Supplementary Table S1

Table S1: Characteristics of cohort studies in the systematic review								
num	**Firstauthor_Year_ Gender_Locatio**	**Cohort size**	**Numce r of case**	**Cancer type**	**Analytical Category**	**Consumption Categories**	**Adjusted RR (95CI)**	**adjusted**
1	Arbor J.L. Quis_2018_ M/F_USA_Processed meats	34550	75	Pancrase__	nitrite_ mg/day	0.01-0.03	0.98(0.72-1.35)	reference dose <0.010- adjusted: age, smoking ,calories
			72			0.04-0.06	1.02(0.73-1.41)	
			61			0.07-0.18	1.06(0.74-1.51)	
			22			>0.18	1.66(1-2.75)	
	Arbor J.L. Quis_2018_ M/F_USA_Animal sources	34550	71		nitrite_ mg/day	0.29-0.40	1.06(0.75-1.50)	reference dose <0.29 - adjusted: age, smoking ,calories
			77			0.41-0.56	1.08(0.74-1.57)	
			62			0.57-0.84	1.27(0.81-1.99)	
			18			>0.84	1.65(0.84-3.22)	
	Arbor J.L. Quis_2018_ M/F_USA_Food	34550	67		nitrite_ mg/day	0.86-1.11	0.85(0.59-1.22)	reference dose <0.86 - adjusted: age, smoking ,calories
			70			0.12-1.43	0.94(0.62-1.42)	
			68			1.44-2.05	1.3(0.79-2.14)	
			15			>2.05	1.28(0.59-2.76)	
	Arbor J.L. Quis_2018_ M/F_USA_Food	34550	80		nitrate_ mg/day	16.2-23.9	1.08(0.78-1.48)	reference dose: <16.2 - adjusted: age, smoking ,calories
			73			24-34.2	0.99(0.70-1.39)	
			60			34.3-58.5	1.05(0.72-1.52)	
			17			>58.5	1.25(0.71-2.21)	
	Arbor J.L. Quis_2018_ M/F_USA_Plant sources	34550	62		nitrite_ mg/day	0.51-0.67	0.68(0.48-0.96)	reference dose <0.51 - adjusted: age, smoking ,calories
			83			0.68-0.90	0.89(0.62-1.28)	
			59			0.91-1.39	0.8(0.52-1.24)	
			10			>1.39	0.55(0.25-1.17)	
	Arbor J.L. Quis_2018_ M/F_USA_Water	15862	41		nitrate_ mg/l	0.47-1.08	1.4(0.88-2.24)	reference dose<0.47-adj:age,smoking
			48			1.09-2.97	1.51(0.96-2.37)	
			25			2.98-5.69	1.14(0.67-1.93)	
			7			>797	1.18(0.52-2.67)	
2	Briseis Aschebrook-Kilfoy_2011_F_USA_Animal sources	292391	131	Pancrase__	nitrite_ mg/1000K cal	.15	0.97(0.76-1.23)	reference= 0.1- adjusted: age (continuous), race (non-Hispanic white, non-Hispanic black, other, or missing), total energy intake (continuous), smoking status, family history of cancer, family history of diabetes, body mass index (weight (kg)/height (m)2; <25, 2529.9, 3034.9, or 35), and intakes of saturated fat, folate, and vitamin C
			134			.2	1.06(0.83-1.34)	
			118			.25	0.99(0.77-1.27)	
			99			.36	0.94(0.72-1.22)	
	Briseis Aschebrook-Kilfoy_2011_F_USA_Food	292391	125		nitrite_ mg/1000K cal	.57	0.93(0.72-1.19)	reference= 0.45- adjusted: age (continuous), race (non-Hispanic white, non-Hispanic black, other, or missing), total energy intake (continuous), smoking status, family history of cancer, family history of diabetes, body mass index (weight (kg)/height
			111			.65	0.78(0.60-1.02)	
			138			.74	0.92(0.72-1.19)	
			127			.9	0.81(0.61-1.06)	

						(m)2; <25, 2529.9, 3034.9, or 35), and intakes of saturated fat, folate, and vitamin C
		101	nitrate_ mg/1000Kcal	29.9	0.89(0.67-1.19)	reference= 19.3- adjusted: age (continuous), race (non-Hispanic white, non-Hispanic black, other, or missing), total energy intake (continuous), smoking status, family history of cancer, family history of diabetes, body mass index (weight (kg)/height (m)2; <25, 2529.9, 3034.9, or 35), and intakes of saturated fat, folate, and vitamin C
		128		40.9	0.93(0.71-1.23)	
		136		57.4	0.84(0.64-1.11)	
		171		94.8	0.88(0.66-1.17)	
