

SUPPLEMENTAL MATERIAL

Data S1. Sample STATA dose-response code - SSBs intake and incident hypertension.

```
clear

version 15

import excel "[usedataset]", sheet("forStata") firstrow case(lower)
sort id quintile
list rr lci uci case id doseinml quintile
tab id

capture drop lnrr
capture drop lnse

gen type=2
gen lnrr=log(rr)
gen lnuci=log(uci)
gen lnlci=log(lci)
gen lnse =((lnuci-lnlci)/(2*invnorm(0.975)))
gen dose=doseinml

* scale check
sum dose, d

* linear DR
drmeta lnrr dose, data(py case) id(id) type(type) se(lnse) eform reml
lincom dose*355, eform //per 355 ml score
return list
global b0=r(estimate)
global b1: display %4.2f r(estimate)
global lci1: display %04.2f r(lb)
global uci1: display %04.2f r(ub)
global p1: display %04.3f r(p)
if $p1<0.0001 {
global p1="<0.0001"
else {
global p1="= $p1"
}
}
global captionlinear= "RR{sub:per 355 ml/per-serving} $b1 [95% CI $lci1, $uci1] {&bull} P{sub:linear} = $p1"
drmeta_gof //goodness of fit for linear - Deviance=59.5 [lower better], R2=0.66 [higher better]
drmeta lnrr dose, data(py case) id(id) type(type) se(lnse) eform reml
lincom dose*1, //per 1 score
global eb1=r(estimate)
display $eb1

* non-linear using splines
capture drop doses1
capture drop doses2
sum dose, d
mkspline doses = dose, nk(3) cubic displayknots
mat knots = r(knots)

*departure from linearity
drmeta lnrr doses1 doses2 , data(py case) id(id) type(type) se(lnse) reml
testparm doses2 //wald test test
global pdep0 r(p)
global pdep1: display %5.3f $pdep0
display $pdep1 //
global pnl ="P-value{sub:non-linearity}s = $pdep1"

* dose estimate non-linearity
```

```

global dl=355 //dose to show RR for 355 ml
drmeta lnrr doses1 doses2 , data(py case) id(id) type(type) se(lnse) reml
drmeta_graph, dose($dl) ref(0) matk(knots) eform list nodraw
matrix r=r(E)
global b$dl: display %4.2f r["r1","_xb"]
global lci$dl: display %04.2f r["r1","_lb"]
global uci$dl: display %04.2f r["r1","_ub"]
global rr$dl= "RR{sub:$dl g} ${b$dl} [${lci$dl}, ${uci$dl}]"
display "${rr$dl}"

global captionnl="$pnl {&bull} {it:${rr$dl}}"

tabstat rr dose, stat(min max)

global xtitle="xtitle(Consumption (g/day))"
global doserange= "dose(0(5)1400)"
global ytitle="ytitle(Relative Risk)"
global yscale="yscale(range(0.9 1.4)) ylabel(0.9 1 1.2 1.4, format(%5.2g))"
global yline="yline(1, lcol(red) lw(thick) lp(.))"
global title="t1title(Sugar-sweetened beverages)"

* non-linear with linear line with bubbles
drmeta lnrr doses1 doses2 , data(py case) id(id) type(type) se(lnse) eform reml
drmeta_graph, ref(0) matk(knots) eform addplot($eb1*d) $xtitle $doserange $ytitle $yscale $yline $title
graph addplot scatter rr dose if quintile==1, mfcolor(gs13) mlcolor(gs10) below jitter(2) $yscale
graph addplot scatter rr dose[w=1/lnse^2] if quintile!=1, mcolor(gs15) ms(circle) below $yscale
note("$captionlinear" " " "$captionnl", size(vsmall) color(gs1) box)
graph export "ssb-spline-1a.pdf", replace

* non-linear with linear line without bubbles
drmeta lnrr doses1 doses2 , data(py case) id(id) type(type) se(lnse) reml
drmeta_graph , ref(0) matk(knots) eform addplot($eb1*d) note("$captionlinear" " " "$captionnl",
size(vsmall) color(gs1) box) $xtitle $doserange $ytitle $yscale $yline $title
graph export "ssb-spline-1b.pdf", replace

```

Data S2. Dose-response raw data.

Study - Cohort	Dietary Assessment	Exposure (median)	Relative Risk (95% CI)
SSBs			
Barrio-Lopez et al., 2013 – SUN ¹	Validated FFQ	0 ml/d	1.00 (Reference)
		165 ml/d	1.30 (1.10, 1.80)
		330 ml/d	1.60 (1.30, 2.10)
Cohen et al., 2012 – NHS ²	Validated FFQ	12 ml/d	1.00 (Reference)
		29 ml/d	1.02 (0.99, 1.04)
		203 ml/d	1.04 (1.01, 1.07)
		355 ml/d	1.12 (1.08, 1.17)
Cohen et al., 2012 – NHSII ²	Validated FFQ	12 ml/d	1.00 (Reference)
		29 ml/d	1.00 (0.96, 1.04)
		203 ml/d	1.07 (1.03, 1.11)
		355 ml/d	1.17 (1.11, 1.23)
Cohen et al., 2012 – HPFS ²	Validated FFQ	12 ml/d	1.00 (Reference)
		29 ml/d	0.97 (0.93, 1.02)
		203 ml/d	1.04 (1.00, 1.10)
		355 ml/d	1.06 (0.99, 1.14)
Dhingra et al., 2007 – FOC ³	Validated FFQ	0 ml/d	1.00 (Reference)
		355 ml/d	1.12 (0.94, 1.34)
		533 ml/d	1.14 (0.97, 1.32)
		710 ml/d	1.15 (0.92, 1.42)
Duffey et al., 2010 – CARDIA ⁴	Validated SFFQ	0 ml/d 337 ml/d	1.00 (Reference) 1.06 (0.97, 1.16)
Kang et al., 2017 – KoGES ⁵	Validated SFFQ	0 ml/d	1.00 (Reference)
		36 ml/d	0.93 (0.83, 1.04)
		71 ml/d	1.28 (1.12, 1.48)
		143 ml/d	1.55 (1.18, 2.03)
Kwak et al., 2018 – KoGES ⁶	Validated SFFQ	0 ml/d	1.00 (Reference)
		58 ml/d	1.04 (0.87, 1.24)
		208 ml/d	1.12 (0.95, 1.33)
		875 ml/d	1.21 (1.02, 1.45)
Mirmiran et al. 2015 – TLGS ⁷	Validated SFFQ	1 ml/d	1.00 (Reference)
		9 ml/d	0.80 (0.27, 2.33)
		33 ml/d	1.35 (0.50, 3.51)
		100 ml/d	2.59 (1.05, 5.97)
Sayon-Orea et al., 2015 – SUN ⁸	Validated SFFQ	0 ml/d	1.00 (Reference)
		99 ml/d	1.07 (0.94, 1.22)
		198 ml/d	1.34 (1.09, 1.65)
Weng et al., 2013 – ARIC ⁹	Validated FFQ	0 ml/d	1.00 (Reference)
		178 ml/d	1.11 (1.01, 1.23)
		355 ml/d	1.02 (0.90, 1.16)
Winkelmayer et al., 2005 – NHS ¹⁰	Validated FFQ	0 ml/d	1.00 (Reference)
		355 ml/d	1.09 (0.98, 1.22)
		888 ml/d	1.11 (0.95, 1.30)
		1420 ml/d	1.44 (0.98, 2.11)
Winkelmayer et al., 2005 – NHSII ¹⁰	Validated FFQ	0 ml/d	1.00 (Reference)
		355 ml/d	1.13 (1.03, 1.24)
		888 ml/d	1.24 (1.11, 1.38)
		1420 ml/d	1.28 (1.01, 1.62)
Fruit			
Auerbach et al., 2017 – WHI ¹¹	Validated SFFQ	26 g/d 61 g/d	1.00 (Reference) 1.00 (0.99, 1.04)

		79 g/d 140 g/d 210 g/d	1.01 (0.98, 1.04) 1.00 (0.97, 1.03) 1.02 (0.98, 1.04)
Borgi et al., 2016 – NHS ¹²	Validated FFQ	50 g/d 69 g/d 88 g/d 219 g/d 350 g/d	1.00 (Reference) 0.97 (0.93, 1.01) 0.95 (0.92, 0.99) 0.94 (0.91, 0.98) 0.96 (0.88, 1.03)
Borgi et al., 2016 – NHSII ¹²		50 g/d 69 g/d 88 g/d 219 g/d 350 g/d	1.00 (Reference) 1.03 (0.99, 1.07) 0.97 (0.94, 1.07) 0.91 (0.87, 0.95) 0.91 (0.81, 1.02)
Borgi et al., 2016 – HPFS ¹²		50 g/d 69 g/d 88 g/d 219 g/d 350 g/d	1.00 (Reference) 0.95 (0.89, 1.00) 0.92 (0.88, 0.97) 0.92 (0.87, 0.97) 0.88 (0.81, 0.97)
Kim et al. J Acad Nutr, 2017 – KoGES ¹³ (men)	Validated SFFQ	0 g/d 150 g/d 300 g/d 400 g/d	1.00 (Reference) 0.58 (0.45, 0.75) 0.44 (0.34, 0.57) 0.44 (0.32, 0.60)
Kim et al. J Acad Nutr, 2017 – KoGES ¹³ (women)		0 g/d 150 g/d 300 g/d 400 g/d	1.00 (Reference) 0.71 (0.54, 0.95) 0.44 (0.33, 0.58) 0.33 (0.24, 0.45)
Koochakpoor et al., 2018 – TLGS ¹⁴	Validated SFFQ	0 g/d 80 g/d 200 g/d 320 g/d	1.00 (Reference) 0.83 (0.68, 1.40) 0.97 (0.58, 1.77) 0.89 (0.63, 1.30)
Nunez-Cordoba et al., 2009 – SUN ¹⁵	Validated SFFQ	160 g/d 248 g/d 408 g/d 568 g/d 640 g/d	1.00 (Reference) 0.86 (0.66, 1.13) 0.94 (0.70, 1.27) 1.02 (0.72, 1.27) 0.85 (0.59, 1.22)
Psaltopoulou et al., 2004 – EPIC ¹⁶	Validated SFFQ	106 g/d 318 g/d	1.00 (Reference) 0.61 (0.45, 0.83)
Steffen et al., 2005 – CARDIA ¹⁷	Validated SFFQ	2 g/d 31 g/d 61 g/d 105 g/d 131 g/d	1.00 (Reference) 0.88 (0.72, 1.06) 0.83 (0.68, 1.01) 0.85 (0.69, 1.04) 0.75 (0.60, 0.94)
Tsubota-Utsugi et al., 2011 – Ohasama ¹⁸	Validated FFQ	38 g/d 51 g/d 82 g/d 100 g/d	1.00 (Reference) 0.73 (0.46, 1.09) 0.78 (0.50, 1.16) 0.51 (0.29, 0.81)
Wang et al., 2012 – WHS ¹⁹	Validated FFQ	44 g/d 88 g/d 153 g/d 219 g/d 263 g/d	1.00 (Reference) 0.99 (0.92, 1.06) 0.98 (0.90, 1.06) 0.98 (0.91, 1.06) 0.95 (0.88, 1.04)
Weng et al., 2013 – ARIC ⁹	Validated FFQ	89 g/d 123 g/d 153 g/d 181 g/d	1.00 (Reference) 1.06 (0.94, 1.19) 0.98 (0.87, 1.10) 1.08 (0.96, 1.22)

