regarding the association of <u>body mass index</u> and cardiorespiratory fitness according to test machine

	Positive	Negative	Null	Total
Treadmill	0	13	1	14
Ergometer	3	5	2	10
Total	3	16	3	24

Fisher's exact: p = 0.091

Tab OR2.10 Analyses of review results regarding the association <u>of body mass index</u> and cardiorespiratory fitness (CRF) according to body weight adjustment of CRF measure

	Positive	Negative	Null	Total
CRF adj. for weight	2	13	3	18
CRF not adj. for weight	1	5	0	6
Total	3	18	3	24

Fisher's exact: p = 0.795

Tab OR2.11: Analyses of review results regarding the association of <u>physical activity index</u> and cardiorespiratory fitness according to sex

	Positive	Negative	Null	Total
Women	5	0	2	7
Men	8	0	3	11
Mixed	1	0	0	1
Total	14	0	5	19

Fisher's exact: p = 1.000

Tab OR2.12 Analyses of review results regarding the association of <u>physical activity index</u> and cardiorespiratory fitness (CRF) according to CRF measure

	Positive	Negative	Null	Total
Direct Vo2max	5	0	5	10
Indirect Vo2max	0	0	0	0
Other	9	0	0	3
Total	14	0	5	19

Fisher's exact: p = 0.033

Tab OR2.13: Analyses of review results regarding the association of <u>physical activity index</u> and cardiorespiratory fitness according to test machine

	Positive	Negative	Null	Total
Treadmill	12	0	4	16
Ergometer	2	0	1	3
Total	14	0	5	19

Fisher's exact: p = 1.000

Tab OR2.14: Analyses of review results regarding the association of <u>smoking</u> and cardiorespiratory fitness according to sex

	Positive	Negative	Null	Total
Women	1	4	3	8
Men	0	8	4	12
Mixed	0	1	1	2
Total	1	13	8	22

Fisher's exact: p = 0.762

Tab OR2.15 Analyses of review results regarding the association of <u>smoking</u> and cardiorespiratory fitness (CRF) according to CRF measure

	Positive	Negative	Null	Total
Direct Vo2max	0	5	3	8
Indirect Vo2max	1	0	3	4
Other	0	8	2	10
Total	1	13	8	22

Fisher's exact: p = 0.038

Tab OR2.16: Analyses of review results regarding the association of <u>smoking</u> and cardiorespiratory fitness according to test machine

	Positive	Negative	Null	Total
Treadmill	1	9	6	16
Ergometer	0	4	2	6
Total	1	13	8	22

Fisher's exact: p = 1.000

Tab OR2.17: Analyses of review results regarding the association of <u>waist circumference</u> and cardiorespiratory fitness according to sex

	Positive	Negative	Null	Total
Women	0	4	1	5
Men	0	5	0	5
Mixed	0	0	0	0
Total	0	9	1	10

Fisher's exact: p = 0.500

Tab OR2.18 Analyses of review results regarding the association of <u>waist circumference</u> and cardiorespiratory fitness (CRF) according to CRF measure

	Positive	Negative	Null	Total
Direct Vo2max	0	4	0	4
Indirect Vo2max	0	3	1	4
Other	0	0	0	0
Total	0	7	1	8

Fisher's exact: p = NA < 10 samples. Two samples did not report CRF measurement.

Tab OR2.19: Analyses of review results regarding the association of <u>waist circumference</u> and cardiorespiratory fitness according to test machine

	Positive	Negative	Null	Total
Treadmill	0	5	1	6
Ergometer	0	4	0	4
Total	0	9	1	10

Fisher's exact: p = 0.400