Briseis Aschebrook-Kilfoy_2011_F_USA_Plant sources	292391	127	nitrite_ mg/1000Kcal	.34	1.12(0.86-1.47)	reference= 0.25- adjusted: age (continuous), race (non-Hispanic white, non-Hispanic black, other, or missing), total energy intake (continuous), smoking status, family history of cancer, family history of diabetes, body mass index (weight (kg)/height (m)2; <25, 2529.9, 3034.9, or 35), and intakes of saturated fat, folate, and vitamin C
		116		.42	0.91(0.69-1.21)	
		151		.51	1.06(0.80-1.39)	
		136		.680	0.89(0.65-1.20)	
Briseis Aschebrook-Kilfoy_2011_M/F_USA_Animal sources	293501	340	nitrite_ mg/1000Kcal	.15	1.07(0.92-1.25)	reference= 0.1- adjusted: age (continuous), race (non-Hispanic white, non-Hispanic black, other, or missing), total energy intake (continuous), smoking status, family history of cancer, family history of diabetes, body mass index (weight (kg)/height (m)2; <25, 2529.9, 3034.9, or 35), and intakes of saturated fat, folate, and vitamin C
	293494	363		.2	1.11(0.95-1.30)	
	293529	378		.25	1.11(0.95-1.30)	
	293516	347		.36	0.96(0.82-1.13)	
Briseis Aschebrook-Kilfoy_2011_M/F_USA_Food	293522	361	nitrite_ mg/1000Kcal	.57	0.99(0.86-1.16)	reference= 0.45- adjusted: age (continuous), race (non-Hispanic white, non-Hispanic black, other, or missing), total energy intake (continuous), smoking status, family history of cancer, family history of diabetes, body mass index (weight (kg)/height (m)2; <25, 2529.9, 3034.9, or 35), and intakes of saturated fat, folate, and vitamin C
	293462	331		.65	0.92(0.79-1.08)	
	293499	348		.74	0.97(0.83-1.14)	
	293490	321		.9	0.92(0.78-1.08)	
	293491	330	nitrate_ mg/1000Kcal	29.9	0.91(0.78-1.06)	reference= 19.3- adjusted: age (continuous), race (non-Hispanic white, non-Hispanic black, other, or missing), total energy intake (continuous), smoking status, family history of cancer, family history of diabetes, body mass index (weight (kg)/height (m)2; <25, 2529.9, 3034.9, or 35), and intakes of saturated fat, folate, and vitamin C
		360		40.9	1.02(0.88-1.18)	
		340		57.4	0.99(0.85-1.16)	
		322		94.8	1.01(0.85-1.20)	
Briseis Aschebrook-Kilfoy_2011_M/F_USA_Plant sources	293541	380	nitrite_ mg/1000Kcal	.34	1.02(0.88-1.18)	reference= 0.25- adjusted: age (continuous), race (non-Hispanic white, non-Hispanic black, other, or missing), total energy intake (continuous), smoking status, family history of cancer, family history of diabetes, body mass index (weight (kg)/height
	293446	315		.42	0.87(0.74-1.01)	
	293501	350		.51	0.99(0.84-1.16)	
	293472	303		.680	0.91(0.76-1.09)	

							(m)2; <25, 2529.9, 3034.9, or 35), and intakes of saturated fat, folate, and vitamin C
	Briseis Aschebrook-Kilfoy_2011_M_USA_Animal sources	292866	209		nitrite_ mg/1000Kcal	.15	1.16(0.94-1.44)	reference= 0.1- adjusted: age (continuous), race (non-Hispanic white, non-Hispanic black, other, or missing), total energy intake (continuous), smoking status, family history of cancer, family history of diabetes, body mass index (weight (kg)/height (m)2; <25, 2529.9, 3034.9, or 35), and intakes of saturated fat, folate, and vitamin C
			229			.2	1.16(0.94-1.43)	
			260			.25	1.21(0.98-1.48)	
			248			.36	0.99(0.80-1.23)	
	Briseis Aschebrook-Kilfoy_2011_M_USA_Food	292866	236		nitrite_ mg/1000Kcal	.57	1.03(0.86-1.24)	reference= 0.45- adjusted: age (continuous), race (non-Hispanic white, non-Hispanic black, other, or missing), total energy intake (continuous), smoking status, family history of cancer, family history of diabetes, body mass index (weight (kg)/height (m)2; <25, 2529.9, 3034.9, or 35), and intakes of saturated fat, folate, and vitamin C
