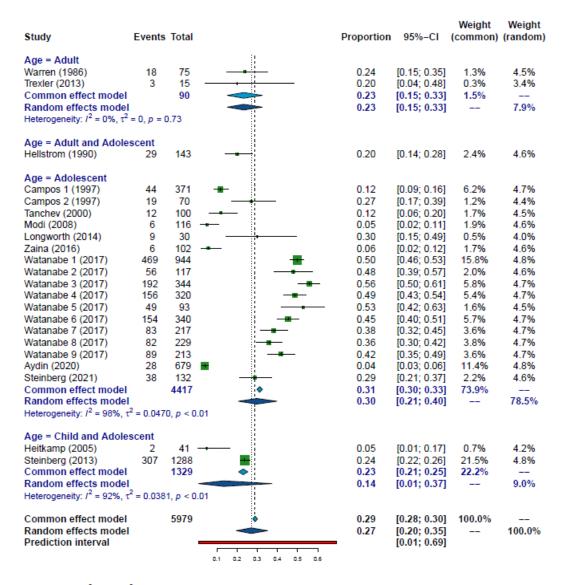
Weight

Weight

## Appendix 5. Forest plots of subgroup analyses

Study	Events	Total	Proportion	95%-CI	(common)	(random)
Gender = Female			şi.			
Warren (1986)	18	75	0.24	[0.15; 0.35]	1.3%	4.5%
Tanchev (2000)	12	100	0.12	[0.06; 0.20]		4.5%
Heitkamp (2005)	2	41	0.05	[0.01; 0.17]		4.2%
Trexler (2013)	3	15	0.20	[0.04; 0.48]		3.4%
Steinberg (2013)	307	1288	0.24	[0.22; 0.26]		4.8%
Longworth (2014)	9	30	0.30	[0.15; 0.49]		4.0%
Watanabe 1 (2017)	469	944	0.50	[0.46; 0.53]		4.8%
Watanabe 2 (2017)	56	117	0.48	[0.39; 0.57]	2.0%	4.6%
Watanabe 3 (2017)	192	344	<del>-■</del> 0.56	[0.50; 0.61]	5.8%	4.7%
Watanabe 4 (2017)	156	320	_■ 0.49	[0.43; 0.54]	5.4%	4.7%
Watanabe 5 (2017)	49	93	- 0.53	[0.42; 0.63]	1.6%	4.5%
Watanabe 6 (2017)	154	340	-■ 0.45	[0.40; 0.51]	5.7%	4.7%
Watanabe 7 (2017)	83	217	0.38	[0.32; 0.45]	3.6%	4.7%
Watanabe 8 (2017)	82	229	0.36	[0.30; 0.42]	3.8%	4.7%
Watanabe 9 (2017)	89	213	<del></del>	[0.35; 0.49]	3.6%	4.7%
Steinberg (2021)	38	132	0.29	[0.21; 0.37]	2.2%	4.6%
Common effect mode	I	4498	♦ 0.38	[0.36; 0.39]	75.2%	
Random effects mode			0.35	[0.27; 0.43]		72.3%
Heterogeneity: $I^2 = 96\%$ ,	$\tau^2 = 0.026$	34, p < 0.				
Gender = Both gender	rs					
Hellstrom (1990)	29	143	0.20	[0.14; 0.28]	2.4%	4.6%
Campos 1 (1997)	44	371	0.12	[0.09; 0.16]		4.7%
Campos 2 (1997)	19	70	0.27	[0.17; 0.39]	1.2%	4.4%
Modi (2008)	6	116	0.05	[0.02; 0.11]	1.9%	4.6%
Zaina (2016)	6	102	0.06	[0.02; 0.12]	1.7%	4.6%
Aydin (2020)	28	679	0.04	[0.03; 0.06]	11.4%	4.8%
Common effect model	ı	1481	0.08	[0.07; 0.09]		
Random effects mode			0.11	[0.05; 0.19]		27.7%
Heterogeneity: $I^2 = 92\%$ , $\tau^2 = 0.0170$ , $\rho < 0.01$						
Common effect model		5979	0.29	[0.28; 0.30]	100.0%	
Random effects mode			0.27	[0.20; 0.35]		100.0%
Prediction interval			0.2.	[0.01; 0.69]		
rediction interval				[0.01, 0.00]		
			0.3 0.4 0.5 0.8			
Heterogeneity: $I^2 = 98\%$ , $\tau^2 = 0.0417$ , $p < 0.01$						
Heterogenerty: $I' = 98\%$ , $\tau' = 0.0417$ , $p < 0.01$ Test for subgroup differences (fixed effect): $\chi_1^2 = 620.38$ , df = 1 ( $p < 0.01$ )						
Test for subgroup differen	ces (fixed	effect): )	or = 1 (p < 0.01)			
Test for subgroup differences (random effects): $\chi_1^2 = 17.36$ , df = 1 ( $\rho < 0.01$ )						

