Supplemental Digital Content 1: Search details

Search details in PubMed

(("urinary bladder neoplasms"[MeSH Terms] OR ("urinary"[All Fields] AND "bladder"[All Fields] AND "neoplasms"[All Fields]) OR "urinary bladder neoplasms"[All Fields] OR ("bladder"[All Fields] AND "neoplasm"[All Fields]) OR "bladder neoplasm"[All Fields]) OR ("bladder tumour"[All Fields] OR "urinary bladder neoplasms"[MeSH Terms] OR ("urinary"[All Fields] AND "bladder"[All Fields] AND "neoplasms"[All Fields]) OR "urinary bladder neoplasms"[All Fields] OR ("bladder"[All Fields] AND "tumor"[All Fields]) OR "bladder tumor"[All Fields]) OR ("urinary bladder neoplasms"[MeSH Terms] OR ("urinary"[All Fields] AND "bladder"[All Fields] AND "neoplasms"[All Fields]) OR "urinary bladder neoplasms"[All Fields] OR ("bladder"[All Fields] AND "cancer"[All Fields]) OR "bladder cancer"[All Fields]) OR (("urinary bladder"[MeSH Terms] OR ("urinary"[All Fields] AND "bladder"[All Fields]) OR "urinary bladder"[All Fields] OR "bladder"[All Fields]) AND ("carcinoma"[MeSH Terms] OR "carcinoma"[All Fields])) OR (("urothelium"[MeSH Terms] OR "urothelium"[All Fields]) AND ("carcinoma"[MeSH Terms] OR "carcinoma"[All Fields])) OR ("carcinoma, transitional cell"[MeSH Terms] OR ("carcinoma"[All Fields] AND "transitional"[All Fields] AND "cell"[All Fields]) OR "transitional cell carcinoma"[All Fields] OR ("transitional"[All Fields] AND "cell"[All Fields] AND "carcinoma"[All Fields]))) AND (ruit[All Fields] OR ("vegetables"[MeSH Terms] OR "vegetables"[All Fields] OR "vegetable"[All Fields]) OR ("brassicaceae"[MeSH Terms] OR "brassicaceae"[All Fields] OR "cruciferae"[All Fields]) OR ("citrous"[All Fields] OR "citrus"[MeSH Terms] OR "citrus"[All Fields]))

Search details in OvidSP (Embase)

#1 (bladder neoplasm or bladder tumor or bladder cancer or bladder carcinoma or urothelium carcinoma or transitional cell carcinoma).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]
#2 (fruit or vegetable or Cruciferae or citrus).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]
#3 #1 and #2

Search details in Willy online Library

Bladder neoplasm OR bladder tumor OR bladder cancer OR bladder carcinoma OR urothelium carcinoma OR transitional cell carcinoma **[in Abstract]** AND fruit OR vegetable OR cruciferae OR citrus **[in All Fields]**

Supplemental Digital Content 2: Supplemental Figures

Figure S1 that illustrates the forest plot (linear association) of green leafy vegetables (GLV) intake and risk of bladder cancer, with the dose scale was every 0.2 serving increment.