			220			.65	1(0.82-1.21)	
			210			.74	0.99(0.81-1.20)	
			194			.9	0.97(0.79-1.20)	
			229		nitrate_ mg/1000Kcal	29.9	0.91(0.76-1.09)	reference= 19.3- adjusted: age (continuous), race (non-Hispanic white, non-Hispanic black, other, or missing), total energy intake (continuous), smoking status, family history of cancer, family history of diabetes, body mass index (weight (kg)/height (m)2; <25, 2529.9, 3034.9, or 35), and intakes of saturated fat, folate, and vitamin C
			232			40.9	1.05(0.88-1.25)	
			204			57.4	1.07(0.89-1.30)	
			151			94.8	1.07(0.86-1.33)	
	Briseis Aschebrook-Kilfoy_2011_M_USA_Plant sources	292866	253		nitrite_ mg/1000Kcal	.34	0.98(0.82-1.16)	reference= 0.25- adjusted: age (continuous), race (non-Hispanic white, non-Hispanic black, other, or missing), total energy intake (continuous), smoking status, family history of cancer, family history of diabetes, body mass index (weight (kg)/height (m)2; <25, 2529.9, 3034.9, or 35), and intakes of saturated fat, folate, and vitamin C
			199			.42	0.85(0.70-1.03)	
			199			.51	0.95(0.78-1.17)	
			167			.680	0.94(0.75-1.18)	
3	Cross, A. J._2010_ M/F_USA_Animal sources	300948	488	Colorectal__	nitrite_ microg/1000kcals	34.6	0.99(0.87-1.12)	reference dose:12.1- adjusted: gender, education, BMI, smoking, total energy, fiber, calcium
			554			61.4	1.07(0.94-1.21)	
			603			102.9	1.12(0.98-1.27)	
			617			199.2	1.11(0.97-1.25)	
			470		nitrate_ microg/1000kcals	66.90	0.96(0.85-1.10)	reference dose:24.2- adjusted: gender, education, BMI, smoking, total energy, fiber, calcium,
			530			112.7	1.04(0.91-1.18)	
			609			174.5	1.13(1.00-1.29)	
			659			298	1.16(1.02-1.32)	
		298953	129	Rectum__	nitrite_ microg/1000kcals	34.6	1.07(0.83-1.38)	reference dose:12.1- adjusted: gender, education, BMI, smoking, total energy, fiber, calcium
			157			61.4	1.23(0.96-1.58)	
			162			102.9	1.21(0.94-1.55)	
			163			199.2	1.16(0.90-1.50)	

		126		nitrate_ microg/10 00kcals	66.900	1.08(0.83-1.40)	
		144			112.7	1.18(0.91-1.52)	reference dose:24.2- adjusted: gender, education, BMI, smoking, total energy, fiber, calcium,
		170			174.5	1.31(1.01-1.68)	
		174			298	1.26(0.97-1.63)	
	300224	359	Colon__	nitrite_ microg/10 00kcals	34.6	0.96(0.83-1.12)	
		397			61.4	1.01(0.88-1.18)	reference dose:12.1- adjusted: gender, education, BMI, smoking, total energy, fiber, calcium
		441			102.9	1.09(0.94-1.26)	
		454			199.2	1.09(0.94-1.26)	
		344		nitrate_ microg/10 00kcals	66.900	0.93(0.80-1.08)	
		386			112.7	0.99(0.86-1.16)	reference dose:24.2- adjusted: gender, education, BMI, smoking, total energy, fiber, calcium,
		439			174.5	1.08(0.93-1.25)	
		485			298	1.13(0.97-1.32)	
4	337451	61	Esophagus_Ad enocarcinoma	nitrate_ microg/10 00kcals	66.90	0.97(0.66-1.43)	reference dose:24.2
		68			112.7	0.91(0.62-1.35)	
		89			174.5	1.01(0.70-1.47)	
		112			298	1.1(0.75-1.60)	
		60		nitrite_ microg/10 00kcals	34.6	0.89(0.61-1.30)	reference dose:12.1
		66			61.4	0.82(0.56-1.20)	
		81			102.9	0.88(0.61-1.27)	
		120			199.2	1.19(0.84-1.68)	
	337202	25	Esophagus__ Squamous cell carcinoma	nitrate_mi crog/1000 kcals	66.90	1.06(0.59-1.91)	reference dose:24.2
		15			112.7	0.6(0.30-1.18)	
		25			174.5	0.9(0.49-1.67)	
		41			298	1.3(0.72-2.35)	
		30		nitrite_mic rog/1000k cals	34.6	1.36(0.76-2.43)	reference dose:12.1
		19			61.4	0.82(0.43-1.57)	