		225 g/d	1.06 (0.93, 1.20)
Yogurt			
Alonso et al., 2009 – ARIC ²⁰	Validated FFQ	2 g/d 74 g/d 319 g/d	1.00 (Reference) 1.01 (0.89, 1.14) 1.11 (0.86, 1.41)
Buendia et al., 2018 – NHS ²¹	Validated SFFQ	7 g/d 22 g/d 53 g/d 123 g/d 175 g/d	1.00 (Reference) 1.00 (0.97, 1.02) 0.99 (0.96, 1.01) 0.95 (0.92, 0.98) 0.87 (0.81, 0.94)
Buendia et al., 2018 – NHSII ²¹		7 g/d 22 g/d 53 g/d 123 g/d 175 g/d	1.00 (Reference) 0.96 (0.93, 1.00) 0.95 (0.92, 0.98) 0.93 (0.90, 0.97) 0.89 (0.82, 0.96)
Buendia et al., 2018 – HPFS ²¹		7 g/d 22 g/d 53 g/d 123 g/d 175 g/d	1.00 (Reference) 0.98 (0.93, 1.02) 0.94 (0.89, 0.99) 0.95 (0.89, 1.01) 1.01 (0.89, 1.15)
Engberink et al., 2009 – MORGEN ²²		Validated SFFQ	12 g/d 29 g/d 70 g/d 122 g/d
Kim et al., Brit J Nutr, 2017 – KoGES ²³	Validated SFFQ	0 g/d 20 g/d 49 g/d 78 g/d	1.00 (Reference) 0.67 (0.58, 0.76) 0.71 (0.62, 0.81) 0.71 (0.59, 0.85)
Steffen et al., 2005 – CARDIA ²⁴	Validated SFFQ	4 g/d 11 g/d 18 g/d	1.00 (Reference) 1.00 (0.83, 1.20) 0.88 (0.75, 1.04)
Wang et al., 2008 – WHS ¹⁷	Validated SFFQ	8 g/d 16 g/d 88 g/d 193 g/d	1.00 (Reference) 0.95 (0.90, 1.01) 0.95 (0.89, 1.01) 0.93 (0.81, 1.07)
Wang et al., 2015 – FHS ²⁵	Validated FFQ	0 g/d 227 g/d	1.00 (Reference) 0.95 (0.90, 0.99)
Dairy Desserts			
Alonso et al., 2009 – ARIC ¹⁷	Validated FFQ	14 ml/d 273 ml/d 533 ml/d	1.00 (Reference) 0.91 (0.83, 0.99) 0.88 (0.74, 1.04)
Steffen et al., 2005 – CARDIA ²⁰	Validated SFFQ	4 ml/d 21 ml/d 40 ml/d 72 ml/d 93 ml/d	1.00 (Reference) 0.81 (0.67, 0.98) 0.87 (0.71, 1.05) 0.79 (0.65, 0.97) 0.74 (0.60, 0.92)
Wang et al., 2008 – WHS ²²	Validated SFFQ	8 ml/d 17 ml/d 89 ml/d 196 ml/d 250 ml/d	1.00 (Reference) 1.08 (1.02, 1.14) 1.04 (0.97, 1.10) 1.13 (0.98, 1.31) 0.90 (0.76, 1.07)
100% Fruit Juice			
Auerbach et al., 2017 – WHI ⁴	Validated SFFQ	0 ml/d 30 ml/d 77 ml/d	1.00 (Reference) 0.98 (0.94, 1.01) 0.97 (0.94, 1.01)

		145 ml/d	0.98 (0.94, 1.01)
		231 ml/d	1.01 (0.97, 1.04)
Duffey et al., 2010 – CARDIA ¹³	Validated SFFQ	0 ml/d	1.00 (Reference)
		114 ml/d	0.89 (0.82, 0.97)
Fruit Drinks			
Mirmiran et al. 2015 – TLGS ⁷	Validated SFFQ	1 ml/d	1.00 (Reference)
		8 ml/d	2.00 (0.71, 5.66)
		20 ml/d	1.91 (0.65, 5.60)
		67 ml/d	1.28 (0.04, 3.94)
Sweet Snacks			
Asghari et al., 2016 – TLGS ²⁶	Validated SFFQ	7 g/d	1.00 (Reference)
		19 g/d	1.17 (0.45, 3.93)
		35 g/d	2.49 (0.82, 7.59)
		73 g/d	2.18 (0.70, 6.81)

Table S1. Search terms.

MEDLINE	EMBASE	Cochrane
1 sugar*.mp.	1 sugar*.mp.	1 sugar*.mp.
2 exp fructose/	2 exp sugar/	2 exp fructose/
3 fructose.mp.	3 exp fructose/	3 fructose.mp.
4 HFCS.mp.	4 fructose.mp.	4 HFCS.mp.
5 exp High Fructose Corn Syrup/	5 HFCS.mp.	5 exp Nutritive Sweeteners/
6 sucrose.mp.	6 exp high fructose corn syrup/	6 sucrose.mp.
7 exp Dietary Sucrose/	7 sucrose.mp.	7 exp dietary sucrose/
8 sugar sweetened beverage*.mp.	8 exp dietary sucrose/	8 sugar sweetened beverage*.mp.
9 SSB.mp.	9 sugar sweetened beverage*.mp.	9 ssb.mp.
10 soda.mp.	10 SSB.mp.	10 soda.mp.
11 soft drink*.mp.	11 soda.mp.	11 soft drink*.mp.
12 exp Carbonated Beverages/	12 soft drink*.mp.	12 exp carbonated beverages/
13 carbonated beverages.mp.	13 exp soft drink/	13 non alcoholic beverage*.mp.
14 non alcoholic beverage*.mp.	14 exp Carbonated Beverages/	14 nonalcoholic beverage*.mp.
15 nonalcoholic beverage*.mp.	15 carbonated beverages.mp.	15 exp energy drinks/
16 exp Energy Drinks/	16 non alcoholic beverage*.mp.	16 energy drink*.mp.
17 energy drink*.mp.	17 nonalcoholic beverage*.mp.	17 smoothie*.mp.
18 smoothie*.mp.	18 exp energy drink/	18 ((fruit or vegetable) and juice*).mp.
19 exp "Fruit and Vegetable Juices"/	19 energy drink*.mp.	19 fruit.mp.
20 fruit.mp.	20 smoothie*.mp.	20 exp fruit/
21 exp Fruit/	21 exp "fruit and vegetable juice"/	21 exp honey/
22 exp Honey/	22 fruit.mp.	22 y*g*rt.mp.
23 y*g*rt.mp.	23 exp fruit/	23 exp yogurt/
24 exp Yogurt/	24 exp honey/	24 ice cream*.mp.
25 ice cream*.mp.	25 y*g*rt.mp.	25 icecream*.mp.
26 icecream*.mp.	26 exp yoghurt/	26 exp ice cream/
27 exp Ice Cream/	27 exp ice cream/	27 cereal*.mp.
28 cereal*.mp.	28 ice cream*.mp.	28 dessert*.mp.
29 exp edible grain/	29 icecream*.mp.	29 sweets.mp.
30 dessert*.mp.	30 cereal*.mp.	30 confection*.mp.
31 sweets.mp.	31 dessert*.mp.	31 pastries.mp.
32 confection*.mp.	32 sweets.mp.	32 biscuit*.mp.
33 pastries.mp.	33 confection*.mp.	33 cookie*.mp.
34 biscuit*.mp.	34 exp bakery product/	34 cake*.mp.
35 cookie*.mp.	35 pastries.mp.	35 candy.mp.
36 cake*.mp.	36 biscuit*.mp.	36 candies.mp.
37 candy.mp.	37 cookie*.mp.	37 exp candy/

Table S1. Search terms (Continued)