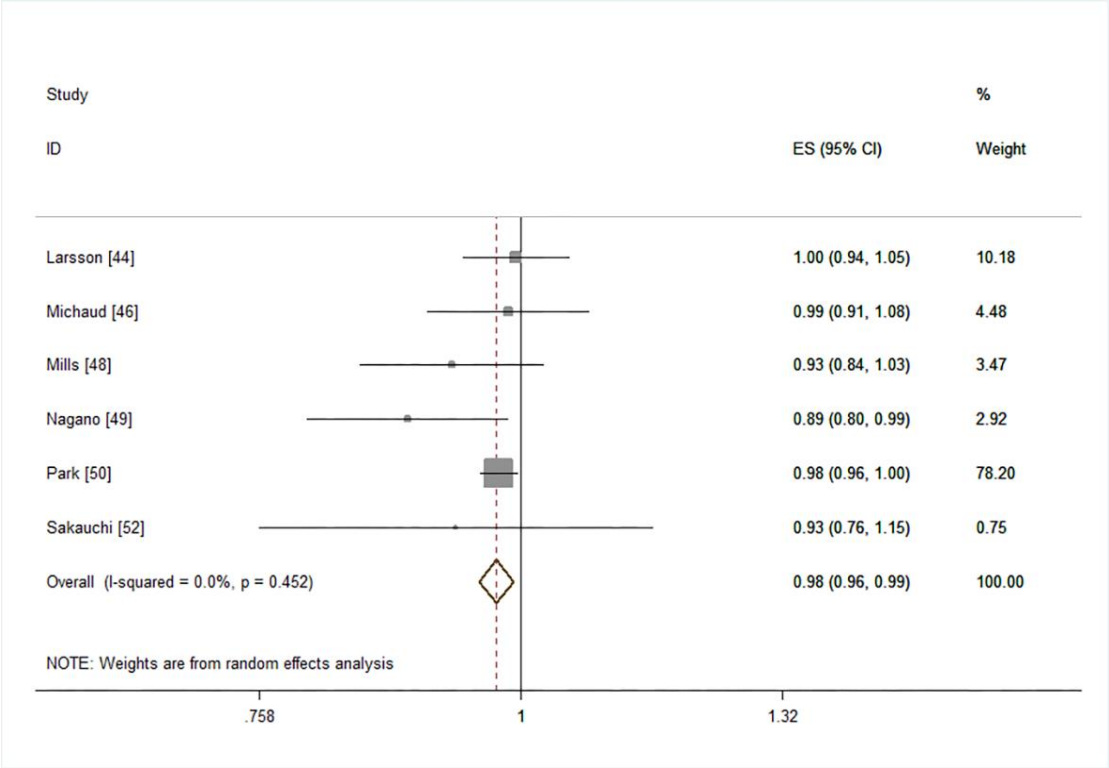


Figure S2 that illustrates the forest plot (linear association) of citrus intake and risk of bladder cancer, with the dose scale was every 0.2 serving increment.

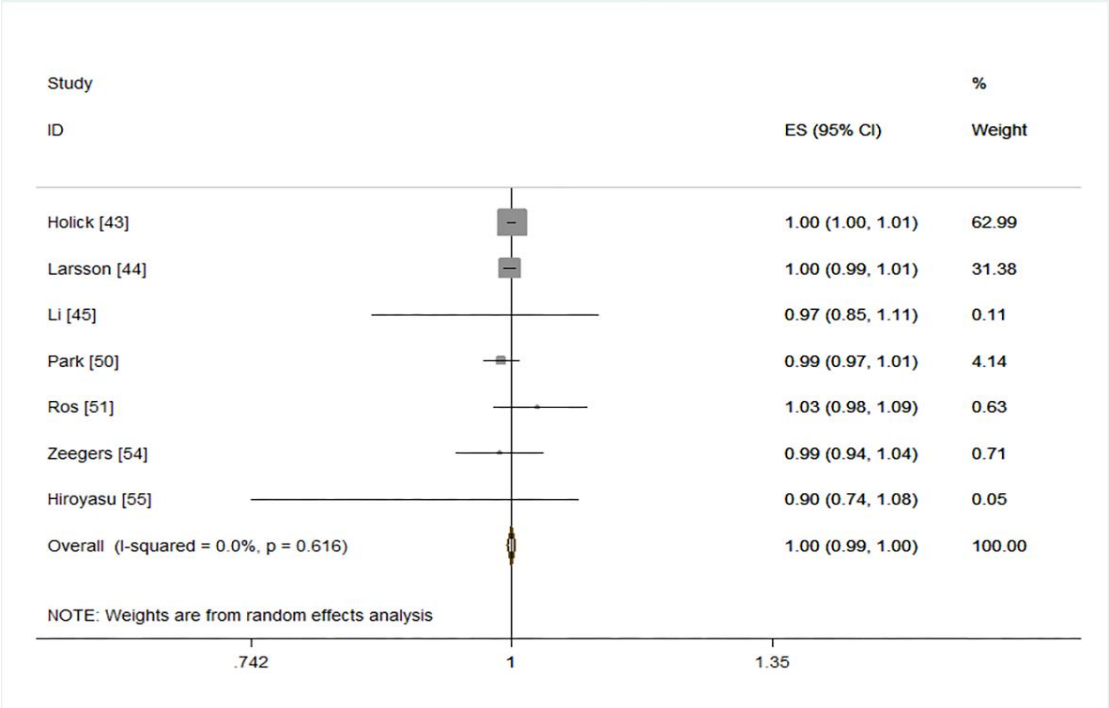


Figure S3 that illustrates the forest plot (linear association) of cruciferous intake and risk of bladder cancer, with the dose scale was every 0.2 serving increment.