		28			102.9	1.15(0.63-2.11)	
		31			199.2	1.21(0.67-2.20)	
	337351	44	Stomach_ Noncardia _	nitrite_mic rog/1000k cals	34.6	0.77(0.51-1.15)	reference dose:12.1
		48			61.4	0.79(0.53-1.18)	
		67			102.9	1.04(0.71-1.52)	
		64			199.2	0.93(0.63-1.37)	
		48		nitrate_mi crog/1000 kcals	66.0	0.9(0.60-1.35)	reference dose:24.2
		50			112.7	0.89(0.59-1.33)	
		56			174.5	0.91(0.61-1.37)	
		73			298	1.04(0.69-1.55)	
	337329	40	Stomach_ Cardia _Adenocarcin oma	nitrite_mic rog/1000k cals	34.6	0.72(0.47-1.11)	reference dose:12.1
		55			61.4	0.88(0.58-1.32)	
		61			102.9	0.87(0.58-1.31)	
		55			199.2	0.71(0.47-1.08)	
Cross, A. J._2011_ M/F_USA_Animal sources							

			57		nitrate_microg/1000 kcals	66.90	1.17(0.77-1.77)	reference dose:24.2
			36			112.7	0.64(0.40-1.02)	
			61			174.5	0.94(0.61-1.45)	
			62			298	0.81(0.52-1.25)	
5		73118	121	Colorectal__	nitrite_mg/day	.08	0.96(0.75-1.23)	reference dose:0.05- adjusted: age, energy intake, education, physical activity, vitamin C, carotene ,folate
			121			.11	1.06(0.82-1.35)	
			107			.14	0.97(0.75-1.26)	
			119			.19	1.17(0.90-1.51)	
		72882	74	Colon__		.08	0.99(0.72-1.35)	
			78			.11	1.14(0.83-1.56)	
			72			.14	1.09(0.79-1.51)	
			69			.19	1.14(0.81-1.59)	
		72735	47	Rectum__		.08	0.92(0.63-1.36)	
			43			.11	0.93(0.62-1.39)	
			35			.14	0.79(0.51-1.23)	
			50			.19	1.21(0.81-1.82)	
	DellaValle, Curt T_2014_M/F__Animal sources	73118	142	Colorectal__	nitrate_ mg/day	.85	1.31(1.03-1.66)	reference dose:0.51- adjusted: age, energy intake, education, physical activity, vitamin C, carotene, folate
			113			1.13	1.12(0.87-1.45)	
			124			1.45	1.28(0.99-1.66)	
			110			2.06	1.15(0.88-1.50)	
		72882	86	Colon__		.85	1.34(0.98-1.82)	
			72			1.13	1.21(0.87-1.68)	
			79			1.45	1.38(1-1.91)	
			69			2.06	1.22(0.87-1.72)	
		72735	56	Rectum__		.85	1.26(0.86-1.85)	
			41			1.13	1(0.66-1.52)	
			45			1.45	1.14(0.76-1.73)	
			41			2.06	1.05(0.68-1.61)	
	DellaValle, Curt T_2014_M/F__Food	73118	126	Colorectal__	nitrite_ mg/day	.74	1.09(0.85-1.40)	reference dose:0.56- adjusted: age, energy intake, education, physical activity, vitamin C, carotene, folate
			123			.87	1.1(0.85-1.43)	
			122			1.01	1.1(0.84-1.44)	
			119			1.23	1.05(0.77-1.42)	
		72882	81	Colon__		.74	1.27(0.92-1.76)	
			75			.87	1.23(0.88-1.73)	
			80			1.01	1.34(0.94-1.90)	
			75			1.23	1.26(0.85-1.86)	
		72735	45	Rectum__		.74	0.87(0.58-1.29)	
			48			.87	0.94(0.63-1.42)	
			42			1.01	0.81(0.52-1.25)	
			44			1.23	0.8(0.49-1.29)	

		73118	109	Colorectal__	nitrate_ mg/day	144.1	0.9(0.69-1.17)
			106			182.4	0.88(0.66-1.16)
			138			229	1.14(0.85-1.54)
			137			313.2	1.08(0.73-1.59)
		72882	70	Colon__		144.1	0.9(0.65-1.25)
			65			182.4	0.84(0.59-1.20)
			87			229	1.13(0.77-1.66)
			78			313.2	0.98(0.59-1.63)
		72735	39	Rectum__		144.1	0.9(0.58-1.40)
			41			182.4	0.95(0.60-1.50)
			51			229	1.17(0.72-1.90)
			59			313.2	1.26(0.69-2.32)
	DellaValle, Curt T_2014_M/F__Plant sources	73118	130	Colorectal__	nitrite_ mg/day	.63	1.17(0.91-1.50)
			133			.75	1.22(0.94-1.58)
			117			.89	1.06(0.80-1.40)
			119			1.11	1.03(0.76-1.39)
		72882	82	Colon__		.63	1.38(0.99-1.93)
			82			.75	1.43(1.02-2.02)
			76			.89	1.34(0.93-1.91)
			78			1.11	1.36(0.92-2.01)
		72735	48	Rectum__		.63	0.91(0.62-1.35)
			51			.75	0.97(0.65-1.45)
			41			.89	0.75(0.48-1.16)
			41			1.11	0.67(0.41-1.09)
		73118	110	Colorectal__	nitrate_ mg/day	142.8	0.92(0.70-1.19)
			106			181.1	0.88(0.67-1.17)