MEDLINE	EMBASE	Cochrane
38 candies.mp.	38 cake*.mp.	38 (chocolate adj2 milk).mp.
39 exp Candy/	39 candy.mp.	39 chocolate.mp
40 (chocolate adj2 milk).mp.	40 candies.mp.	40 exp cacao/
41 exp chocolate/	41 (chocolate adj2 milk).mp.	41 cacao.mp
42 chocolate.mp	42 exp chocolate/	42 or/1-41
43 exp cacao/	43 chocolate.mp	43 cohort.mp.
44 cacao.mp	44 exp cacao/	44 exp Prospective Studies/
45 or/1-44	45 cacao.mp	45 (prospective adj2 (cohort or study)).mp.
46 cohort.mp.	46 or/1-45	46 exp follow-up studies/
47 exp prospective study/	47 cohort.mp.	47 exp multivariate analysis/
(prospective adj2 (cohort or		
study)).mp.	48 exp prospective study/	48 exp proportional hazards models/
49 exp Follow-Up Studies/	49 (prospective adj2 (cohort or study)).mp.	49 follow up study.mp.
50 exp Multivariate Analysis/	50 exp multivariate analysis/	50 (longitudinal adj2 study).mp.
51 exp Proportional Hazards Models/	51 exp proportional hazards model/	51 or/43-50
52 follow up study.mp.	52 follow up study.mp.	52 hypertensive*.mp.
53 (longitudinal adj2 study).mp.	53 (longitudinal adj2 study).mp.	53 exp Hypertension/
54 or/46-53	54 or/47-53	54 hypertension*.mp.
55 hypertensive*.mp.	55 hypertensive*.mp.	55 HTN.mp.
56 exp Hypertension/	56 exp Hypertension/	56 blood pressure.mp.
57 hypertension*.mp.	57 hypertension*.mp.	57 exp Blood Pressure/
58 HTN.mp.	58 HTN.mp.	58 systolic blood pressure.mp.
59 blood pressure.mp.	59 blood pressure.mp.	59 SBP.mp.
60 exp Blood Pressure/	60 exp Blood Pressure/	60 diastolic blood pressure.mp.
61 systolic blood pressure.mp.	61 systolic blood pressure.mp.	61 DBP.mp.
62 SBP.mp.	62 SBP.mp.	62 or/52-61
63 diastolic blood pressure.mp.	63 diastolic blood pressure.mp.	63 and/42,51,62
64 DBP.mp.	64 DBP.mp.	
65 or/55-64	65 or/55-64	
66 and/45,54,65	66 and/46,54,65	

Database	Total
MEDLINE: December week 2 2018	1,063
EMBASE: December week 2 2018	2,428
Cochrane: December week 2 2018	173
Manual search	5
Total	3,669

The original search was conducted November week 1 2016. The search was updated twice, to December week 2 2018.

Table S2. Definitions of food categories.

Sugar-sweetened beverages (SSBs)	
Barrio-Lopez et al., 2013 – SUN ¹	Sugar-sweetened carbonated colas; fruit-flavoured carbonated sugar soft drinks
Cohen et al., 2012 – NHS, NHSII, HPFS ²	Sugar-sweetened cola; sugar-sweetened caffeine-free cola; sugar-sweetened non-cola; and fruit punch or other sugar-sweetened fruit drink
Dhingra et al., 2007 – FOC ³	Soft drinks (Coke, Pepsi, Sprite, or other carbonated soft drinks) – caffeinated or non-caffeinated
Duffey et al., 2010 – CARDIA ⁴	Sugar-sweetened soda; fruit drinks
Kang et al., 2017 – KoGES ⁵	Soft drinks (carbonated beverages, e.g., Cola and Sprite)
Kwak et al., 2018 – KoGES ⁶	Soft drinks (coke or sprite) and other sweetened drinks (sweetened rice drink and sweetened citrus tea)
Mirmiran et al., 2015 – TLGS ⁷	Sugar-sweetened carbonated soft drinks
Sayon-Orea et al., 2015 – SUN ⁸	Sugar-sweetened carbonated colas; fruit-flavored carbonated sugar soft drinks
Weng et al., 2013 – ARIC ⁹	Not specified
Winkelmayer et al., 2005 – NHS, NHSII ¹⁰	Regular cola (Coke, Pepsi, or other cola beverages with sugar)
Fruit	
Borgi et al., 2016 – NHS, NHSII, HPFS ¹¹	Whole fruits: raisins/grapes; fresh apples/pears; bananas; strawberries; blueberries; prunes; avocado; cantaloupe; oranges; peaches/apricots/plums
Kim et al., J Acad Nutr Diet, 2017 – KoGES ¹²	Tangerines, oranges, persimmon or dried persimmon, watermelon, strawberry, grape, pear, oriental melon/melon, peach or prune, apple, banana, and tomato
Auerbach et al., 2017 – WHI ¹³	Not specified
Koochakpoor et al., 2018 – TLGS ¹⁴	
Nunez-Cordoba et al., 2009 – SUN ¹⁵	
Psaltopoulou et al., 2004 – EPIC ¹⁶	
Steffen et al., 2005 – CARDIA ¹⁷	
Tsubota-Utsugi et al., 2011 – Ohasama ¹⁸	
Wang et al., 2012 – WHS ¹⁹	
Weng et al., 2013 – ARIC ⁹	
Yogurt	
Wang et al., 2008 – WHS ²⁰	Low-fat yogurt
Buendia et al., 2018 – NHS, NHSII, HPFS ²¹	Yogurt (all types)
Alonso et al., 2009 – ARIC ²²	Not specified
Engberink et al., 2009 – MORGEN ²³	
Kim et al., Brit J Nutr, 2017 – KoGES ²⁴	
Steffen et al., 2005 – CARDIA ¹⁷	
Wang et al., 2015 – FHS ²⁵	
Dairy desserts	
Steffen et al., 2005 – CARDIA ¹⁷	Dairy desserts (not specified)
Wang et al., 2008 – WHS ²⁰	Low-fat sherbet
Alonso et al., 2009 – ARIC ²²	Ice cream
100% Fruit juice	
Duffey et al., 2010 – CARDIA ⁴	Fruit juice (non-sweetened)
Auerbach et al., 2017 – WHI ¹³	100% fruit juice
Fruit drinks	
Mirmiran et al., 2015 – TLGS ⁷	Fruit juice – sugar-sweetened drinks and non-sweetened
Sweet snacks	
Asghari et al., 2016 – TLGS ²⁶	Candies, chocolates, cookies, cakes, biscuits, confectionery, caramels, and traditional Iranian confectioneries, such as gaz, sohan, noghl, halva, Yazdi cakes

Table S4. Newcastle-Ottawa Scale (NOS) for Assessing the Quality of Cohort Studies.

Study	Selection*	Outcome †	Comparability ‡	Total §
Alonso et al., 2009 ²²	4	3	2	9
Asghari et al., 2016 ²⁶	4	3	1	8
Auberbach et al., 2017 ¹³	3	1	2	6
Barrio-Lopez et al., 2013 ¹	3	3	2	7
Borgi et al., 2016 ¹¹	3	2	2	6
Buenda et al., 2018 ²¹	2	2	1	5
Cohen et al., 2012 ²	3	2	2	6
Dhingra et al., 2007 ³	4	2	1	6
Duffey et al., 2010 ⁴	4	1	2	7
Engberink et al., 2009 ²³	3	2	1	6
Kang et al., 2017 ⁵	4	2	2	8
Kim et al., Br J Nutr, 2017 ²⁴	4	2	2	8
Kim et al., J Acad Nutr Diet, 2017 ¹²	4	2	2	8
Koochakpoor et al., 2018 ¹⁴	4	3	1	8
Kwak et al., 2018 ⁶	4	2	2	8
Mirmiran et al., 2015 ⁷	4	3	1	8
Nun˘ez-Cordoba et al., 2009 ¹⁵	3	3	2	7
Psaltopoulou et al., 2004 ¹⁶	3	2	1	6
Sayon-Orea et al., 2015 ⁸	3	2	2	6
Steffen et al., 2005 ¹⁷	4	2	1	7
Tsubota-Utsugi et al., 2011 ¹⁸	4	2	2	7
Wang et al., 2008 ²⁰	3	2	2	6
Wang et al., 2012 ¹⁹	3	1	2	5
Wang et al., 2015 ⁹	3	2	1	6
Weng et al., 2013 ⁹	4	3	1	8
Winkelmayer et al., 2005 ¹⁰	3	3	1	6

* Maximum 4 points awarded for cohort representativeness, selection of non-exposed cohort, exposure assessment and demonstration outcome not present at baseline.

† Maximum 3 points awarded for follow-up length, adequacy of follow-up and outcome assessment.

‡ Maximum 2 points awarding for controlling for the pre-specified primary confounding variable (age) and ≥ 6 of the secondary confounding variables (sex, any marker of adiposity, smoking, energy intake, physical activity, diabetes/dysglycemia, alcohol intake, sodium intake).

§ A maximum of 9 points could be awarded.

Table S5. Sensitivity analysis with systematic removal of each study.