Figure 1. Subgroup analysis for gender



Heterogeneity:  $I^2=98\%$ ,  $\tau^2=0.0417$ ,  $\rho<0.01$ Test for subgroup differences (fixed effect):  $\chi^2_3=42.21$ , df = 3 ( $\rho<0.01$ ) Test for subgroup differences (random effects):  $\chi^2_3=3.44$ , df = 3 ( $\rho=0.33$ )

Figure 2. Subgroup analysis for age

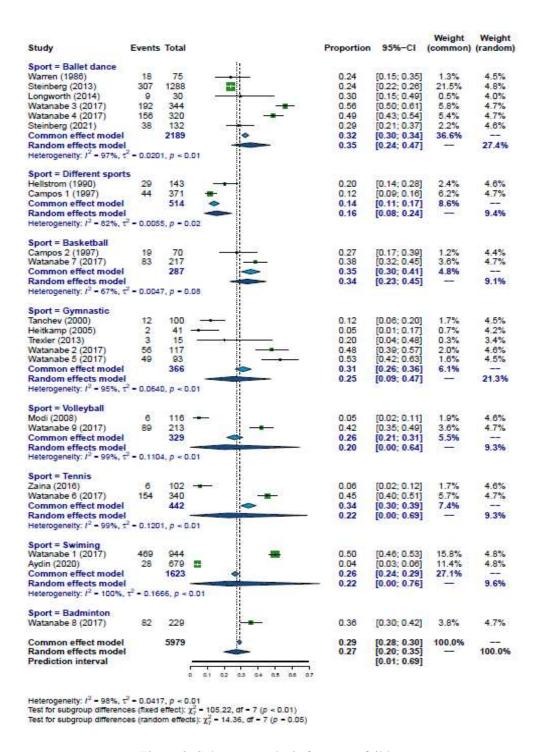
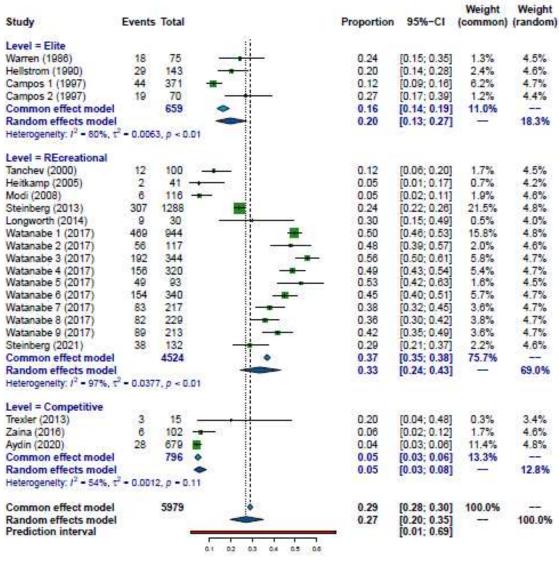


Figure 3. Subgroup analysis for sports feilds



Heterogeneity:  $l^2$  = 98%,  $\tau^2$  = 0.0417,  $\rho$  < 0.01 Test for subgroup differences (fixed effect):  $\chi^2_2$  = 589.05, df = 2 ( $\rho$  < 0.01) Test for subgroup differences (random effects):  $\chi^2_2$  = 44.88, df = 2 ( $\rho$  < 0.01)

Figure 4. Subgroup analysis for levels of sports activities