			137			227.8	1.15(0.85-1.55)
			138			311.9	1.1(0.75-1.63)
		72882	70	Colon__		142.8	0.9(0.65-1.26)
			64			181.1	0.83(0.58-1.19)
			87			227.8	1.15(0.78-1.68)
			79			311.9	1.01(0.61-1.68)
		72735	40	Rectum__		142.8	0.94(0.61-1.46)
			42			181.1	0.99(0.63-1.56)
			50			227.8	1.17(0.72-1.90)
			59			311.9	1.28(0.70-2.36)
6	Jones, R.R. _2019_ M/F_USA_Processed meats	36032	351	Colon__	nitrite_ mg/day	<=0.02	0.97(0.82-1.15)
			392			0.02-0.04	1.11(0.94-1.31)
			361			>0.04	1.03(0.86-1.22)
		35033	86	Rectum__		<=0.02	0.88(0.63-1.23)

	reference dose:98.7- adjusted: age, energy intake, education, physical activity, vitamin C, carotene, folate
	reference dose:0.47- adjusted: age, energy intake, education, physical activity, vitamin C, carotene ,folate
	reference dose:97.6- adjusted: age, energy intake, education, physical activity, vitamin C, carotene ,folate
	reference dose=0- adjusted: age, heme iron, red meat
	reference dose=0- adjusted: age

			99			0.02-0.04	1.03(0.74-1.43)	
			82			>0.04	0.84(0.59-1.19)	
	Jones, R.R. _2019_ M/F_USA_Animal sources	36032	326	Colon__		0.20-0.24	0.92(0.79-1.08)	reference dose <=0.19 - adjusted: age, heme iron, red meat
			345			0.25-0.30	0.94(0.80-1.09)	
			292			>0.30	0.82(0.70-0.97)	
		35033	97	Rectum__		0.20-0.24	1.26(0.94-1.69)	reference dose <=0.19 - adjusted: age
			80			0.25-0.30	1.02(0.75-1.38)	
			66			>0.30	0.89(0.64-1.23)	
	Jones, R.R. _2019_ M/F_USA_Food	36032	324	Colon__	nitrate_ mg/day	9.81-13.80	0.98(0.84-1.15)	reference dose: <=9.80 - adjusted: age, heme iron, red meat
			321			13.81-19.29	0.97(0.83-1.13)	
			355			>19.29	1.11(0.94-1.30)	
			342		nitrite_ mg/day	0.58-0.65	0.93(0.80-1.08)	reference dose<=0.57- adjusted: age, heme iron, red meat
			320			0.66-0.74	0.83(0.71-0.97)	
			317			>0.74	0.87(0.74-1.02)	
		35033	81	Rectum__	nitrate_ mg/day	9.81-13.80	1.03(0.76-1.41)	reference dose: <=9.80- adjusted: age
			71			13.81-19.29	0.91(0.66-1.26)	
			94			>19.29	1.27(0.93-1.74)	
			74		nitrite_ mg/day	0.58-0.65	0.75(0.55-1.02)	reference dose<=0.57- adjusted: age
			91			0.66-0.74	0.88(0.65-1.18)	
			67			>0.74	0.68(0.49-0.94)	
	Jones, R.R. _2019_ M/F_USA_Plant sources	36032	368	Colon__	nitrite_ mg/day	0.33-0.39	0.97(0.83-1.13)	reference dose<=0.32- adjusted: age, heme iron, red meat
			308			0.40-0.48	0.99(0.85-1.18)	
			339			>0.48	0.96(0.81-1.14)	
		35033	102	Rectum__	nitrite_ mg/day	0.33-0.39	1.12(0.83-1.52)	reference dose<=0.32- adjusted: age
			75			0.40-0.48	1(0.72-1.39)	
			75			>0.48	0.86(0.61-1.21)	
	Jones, R.R. _2019_ M/F_USA_Water	12893	126	Colon__	nitrate_ mg/l	0.37-0.80	1.13(0.88-1.45)	reference dose<=0.36
			146			0.81-1.35	1.32(1.03-1.69)	
			116			1.36-3.51	0.98(0.76-1.27)	
			106			>3.51	0.97(0.75-1.26)	
		12436	18	Rectum__		0.37-0.80	0.48(0.28-0.84)	
			35			0.81-1.35	0.86(0.53-1.38)	
			39			1.36-3.51	0.94(0.60-1.48)	
			24			>3.51	0.93(0.38-1.07)	
		13526	96	Colon__		>5	0.91(0.73-1.13)	reference dose:0 years
		13654	69			>5	0.82(0.63-1.06)	
		13654	19	Rectum__		>5	0.86(0.53-1.41)	
		13069	25			>5	0.97(0.63-1-50)	
7	Keszei, András P_2012_	1857	12	Esophagus_	nitrite_	.08	0.92(0.39-2.16)	

F_Netherland_Animal sources		7	_Adenocarcinoma	mg/day	.2	0.61(0.25-1.53)	reference dose=0.02- adjusted: age, smoking, total intake energy, BMI, alcohol, vegetable intake, fruit intake, level of education, physical activity,