Removal of:	Participants N	Cases N	Risk Ratio for Incident Hypertension			Heterogeneity	
			RR	95% CI	p-value	I ²	p-value
SSBs							
<i>All included:</i>	427,630	120,553	1.17	[1.11, 1.23]	<0.00001	66%	0.0004
Barrio-Lopez, Brit J Nutr, 2013 - SUN	8157	1464	1.14	[1.09, 1.20]	<0.00001	58%	0.006
Cohen, J Gen Intern Med, 2012 - HPFS	37360	13439	1.19	[1.12, 1.26]	<0.00001	66%	0.0006
Cohen, J Gen Intern Med, 2012 - NHS	88540	42022	1.19	[1.11, 1.28]	<0.00001	66%	0.0002
Cohen, J Gen Intern Med, 2012 - NHSII	97991	21873	1.18	[1.10, 1.25]	<0.00001	67%	0.0005
Dhingra, Circulation, 2007 - FOC	2803	1377	1.17	[1.11, 1.24]	<0.00001	69%	0.0002
Duffrey, Am J Clin Nutr, 2010 - CARDIA	2639	609	1.19	[1.12, 1.27]	<0.00001	63%	0.002
Kang, Brit J Nutr, 2017 - KoGES	4591	1309	1.15	[1.09, 1.21]	<0.00001	64%	0.001
Kwak, Eur J Nutr, 2018 - KoGES	5775	1175	1.17	[1.10, 1.24]	<0.00001	69%	0.0003
Mirmiran, Nutr Metab, 2015 - TLGS	424	47	1.16	[1.10, 1.22]	<0.00001	65%	0.0008
Sayon-Orea, Clin Nutr, 2015 - SUN	13843	1308	1.16	[1.10, 1.22]	<0.00001	67%	0.0005
Weng, Nutrients, 2013 - ARIC	9913	2853	1.18	[1.12, 1.25]	<0.00001	67%	0.0004
Winkelmayer, JAMA, 2005 - NHS	61091	19541	1.16	[1.10, 1.23]	<0.00001	68%	0.0003
Winkelmayer, JAMA, 2005 - NHSII	94503	13536	1.16	[1.10, 1.23]	<0.00001	68%	0.0003
Fruit							
<i>All included:</i>	281,120	148,928	0.81	[0.73, 0.89]	<0.0001	88%	<0.00001
Auerbach, Prev med, 2017 - WHI	80539	46202	0.77	[0.68, 0.87]	<0.0001	87%	<0.00001
Borgi, Hypertension, 2016 - HPFS	20010	16752	0.79	[0.70, 0.89]	<0.0001	89%	<0.00001
Borgi, Hypertension, 2016 - NHS	39164	35375	0.78	[0.69, 0.88]	<0.0001	89%	<0.00001
Borgi, Hypertension, 2016 - NHS II	63885	25246	0.79	[0.71, 0.88]	<0.0001	89%	<0.00001
Kim, J Acad Nutr Diet, 2017 - KoGES (men)	2085	606	0.84	[0.77, 0.93]	0.0005	86%	<0.00001
Kim, J Acad Nutr Diet, 2017 - KoGES (women)	2172	552	0.87	[0.80, 0.94]	0.0009	80%	<0.00001
Koochakpoor, Nutr Res, 2018 - TLGS	1284	640	0.80	[0.72, 0.89]	<0.0001	89%	<0.00001
Nun~ez-Cordoba, Eur J Clin Nutr, 2009 - SUN	8594	426	0.80	[0.72, 0.89]	<0.0001	89%	<0.00001
Psaltopoulou, Am J Clin Nutr, 2004 - EPIC	20343	5424	0.82	[0.74, 0.91]	0.0002	88%	<0.00001
Steffen, Am J Clin Nutr, 2005 - CARDIA	4304	997	0.81	[0.73, 0.90]	0.0001	88%	<0.00001
Tsubota-Utsugi, J Hum Hypertens, 2011 - Ohasama	745	222	0.82	[0.74, 0.91]	0.0001	88%	<0.00001
Wang, Am J Hypertens, 2012 - WHS	28082	13633	0.78	[0.69, 0.88]	<0.0001	89%	<0.00001
Weng, Nutrients, 2013 - ARIC	9913	2853	0.78	[0.70, 0.87]	<0.00001	89%	<0.00001
Yogurt							
<i>All included:</i>	235705	97783	0.96	[0.86, 0.96]	0.0007	54%	0.03
Alonso, Eur J Clin Nutr, 2009 - ARIC	8208	2399	0.90	[0.85, 0.95]	0.0002	54%	0.03
Buendia, J Hypertens, 2018 - HPFS	30512	14166	0.90	[0.85, 0.95]	0.0002	53%	0.04
Buendia, J Hypertens, 2018 - NHS	69298	41934	0.92	[0.86, 0.98]	0.007	53%	0.04
Buendia, J Hypertens, 2018 - NHSII	84368	26282	0.91	[0.85, 0.97]	0.006	59%	0.02
Engberink, J Nutr, 2009 - MORGEN	3454	713	0.91	[0.86, 0.97]	0.002	58%	0.02
Kim, Brit J Nutr, 2017 - KoGES	4335	1556	0.92	[0.88, 0.96]	0.0003	30%	0.19
Steffen, Am J Clin Nutr, 2005 - CARDIA	4304	997	0.91	[0.86, 0.97]	0.002	60%	0.02
Wang, Brit J Nutr, 2015 - FHS	28886	8710	0.90	[0.84, 0.96]	0.002	53%	0.04
Wang, Hypertension, 2008 - WHS	2340	1026	0.90	[0.85, 0.96]	0.0008	58%	0.02

Each study was removed independently and the pooled estimate recalculated. The red and blue lines represent the original pooled risk estimate with all studies included. Inter-study heterogeneity was tested using the Cochran Q statistic (Chi²) at a significance level of p<0.10, and quantified by the I² statistic. An I² value ≥ 50% is considered to indicate substantial heterogeneity. All results are presented as Relative Risks (RR) with 95% Confidence Intervals.

Table S6. GRADE assessment.

No. of comparisons	Design	Quality assessment						Study event rates (%)	Effect Relative Risk [95% CI]	Quality Importance
		Risk of bias	Inconsistency	Indirectness	Imprecision	Publication bias	Other considerations			
SSBs intake on incident hypertension (follow-up median 10.0 years)										
13 ^{24, 26-29, 32, 38, 44-46}	Observational studies	No serious	Serious*	No serious	No serious	Detected†	Dose-response gradient‡	28%	RR 1.17 [1.11, 1.23]	⊕⊕⊕⊖ Low *, †, ‡
Fruit intake on incident hypertension (follow-up median 9.0 years)										
13 ^{25, 30, 31, 33, 34, 36, 40, 46, 48, 49}	Observational studies	No serious	Serious§	No serious	No serious	Detected	Dose-response gradient#	53%	RR 0.81 [0.73, 0.89]	⊕⊕⊕⊖ Low §, , #
Yogurt intake on incident hypertension (follow-up median 14.6 years)										
9 ^{33, 35, 37, 41-43, 47}	Observational studies	No serious	Serious**	No serious	Serious††	Not detected‡‡	Dose-response gradient§§	41%	RR 0.91 [0.86, 0.96]	⊕⊕⊕⊖ Low **, ††, ‡‡, §§
Dairy desserts intake on incident hypertension (follow-up median 10.0 years)										
3 ^{33, 35, 42}	Observational studies	No serious	No serious	No serious	Serious††	Not detected‡‡	None	29%	RR 0.85 [0.76, 0.95]	⊕⊕⊕⊖ Very low ††, ‡‡
100% Fruit juice intake on incident hypertension (follow-up median 13.9 years)										
2 ^{28, 40}	Observational studies	No serious	Serious	No serious	No serious##	Not detected‡‡	Dose-response gradient***	56%	RR 0.95 [0.85, 1.07]	⊕⊕⊕⊖ Low ‡‡, , ##, ***
Fruit drinks intake on incident hypertension (follow-up 3.6 years)										
1 ²⁹	Observational study	No serious	No serious	Serious†††, ‡‡‡	Serious§§§	Not detected‡‡	None	11%	RR 1.27 [0.43, 3.75]	⊕⊕⊕⊖ Very low ‡‡, †††, ‡‡‡, §§§
Sweet snacks intake on incident hypertension (follow-up 3.6 years)										
1 ³⁹	Observational study	No serious	No serious	Serious†††, ‡‡‡	Serious	Not detected‡‡	None	11%	RR 2.00 [0.84, 4.76]	⊕⊕⊕⊖ Very low ‡‡, ***, †††,

* Downgrade for serious inconsistency, as there was evidence of substantial inter-study heterogeneity ($I^2=66\%$, $p=0.0004$)

† There was evidence of funnel plot asymmetry via visual inspection and both the Egger ($p=0.02$) and Begg test were significant ($p=0.04$). Adjustment for funnel plot asymmetry by the recalculation of the pooled estimate by inputting missing studies using the Duvall and Tweedie trim and fill method did not alter the significance of the relationship, with only limited attenuation of the summary estimate (RR=1.12 [95% CI, 1.05-1.19]).

‡ Upgrade for dose-response gradient, as there was a significant harmful dose-response relationship between SSBs intake and hypertension with evidence for non-linearity ($p=0.02$).

§ Downgrade for serious inconsistency, as there was evidence of substantial inter-study heterogeneity ($I^2=88\%$, $p<0.00001$).

|| There was evidence of funnel plot asymmetry as the Begg test was significant ($p=0.09$), although the Egger test was not significant ($p=0.70$). The Duvall and Tweedie trim and fill method did not perform any trimming and the pooled estimate did not change.

Upgrade for dose-response gradient, as there was a significant protective and linear dose-response relationship between fruit intake and hypertension.

** Downgrade for serious inconsistency, as there was evidence of substantial inter-study heterogeneity ($I^2=54\%$, $p=0.03$)

†† Downgrade for serious imprecision, as the upper CI bound crosses the clinically important protection threshold of RR=0.9.

‡‡ Bias cannot be excluded since we were unable to test for funnel plot asymmetry due to lack of power (<10 cohorts included in the analysis).

§§ Upgrade for dose-response gradient, as there was a significant protective dose-response relationship between yogurt intake and hypertension with evidence for non-linearity ($p=0.02$).

||| Downgrade for serious inconsistency, as there was evidence of substantial inter-study heterogeneity ($I^2=85\%$, $p=0.01$).

Although pairwise meta-analysis showed serious imprecision, this imprecision was explained by non-linear dose-response analysis.

*** Upgrade for dose-response gradient, as there was a significant U-shaped dose-response relationship between 100% fruit juice intake and hypertension (P-value for non-linearity=0.001).