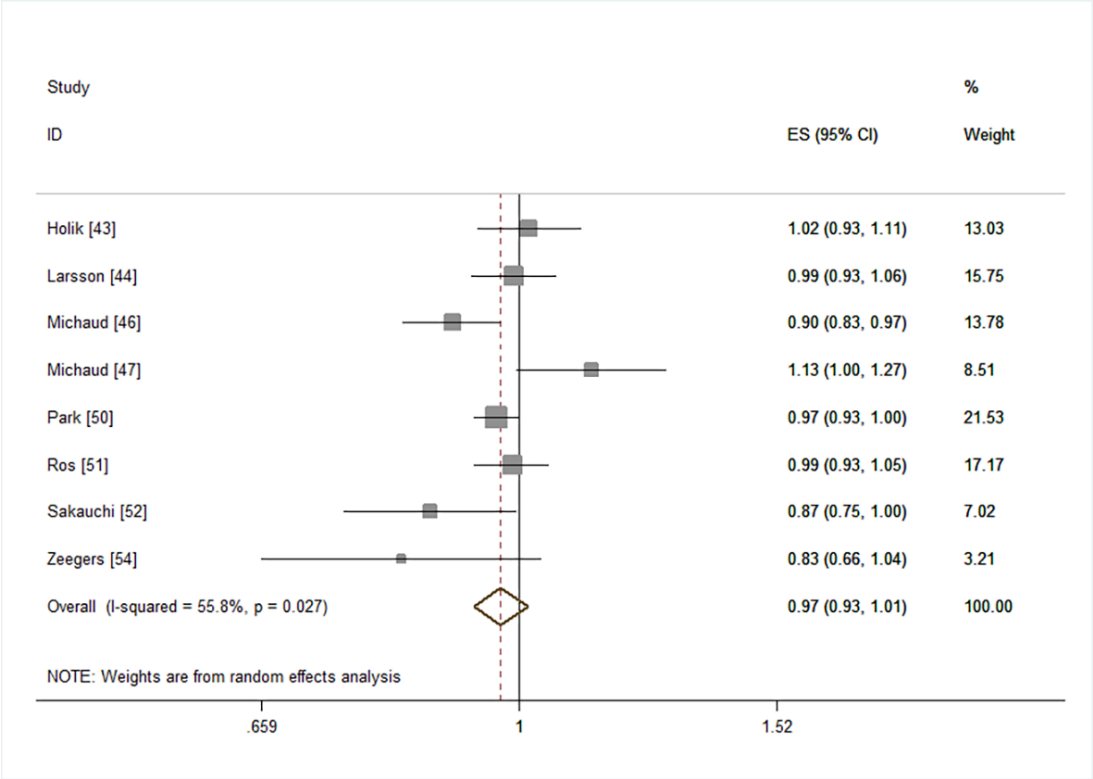


Figure S4 that illustrates filled funnel plot for fruit intake and risk of BC by trill and fill method.