Keszei, András P_2012_ F_Netherland_Food	1938	10		NDMA_ micro/day	.04	0.79(0.32-1.91)	reference dose<=0.03- adjusted: age, smoking, total intake energy, BMI, alcohol, vegetable intake, fruit intake, level of education, physical activity,
		11			.07	0.92(0.40-2.14)	
	1855	4		nitrate_ mg/day	142.7	0.26(0.05-1.37)	reference dose=66.4- adjusted: age, smoking, total intake energy, BMI, alcohol, vegetable intake, fruit intake, level of education, physical activity,
		13			98.5	0.9(0.35-2.28)	
Keszei, András P_2012_ M_Netherland_Animal sources	1735	38		nitrite_ mg/day	.12	0.86(0.53-1.39)	reference dose :0.02 - adjusted: age, smoking, total intake energy, BMI, alcohol, vegetable intake ,fruit intake, level of education, physical activity,
		34			.28	0.74(0.43-1.28)	
Keszei, András P_2012_ M_Netherland_Food	1754	39		NDMA_ micro/day	.04	0.93(0.57-1.50)	reference dose<=0.03-adj:age, smoking, total intake energy, BMI, alcohol, vegetable intake, fruit intake, level of education, physical activity,
		38			.07	0.87(0.52-1.45)	
	1736	39		nitrate_ mg/day	142.7	0.94(0.50-1.77)	reference dose=66.4-adj:age, smoking, total intake energy, BMI, alcohol, vegetable intake, fruit intake, level of education, physical activity,
		36			98.5	0.95(0.58-1.55)	
Keszei, András P_2012_ F_Netherland_Animal sources	1874	18	Esophagus__ Squamous cell carcinoma	nitrite_ mg/day	.08	0.99(0.48-2.03)	reference dose :0.02- adjusted: age, smoking, total intake energy, BMI, alcohol, vegetable intake, fruit intake, level of education, physical activity,
		14			.2	0.85(0.39-1.88)	
Keszei, András P_2012_ F_Netherland_Food	1954	14		NDMA_ micro/day	.04	0.92(0.43-1.97)	reference dose<=0.03- adjusted: age, smoking, total intake energy, BMI, alcohol, vegetable intake ,fruit intake, level of education, physical activity,
		21			.07	1.21(0.56-2.62)	
	1872	15		nitrate_ mg/day	142.7	0.75(0.23-2.40)	reference dose=66.4- adjusted: age, smoking, total intake energy, BMI, alcohol, vegetable intake, fruit intake, level of education, physical activity,
		18			98.5	1.17(0.55-2.47)	
Keszei, András P_2012_ M_Netherland_Animal sources	1680	19		nitrite_ mg/day	.12	1.27(0.62-2.62)	reference dose: 0.03 - adjusted: age, smoking ,total intake energy, BMI, alcohol, vegetable intake, fruit intake, level of education, physical activity,
		23			.28	1.92(0.94-3.89)	
Keszei, András P_2012_ M_Netherland_Food	1697	15		NDMA_ micro/day	.08	1.21(0.54-2.74)	reference dose<=0.04- adjusted: age, smoking, total intake energy, BMI, alcohol, vegetable intake, fruit intake, level of education, physical activity,
		29			.25	2.43(1.13-5.23)	
	1681	21		nitrate_ mg/day	100.8	1.5(0.72-3.12)	reference dose=68.1- adjusted: age, smoking, total intake energy, BMI, alcohol, vegetable intake, fruit intake, level of education, physical activity,
		14			146.2	1.51(0.49-4.62)	
Keszei, András P_2012_ F_Netherland_Animal sources	1850	9	Stomach_ Cardia _	nitrite_ mg/day	.12	0.97(0.36-2.58)	reference dose: 0.03 - adjusted: age, smoking, total intake energy, BMI, alcohol, vegetable intake, fruit intake, level of education, physical activity,
		6			.28	0.62(0.20-1.90)	
Keszei, András P_2012_ F_Netherland_Food	1848	10		nitrate_ mg/day	142.7	1.61(0.32-8.06)	reference dose:66.4 - adjusted: age, smoking, total intake energy, BMI, alcohol, vegetable intake, fruit intake, level of education, physical activity,
		7			98.5	1.01(0.30-3.42)	
Keszei, András P_2012_	1760	39		nitrite_	.12	0.8(0.51-1.27)	