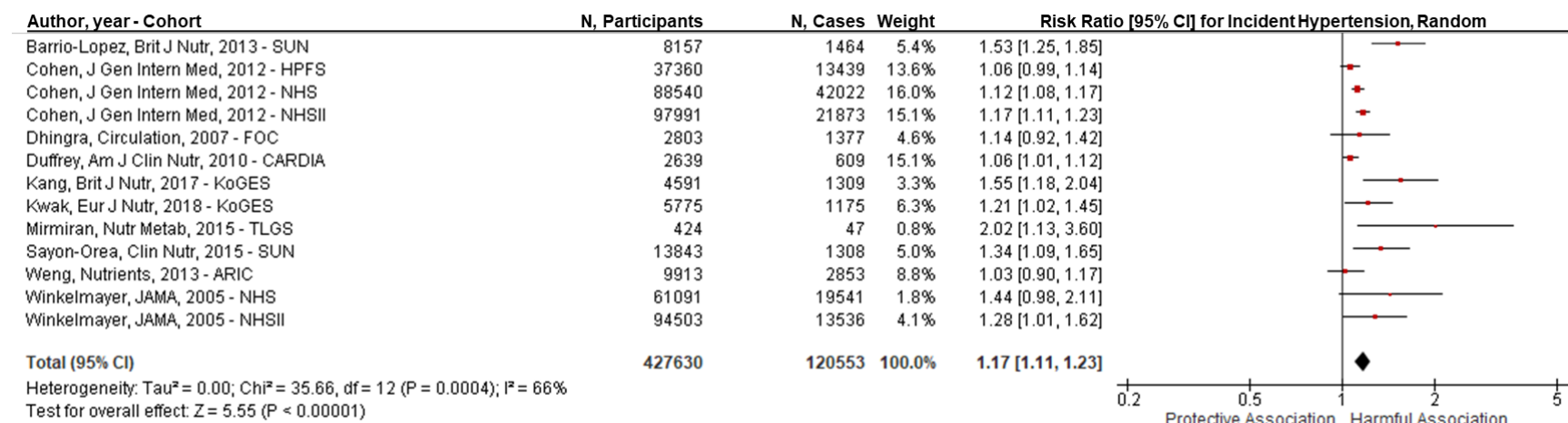
††† Downgrade for serious indirectness due to limited number of cohort comparisons in specific groups which may not be generalizable to the general population.

‡‡‡ Downgrade for serious indirectness, as only number of cases of metabolic syndrome was reported.

§§§ Downgrade as the sample sizes were very small ($n=424$) and the 95% CI were very large (0.43, 3.75) containing evidence of both clinically important protection (RR<0.9) and harm (RR>1.1).

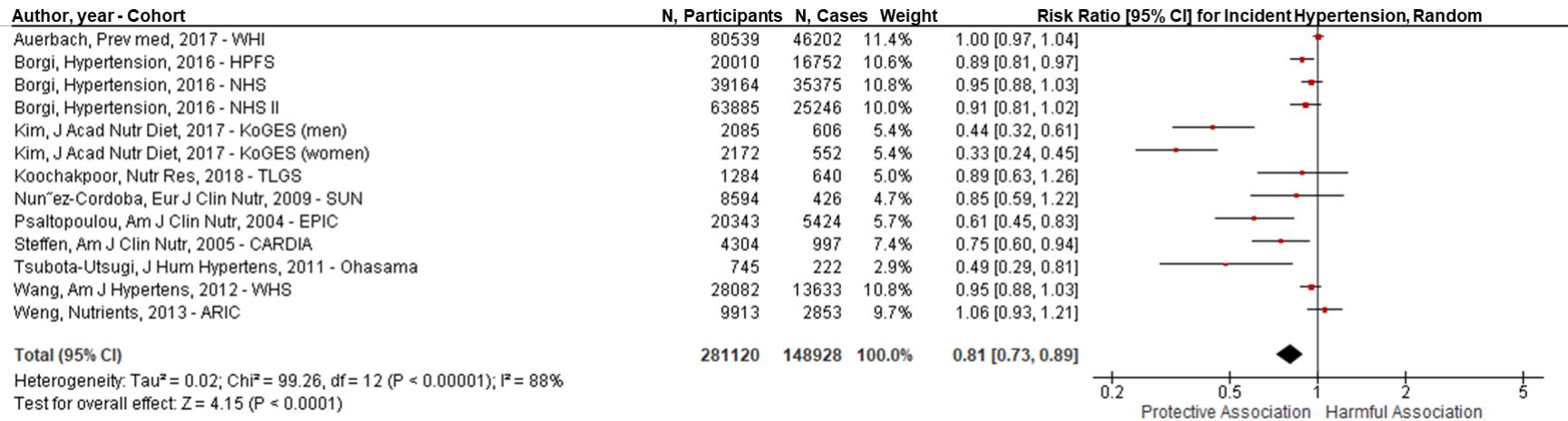
|||| Downgrade as the sample size was very small ($n=439$) and the 95% CI were very large (0.84, 4.76) containing evidence of both clinically important protection (RR<0.9) and harm (RR>1.1)

Figure S1. Forest plot – Pairwise meta-analysis of SSBs intake and incident hypertension.



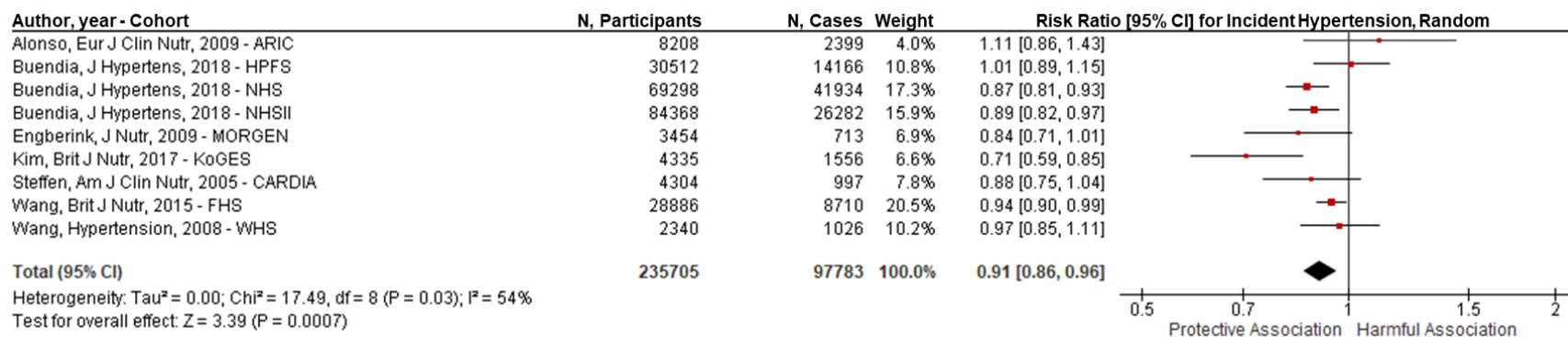
The black diamond represents the pooled risk estimate. Inter-study heterogeneity was tested using the Cochran Q statistic (Chi²) at a significance level of p<0.10, and quantified by the I² statistic. An I² value ≥ 50% is considered to indicate substantial heterogeneity. All results are presented as Relative Risks (RR) with 95% Confidence Intervals

Figure S2. Forest plot – Pairwise meta-analysis of fruit intake and incident hypertension.



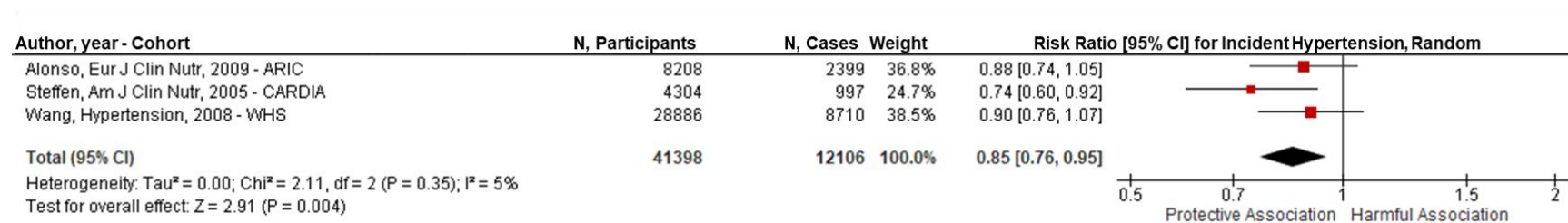
The black diamond represents the pooled risk estimate. Inter-study heterogeneity was tested using the Cochran Q statistic (Chi²) at a significance level of p<0.10, and quantified by the I² statistic. An I² value ≥ 50% is considered to indicate substantial heterogeneity. All results are presented as Relative Risks (RR) with 95% Confidence Intervals. Mirmiran et al. only reported cases of metabolic syndrome.

Figure S3. Forest plot – Pairwise meta-analysis of yogurt intake and incident hypertension.



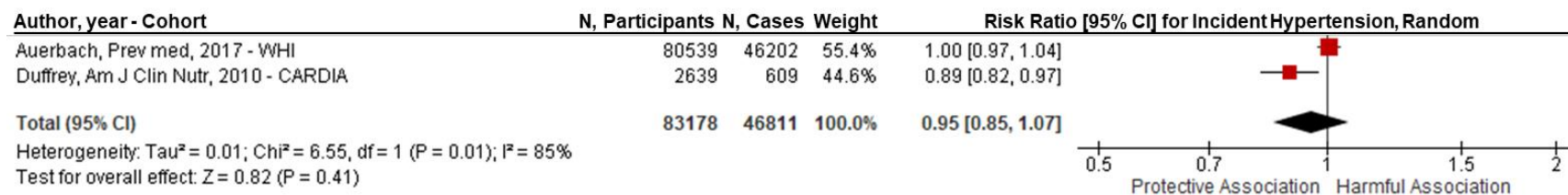
The black diamond represents the pooled risk estimate. Inter-study heterogeneity was tested using the Cochran Q statistic (Chi²) at a significance level of p<0.10, and quantified by the I² statistic. An I² value ≥ 50% is considered to indicate substantial heterogeneity. All results are presented as Relative Risks (RR) with 95% Confidence Intervals.

Figure S4. Forest plot – Pairwise meta-analysis of dairy desserts intake and incident hypertension.