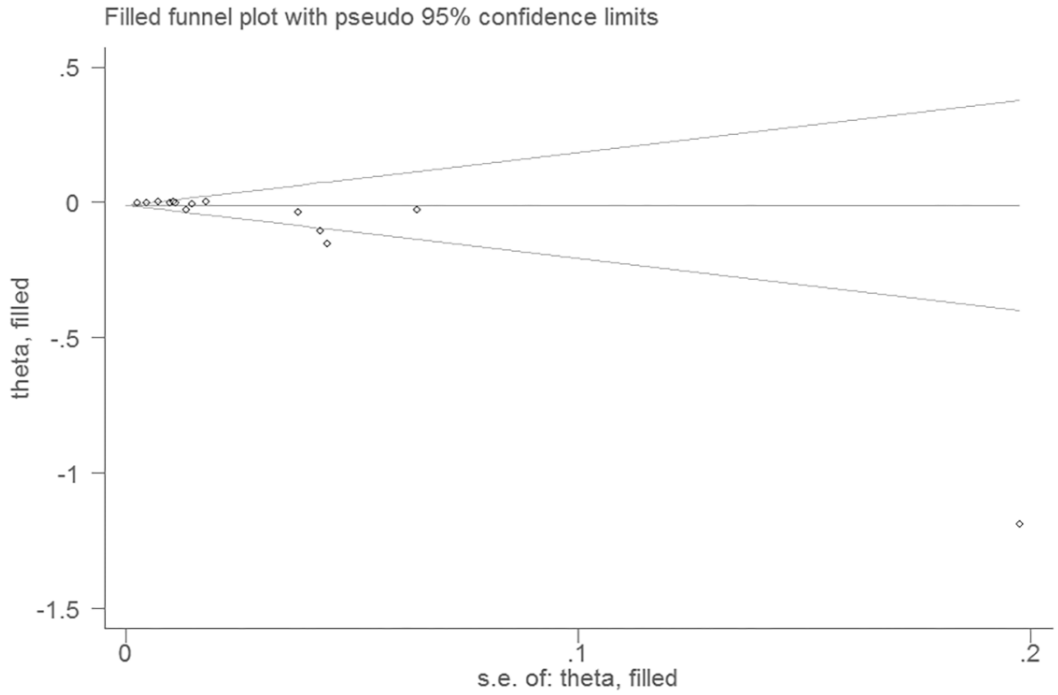
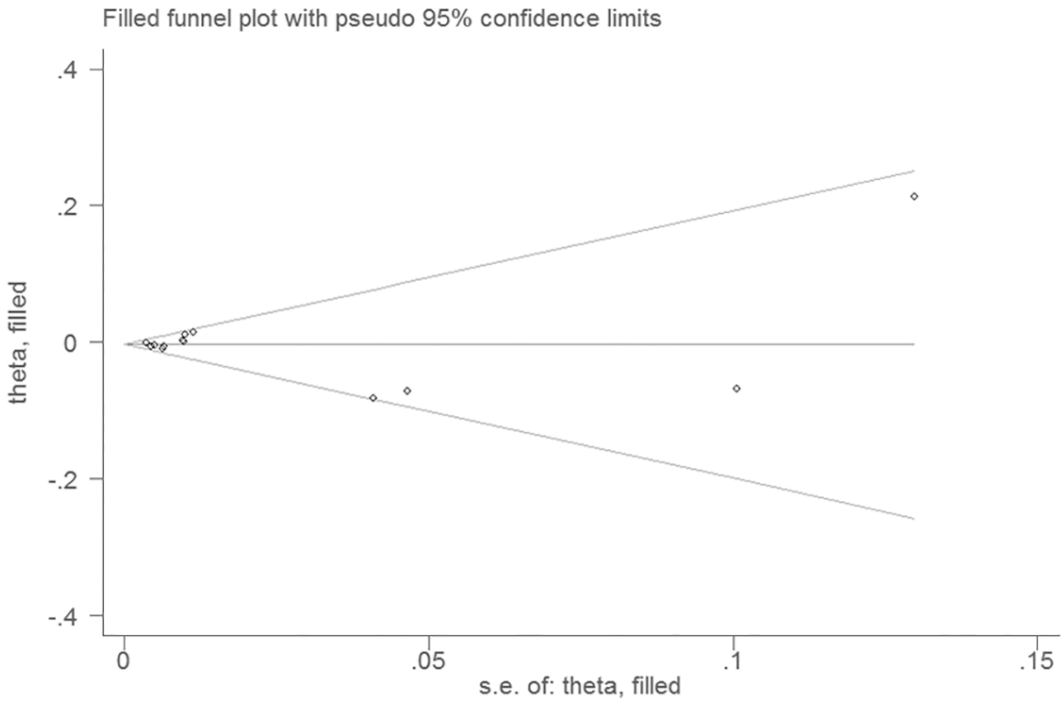


Figure S5 that illustrates filled funnel plot for vegetables intake and risk of BC by trill and fill method.



Supplemental Digital Content 3: Supplemental Tables

Table S2 Results of subgroup analysis of citrus, cruciferous, and green leafy vegetables (per 0.2 servings increment/day).