	M_Netherland_Animal sources		53		mg/day	.28	1.18(0.75-1.86)	reference dose: 0.02- adjusted: age, smoking, total intake energy, BMI, alcohol, vegetable intake ,fruit intake, level of education, physical activity,
	Keszei, András P_2012_ M_Netherland_Food	1776	47		NDMA_ micro/day	.08	1(0.64-1.56)	reference dose<=0.04- adjusted: age, smoking, total intake energy, BMI, alcohol, vegetable intake ,fruit intake ,level of education ,physical activity,
			45			.25	0.94(0.59-1.49)	
		1761	47		nitrate_ mg/day	100.8	1.06(0.68-1.65)	reference dose :68.1- adjusted: age, smoking, total intake energy, BMI ,alcohol, vegetable intake, fruit intake, level of education, physical activity,
			43			146.2	1.01(0.57-1.77)	
	Keszei, András P_2012_ F_Netherland_Food	1931	9	Stomach_ Cardia _Adenocarcinoma	NDMA_ micro/day	.04	0.97(0.34-2.78)	reference dose<=0.03- adjusted: age, smoking, total intake energy, BMI, alcohol, vegetable intake, fruit intake, level of education, physical activity,
			10			.07	1.02(0.33-3.14)	
	Keszei, András P_2012_ F_Netherland_Animal sources	1986	50	Stomach_ Noncardia _	nitrite_ mg/day	.08	0.94(0.62-1.41)	reference dose: 0.02- adjusted: age, smoking, total intake energy, BMI, alcohol, vegetable intake, fruit intake, level of education, physical activity,
			54			.2	1.08(0.71-1.63)	
	Keszei, András P_2012_ F_Netherland_Food	2071	70		NDMA_ micro/day	.04	1.37(0.92-2.02)	reference dose<=0.03- adjusted: age, smoking, total intake energy, BMI, alcohol, vegetable intake, fruit intake, level of education, physical activity,
			44			.07	0.9(0.58-1.42)	
		1984	55		nitrate_ mg/day	142.7	0.78(0.44-1.39)	reference dose:66.4 - adjusted: age, smoking, total intake energy, BMI, alcohol, vegetable intake, fruit intake, level of education, physical activity,
			46			98.5	0.73(0.47-1.11)	
	Keszei, András P_2012_ M_Netherland_Animal sources	1950	109		nitrite_ mg/day	.12	1.1(0.80-1.50)	reference dose: 0.02 - adjusted: age, smoking, total intake energy, BMI, alcohol, vegetable intake, fruit intake ,level of education, physical activity,
			122			.28	1.23(0.89-1.70)	
	Keszei, András P_2012_ M_Netherland_Food	1967	105		NDMA_ micro/day	.04	1.09(0.79-1.50)	reference dose<=0.03- adjusted: age, smoking, total intake energy, BMI, alcohol, vegetable intake ,fruit intake, level of education, physical activity,
			125			.07	1.31(0.95-1.81)	
		1951	93		nitrate_ mg/day	142.7	1.05(0.70-1.59)	reference dose :66.4- adjusted: age, smoking, total intake energy, BMI, alcohol, vegetable intake, fruit intake, level of education, physical activity,
			125			98.5	1.23(0.90-1.68)	
8	Knekt, P._1999_ M/F__Food	10053	17	Stomach__	nitrite_	Q2	1.1(0.58-2.11)	adjusted: sex, age, municipality, smoking, energy intake
			17			Q3	1.88(1.01-3.49)	
			17			Q4	0.71(0.28-1.78)	
			17		nitrate_	Q2	1.01(0.56-1.84)	
			17			Q3	0.52(0.25-1.08)	
			17			Q4	0.56(0.27-1.18)	
			17		NDMA_	Q2	1.03(0.55-1.95)	
			17			Q3	0.78(0.39-1.56)	
			17			Q4	0.75(0.37-1.51)	
		10058	19	Colorectal__	nitrite_	Q2	0.82(0.45-1.48)	
			19			Q3	0.94(0.50-1.78)	

			19			Q4	0.74(0.34-1.63)	
			19		nitrate_	Q2	1.01(0.52-1.92)	
			19			Q3	0.98(0.51-1.87)	
			19			Q4	1.04(0.54-2.02)	
			19		NDMA_	Q2	1.47(0.69-3.11)	
			19			Q3	1.95(0.95-3.99)	
			19			Q4	2.12(1.04-4.33)	
9	Larsson, S. C._2006_ M/F_Sweden_Food	250408	28	Stomach__	NDMA_micro/day	.061	1.03(0.61-1.77)	reference dose=0.017-adj:age,education, BMI, total energy, alcohol, fruit, vegetables
			37			.098	1.66(1.00-2.75)	