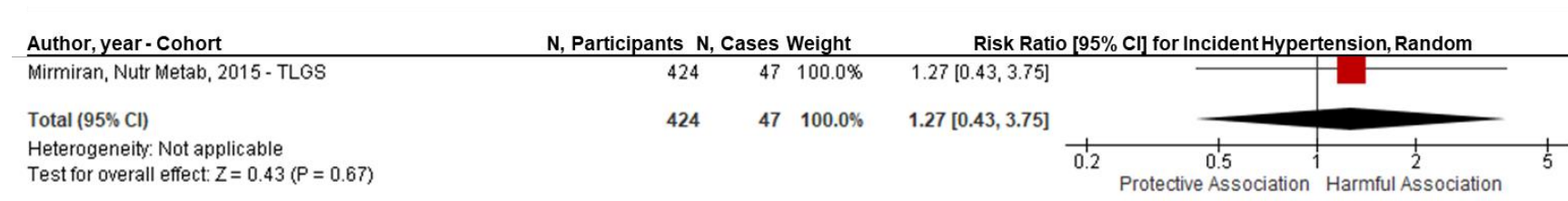
The black diamond represents the pooled risk estimate. Inter-study heterogeneity was tested using the Cochran Q statistic (Chi²) at a significance level of p<0.10, and quantified by the I² statistic. An I² value ≥ 50% is considered to indicate substantial heterogeneity. All results are presented as Relative Risks (RR) with 95% Confidence Intervals.

Figure S5. Forest plot – Pairwise meta-analysis of 100% fruit juice intake and incident hypertension.



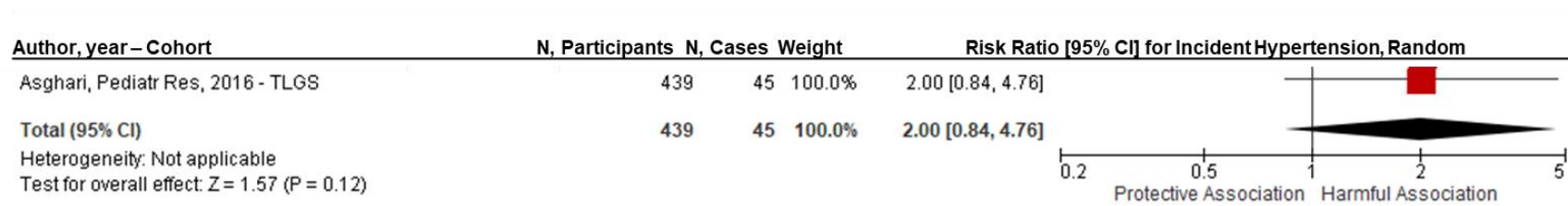
The black diamond represents the pooled risk estimate. Inter-study heterogeneity was tested using the Cochran Q statistic (Chi²) at a significance level of p<0.10, and quantified by the I² statistic. An I² value ≥ 50% is considered to indicate substantial heterogeneity. All results are presented as Relative Risks (RR) with 95% Confidence Intervals.

Figure S6. Forest plot – Pairwise meta-analysis of fruit drinks intake and incident hypertension.



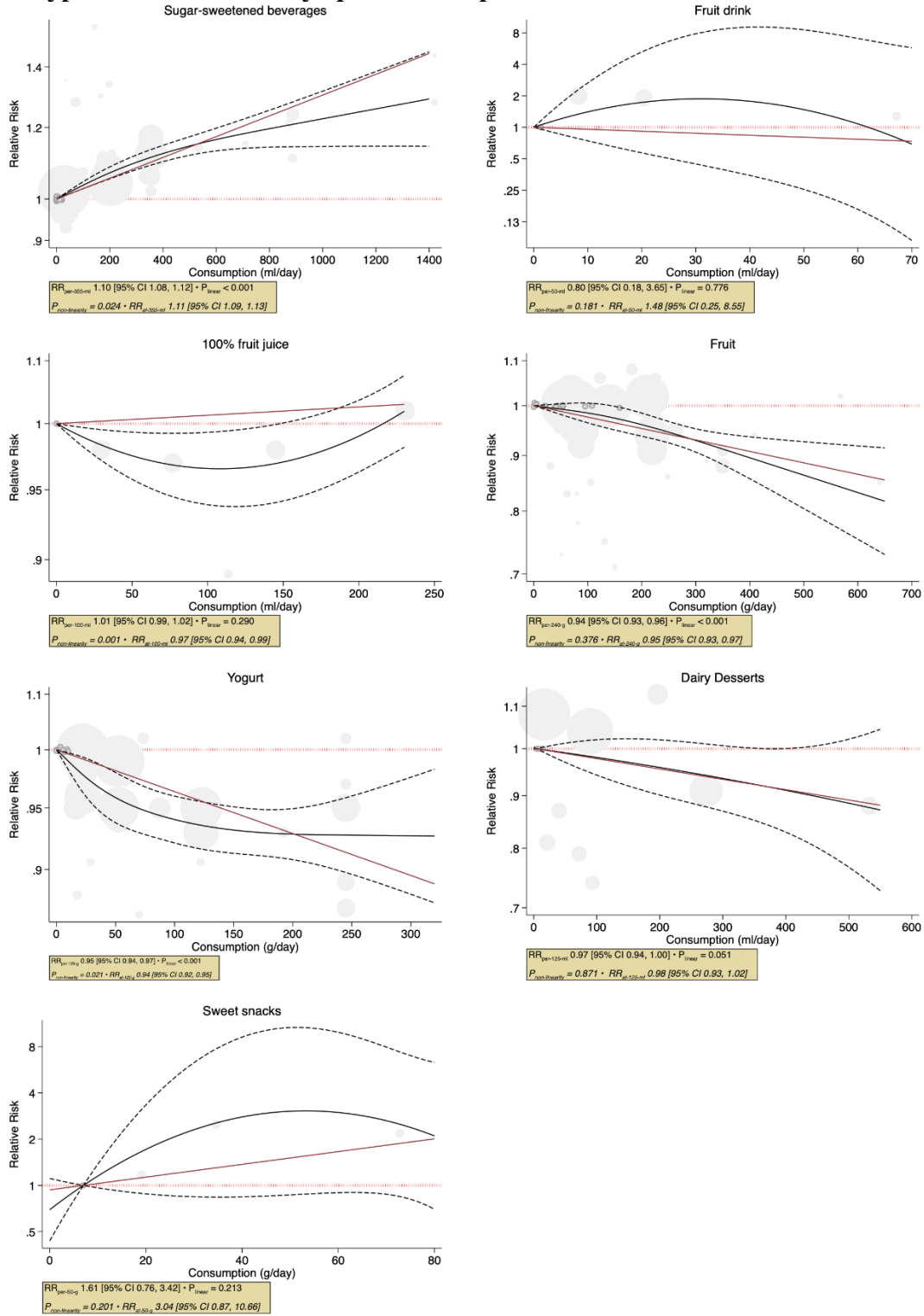
The black diamond represents the pooled risk estimate. Inter-study heterogeneity was tested using the Cochran Q statistic (χ^2) at a significance level of $p < 0.10$, and quantified by the I^2 statistic. An I^2 value $\geq 50\%$ is considered to indicate substantial heterogeneity. All results are presented as Relative Risks (RR) with 95% Confidence Intervals. *Study only reported cases of metabolic syndrome.

Figure S7. Forest plot – Pairwise meta-analysis of sweet Snacks intake and incident hypertension.



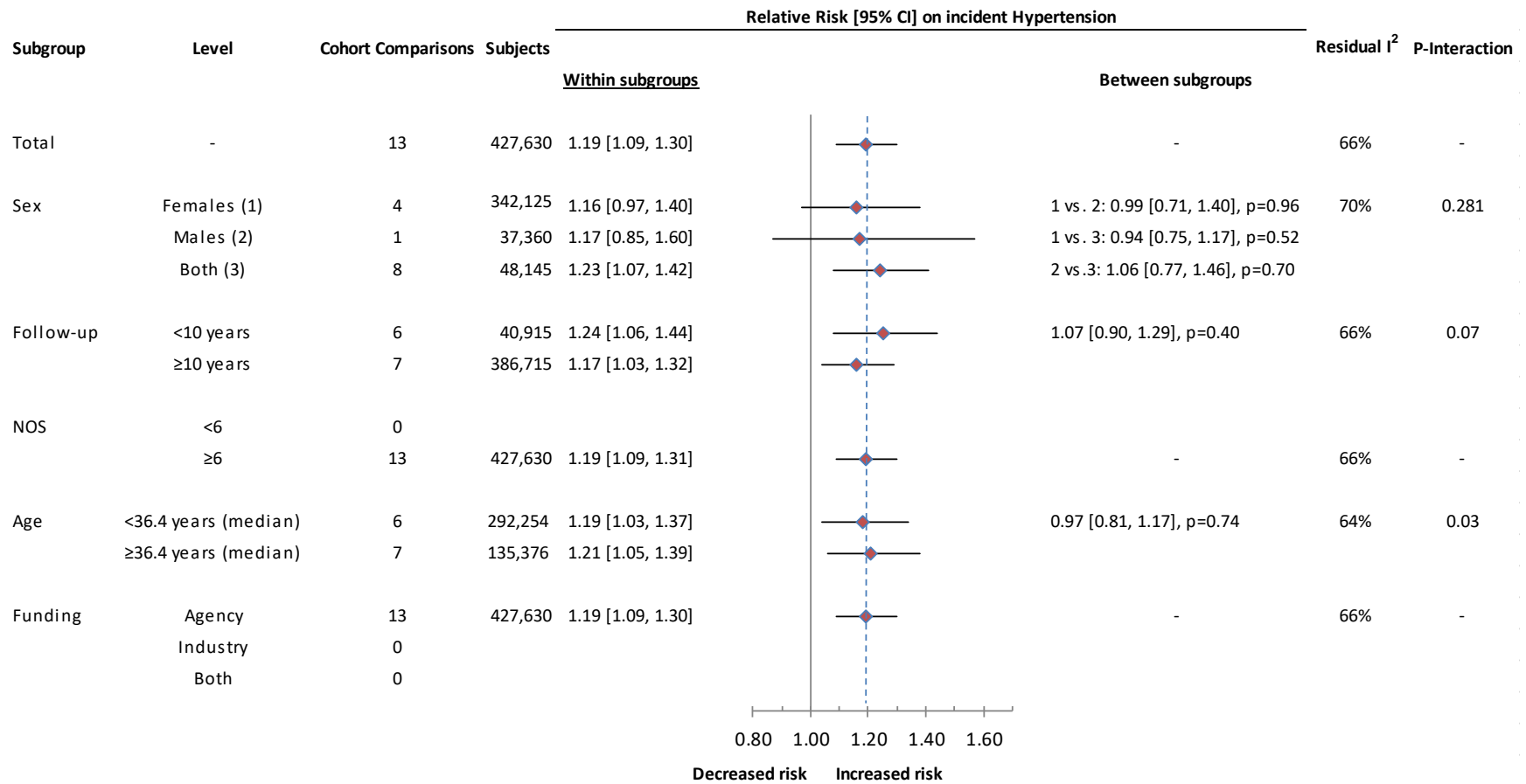
The black diamond represents the pooled risk estimate. Inter-study heterogeneity was tested using the Cochran Q statistic (χ^2) at a significance level of $p < 0.10$, and quantified by the I^2 statistic. An I^2 value $\geq 50\%$ is considered to indicate substantial heterogeneity. All results are presented as Relative Risks (RR) with 95% Confidence Intervals. *Study only reported cases of metabolic syndrome.