Subgroup analysis	Citrus (7)			Green leafy vegetables (6)			Cruciferous (8)		
	RRs (95%CI)	I^2	P	RRs (95%CI)	I^2	P	RRs (95%CI)	I^2	P
Geographical location:									
American	1.00(0.99, 1.01)	22.9%	0.72	0.98(0.96, 1.00)	0.0%	0.02	0.96(0.91, 1.02)	56.5%	0.16
European	1.00(0.98, 1.01)	0.0%	0.64	1.00(0.94, 1.05)	—	0.89	1.00(0.94, 1.06)	54.1%	0.98
Asian	0.95(0.85, 1.05)	0.0%	0.30	0.90(0.82, 0.99)	0.0%	0.03	0.87(0.75, 1.00)	—	0.04
Interaction test	—	0.0%	0.61	—	42.3%	0.18	—	47.3%	0.15
Primary unit:									
Serving or cup	1.00(1.00, 1.00)	0.0%	0.83	0.99(0.95, 1.04)	0.0%	0.78	0.97(0.91, 1.04)	65.8%	0.37
Gram	0.99(0.97, 1.01)	4.9%	0.48	0.98(0.96, 1.00)	—	0.03	0.99(0.93, 1.06)	61.6%	0.77
Time	0.95(0.85, 1.05)	0.0%	0.30	0.91(0.85, 0.98)	0.0%	<0.01	0.87(0.75, 1.00)	—	0.04
Interaction test	—	0.0%	0.47	—	53.0%	0.12	—	30.8%	0.24
Length of follow up:									
Less than 10 years	1.00(0.99, 1.01)	0.0%	0.72	0.98(0.93, 1.02)	0.0%	0.33	0.97(0.91, 1.02)	71.7%	0.21
10 years or over	1.00(0.99, 1.01)	22.9%	0.59	0.97(0.92, 1.01)	36.0%	0.14	0.99(0.92, 1.06)	47.2%	0.71
Interaction test	—	0.0%	1.00	—	0.0%	0.77	—	0.0%	0.65
Data assumption:									
Yes	0.99(0.97, 1.01)	4.9%	0.48	0.98(0.96, 1.00)	—	0.03	0.99(0.93, 1.06)	61.6%	0.77
No	1.00(1.00, 1.00)	0.0%	0.80	0.96(0.92, 1.01)	9.7%	0.09	0.95(0.89, 1.02)	65.8%	0.16
Interaction test	—	0.0%	0.55	—	0.0%	0.53	—	0.0%	0.45
Energy controlled:									
Yes	1.00(0.99, 1.01)	0.0%	0.67	1.00(0.94, 1.05)	—	0.89	1.01(0.96, 1.06)	51.0%	0.74

No	1.00(0.99, 1.00)	0.0%	0.81	0.97(0.95, 0.99)	3.5%	0.01	0.94(0.89, 0.99)	49.1%	0.03
Interaction test	—	0.0%	0.83	—	0.0%	0.43	—	69.2%	0.07

Table S3 Results of sensitivity analyses of citrus, cruciferous, and green leafy vegetables.

Sensitivity analysis	Citrus (7)			Cruciferous (8)			Green leafy vegetables (6)		
	RR (95%CI)	I^2	P	RR (95%CI)	I^2	P	RR (95%CI)	I^2	P
Primary results	1.00(0.99, 1.00)	0.00%	0.66	0.97(0.94, 1.01)	57.8%	0.17	0.98(0.96, 0.99)	0.00%	<0.01
Omitting item									
Adventist [48]	–	–	–	–	–	–	0.98(0.96, 1.00)	0.00%	0.01
High smoking rate [40, 42, 47]	–	–	–	0.97(0.93, 1.00)	46.80%	0.04	–	–	–
Did not adjust for smoking [42]	–	–	–	–	–	–	–	–	–
Atomic bomb survivors [42]	–	–	–	–	–	–	–	–	–
100% females [43, 50]	1.00(0.99, 1.01)	0.00%	0.59	0.97(0.92, 1.02)	62.50%	0.30	0.96 (0.92, 1.01)	9.70%	0.09
100% males [40, 46, 47]	–	–	–	0.98(0.95, 1.01)	29.40%	0.13	0.97 (0.95, 1.00)	13.60%	0.04
Urothelial cancer [40, 42, 51, 52, 54]	1.00(0.99, 1.00)	0.00%	0.65	0.98(0.94, 1.03)	65.00%	0.49	0.97 (0.95, 1.00)	12.10%	0.03
Low quality score [42, 48, 53, 55]	1.00(0.99, 1.00)	0.00%	0.68	–	–	–	0.98(0.96, 1.00)	0.00%	0.01
Fried or cooked vegetable [40, 48]	–	–	–	–	–	–	0.98(0.96, 1.00)	0.00%	0.01
Omitting 1 studies at a time*	Stable	–	–	Not stable [42]	–	–	Not stable [45]	–	–
Study [47]	–	–	–	0.97(0.93, 1.00)	46.80%	0.04	–	–	–
Study [50]	–	–	–	–	–	–	0.96 (0.92, 1.01)	9.70%	0.09

*We only presents those studies obviously influence the overall results; RRs assigned to per 0.2 servings increment/day.