Figure S8. Dose-response relation between sources of fructose-containing sugars and incident hypertension with study-specific data points.



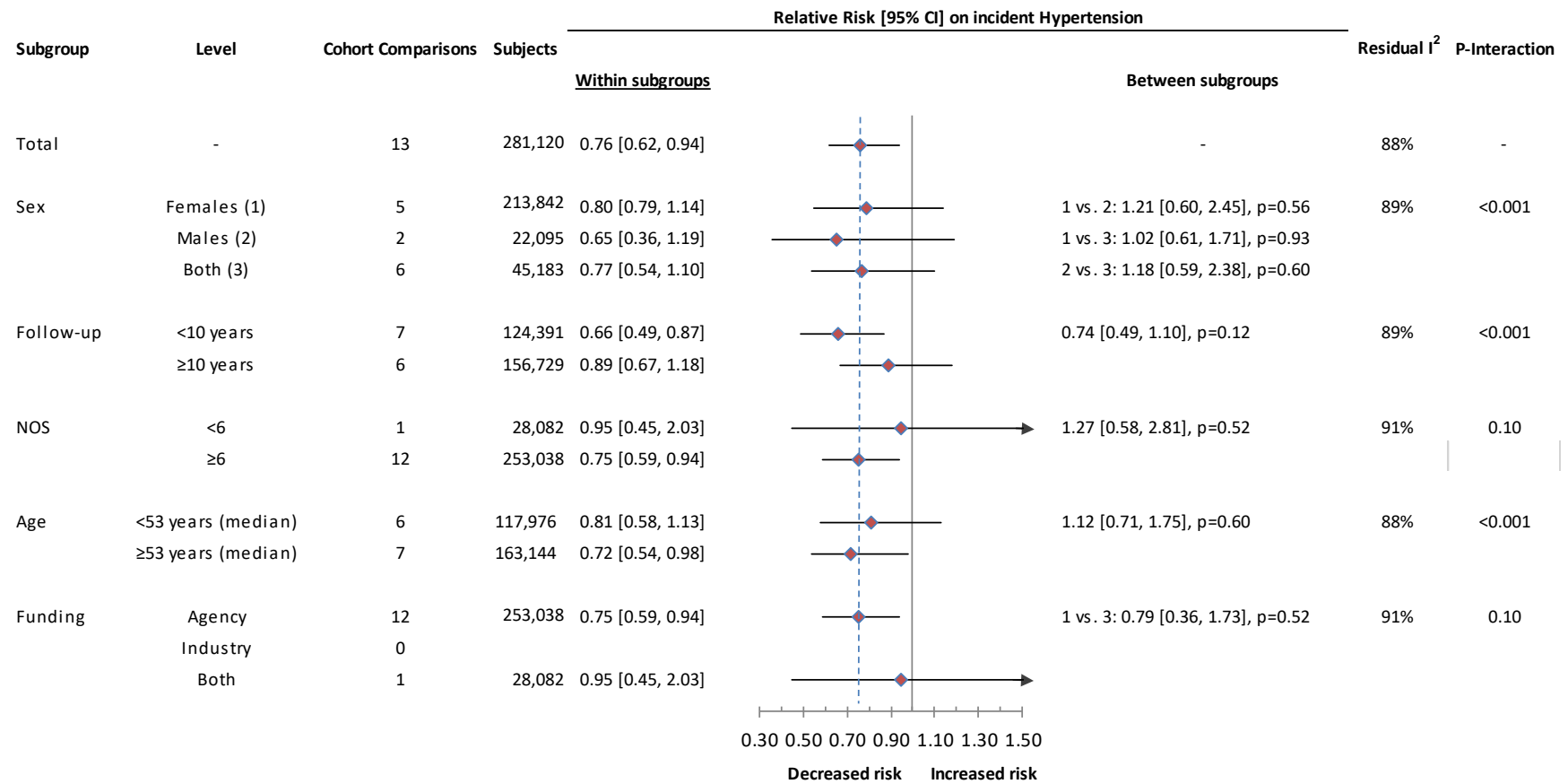
Dose-response relationship between intake of SSBs, fruit, 100% fruit juice, yogurt, fruit drink, dairy desserts, and sweet snacks with risk of hypertension. Red line represents the linear and black lines represent the non-linear models, respectively. Dotted lines represent 95% confidence intervals of the non-linear model. The light gray circles represent the relative risk-point estimates for the different doses from each study; the size of the circle is related to inverse of the variance. The smaller gray circles with dark gray outline represent the baseline dose category for each separate study; random-noise has been added in the graphic display for these baseline circles to show them separately.

Figure S9. Subgroup analyses of SSBs intake and incident hypertension.



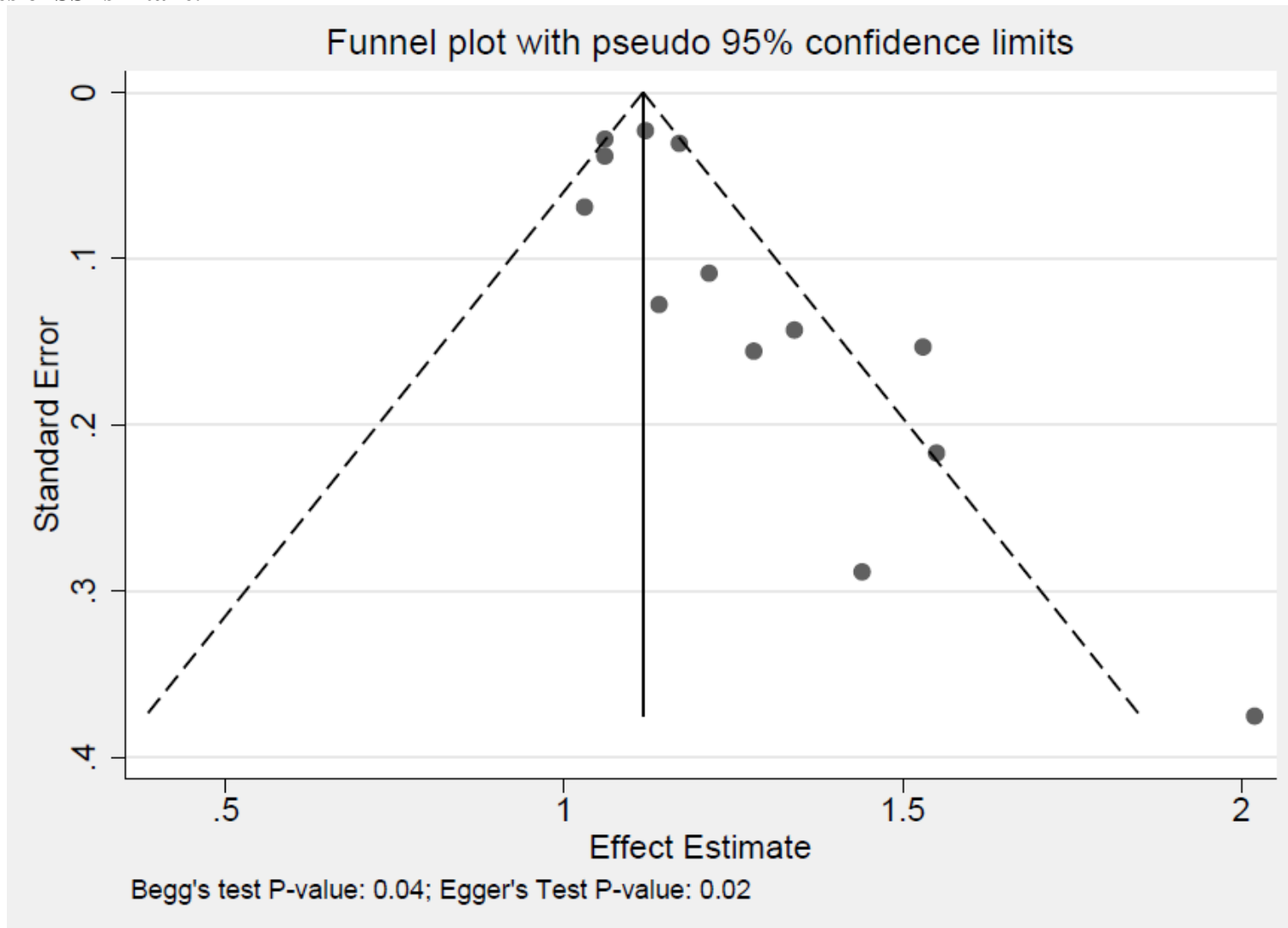
RR, relative risk; NOS, Newcastle-Ottawa Scale. Point estimates for each subgroup level (diamonds) are the pooled effect estimates. The dashed line represents the pooled effect estimate for the overall (total) analysis. The residual I² value indicates the inter-study heterogeneity unexplained by the subgroup.

Figure S10. Subgroup analyses of fruit intake and incident hypertension.



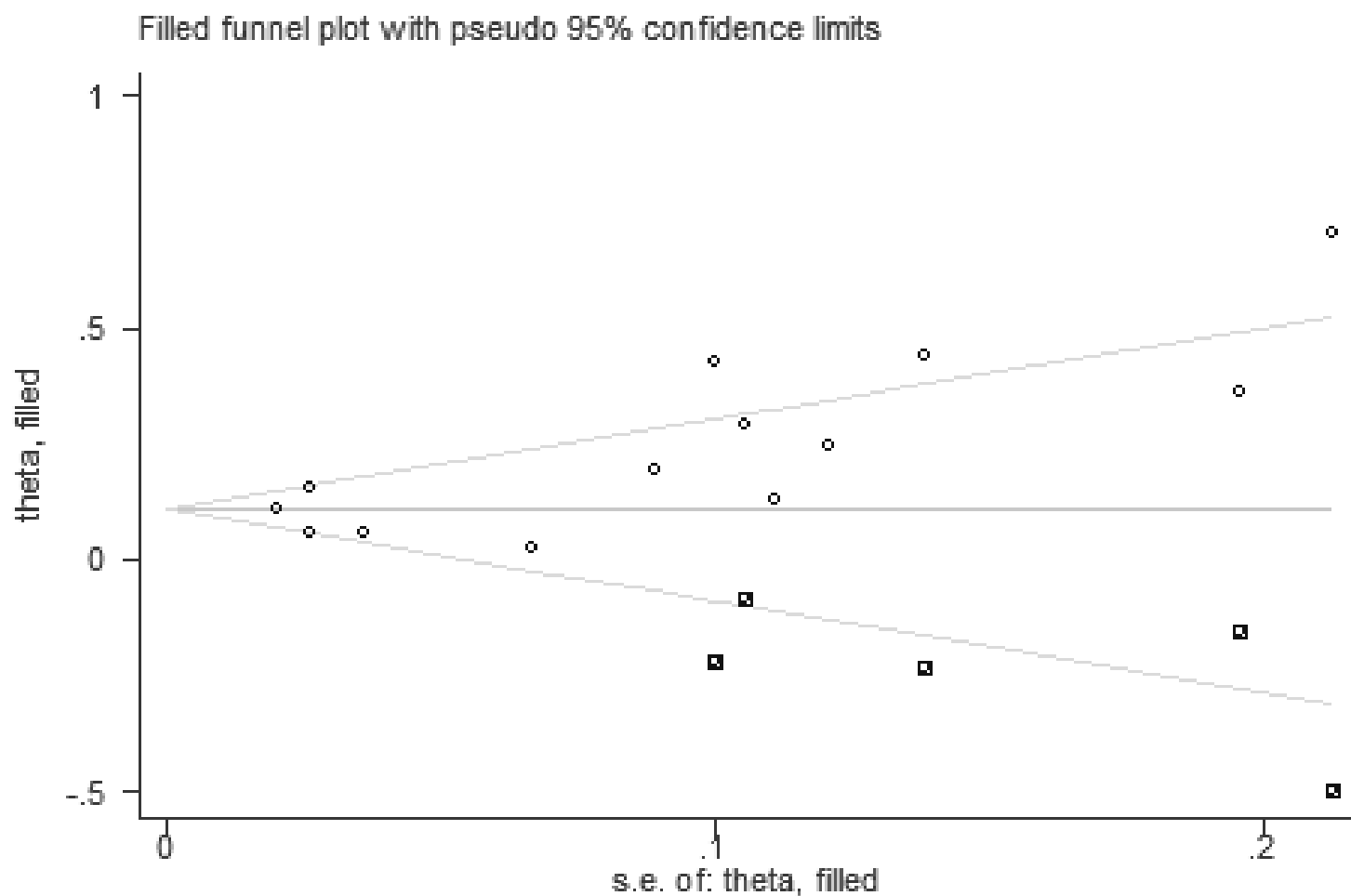
RR, relative risk; NOS, Newcastle-Ottawa Scale. Point estimates for each subgroup level (diamonds) are the pooled effect estimates. The dashed line represents the pooled effect estimate for the overall (total) analysis. The residual I² value indicates the inter-study heterogeneity unexplained by the subgroup.

Figure S11. Funnel plot of natural logarithm relative risk (RR) for incident hypertension comparing the highest and lowest quantiles of SSBs intake.



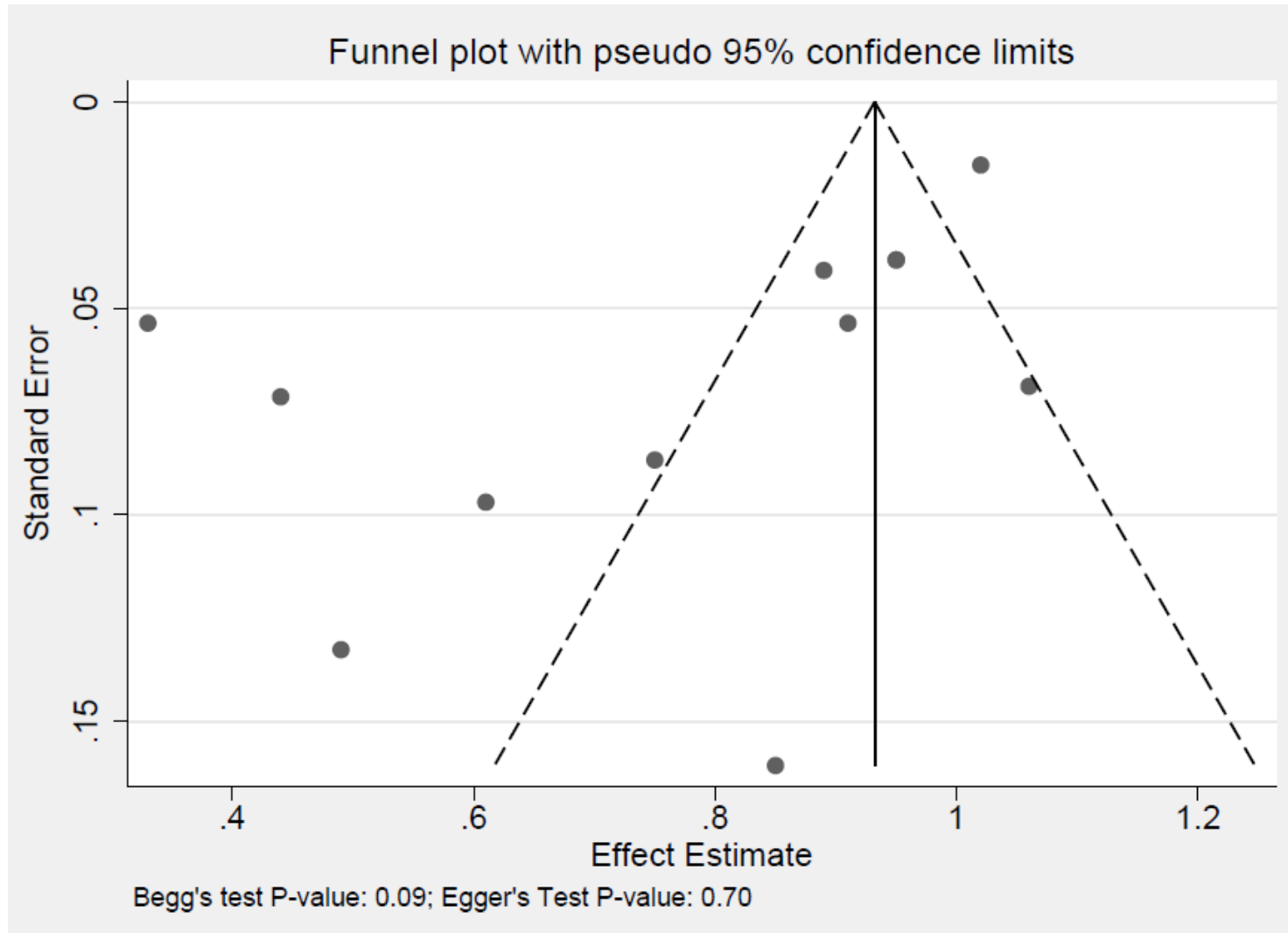
The vertical line represents the pooled effect estimate expressed as natural logarithm RR. Dashed lines represent pseudo-95% confidence intervals (CI). The circles represent risk effects for each cohort, and the horizontal lines represent standard errors of the effect estimate.

Figure S12. Trim and fill funnel plot of natural logarithm relative risk (RR) for incident hypertension comparing the highest and lowest quantiles of SSBs intake.



The horizontal line represents the pooled effect estimate expressed as natural logarithm RR. Diagonal lines represent pseudo-95% confidence intervals (CI). The circles represent risk effects for each cohort, and the squares represent filled data points. The horizontal axis represents standard errors of the effect estimate. Adjustment for funnel plot asymmetry by the recalculation of the pooled estimate by inputting missing cohort studies using the Duvall and Tweedie trim and fill method did not alter the significance of the relationship with only limited attenuation of the summary estimate (RR=1.12 [95% CI, 1.05, 1.19] versus original RR=1.17 [95% CI, 1.11, 1.23]).

Figure S13. Funnel plot of natural logarithm relative risk (RR) for incident hypertension comparing the highest and lowest quantiles of fruit intake.



The vertical line represents the pooled effect estimate expressed as natural logarithm RR. Dashed lines represent pseudo-95% confidence intervals (CI). The circles represent risk effects for each cohort, and the horizontal lines represent standard errors of the effect estimate.

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