			32			.151	1.6(0.93-2.76)	
			31			.277	1.96(1.08-3.58)	
10	Loh, Y. H._2011_ M/F_United Kingdom_Food	22920	137	Rectum__	NDMA_ micro/day		1.46(1.16-1.84)	adjusted: age, sex, BMI, smoking, alcohol, energy intake, physical activity, education, menopausal
			137		nitrite_ mg/day		1.18(0.97-1.44)	
			276	Colon__	NDMA_ micro/day		0.99(0.83-1.18)	
			276		nitrite_ mg/day		0.89(0.77-1.04)	
			64	Esophagus__	NDMA_ micro/day		1.13(0.77-1.68)	
			64		nitrite_ mg/day		1.14(0.84-1.54)	
			55	Stomach__	NDMA_ micro/day		1.13(0.81-1.57)	
			55		nitrite_ mg/day		0.86(0.63-1.19)	
11	Schullehner, J._2018_ M/F_Denmark_Water	11522422	8844	Colon__	nitrate_ mg/l	<1.27	1.09(1.03-1.15)	adjusted: age, sex, year of birth, previous cancer diagnosis and highest attained education
			8652			1.27-2.33	1.09(1.02-1.16)	
			6966			2.33-3.87	1.08(1.01-1.16)	
			6025			3.87-9.25	1.11(1.03-1.19)	
			3700			>=9.25	1.14(1.04-1.26)	
		11509804	5495	Rectum__		1.27-2.33	1.08(0.99-1.16)	
			4384			2.33-3.87	1.1(1.01-1.19)	
			3764			3.87-9.25	1.1(1.01-1.21)	
			5618			<1.27	1.07(0.99-1.15)	
			2308			>=9.25	1.13(1.00-1.27)	
12	van Loon, A. J._1998_ M/F_netherland_Food	3405	51	Stomach__	nitrite_ mg/day	.04	1.2(0.78-1.86)	reference dose: 0.01 - adjusted: multivariate(age, sex, smoking, education, coffee consumption, vitamin C, beta-carotene, family history, stomach disorder, use of refrigerator and freezer
			58			.09	1.18(0.77-1.82)	
			46			.16	0.88(0.56-1.37)	
			80			.35	1.44(0.95-2.18)	

			61		nitrate_ mg/day	79.4	1.02(0.69-1.51)	reference dose: 55.8 - adjusted: multivariate(age, sex, smoking, education, coffee consumption, vitamin C, beta-carotene, family history, stomach disorder, use of refrigerator and freezer
			45			98.7	0.71(0.46-1.09)	
			49			120.7	0.8(0.51-1.25)	
			58			172.2	0.8(0.47-1.37)	
	van Loon, A. J._1998_ M/F_netherland_Water		54		nitrate_ mg/day	1.65	0.93(0.62-1.39)	reference dose: 0.02- adjusted: multivariate(age ,sex, smoking, education, coffee consumption, vitamin C, beta-carotene, family history, stomach disorder, use of refrigerator and freezer
			53			3.85	0.87(0.58-1.31)	
			57			6.91	0.83(0.55-1.24)	
			57			16.5	0.88(0.59-1.32)	
13	van Loon, A. J._1997_ M/F_netherland_Water	3750	250	Stomach__	nitrate_ mg/day	4	1.02(0.62-1.68)	adjusted: smoking-education-beta-carotene-vitamin C-family history
	van Loon, A. J._1997_ M/F_netherland_Food	3750	250			99	0.62(0.31-1.22)	adjusted: smoking- education-beta-carotene-vitamin C-family history

Table 2: Characteristics of case-control studies in the systematic review.

num	Firstauthor_ Year_Gender_Locatio	Number of Cases	Number of Controls	Cancer type	Analytical Category	Consumption Categories	Adjusted OR 95CI	adjusted
1	Angela Coss_2003_ F_USA_Animal sources	32	164	Pancrase__	Nitrite_ mg/day	0.13-0.18	2.4(1.2-4.7)	reference dose<0.13- adjusted: age, cigarette use, energy
		26	147			0.19-0.26	1.9(0.94-4.0)	
		51	180			>0.26	3.2(1.6-6.4)	
	Angela Coss_2003_ M_USA_Animal sources	22	282			0.22-0.31	2.1(0.95-4.8)	reference dose<0.22- adjusted: age, cigarette use, energy
		60	359			0.32-0.53	3.8(1.8-8.0)	
		50	342			>0.53	2.3(1.1-5.1)	
	Angela Coss_2003_ F_USA_Food	32	146		Nitrite_ mg/day	0.56-0.71	1.8(0.94-3.4)	reference dose<0.56- adjusted: age, cigarette use, energy
		32	168			0.72-0.93	1.4(0.72-2.6)	
		40	181			>0.93	1.3(0.65-2.5)	
		33	157		Nitrate_ mg/day	63-90	0.99(0.58-1.7)	reference dose<63- adjusted: age, cigarette use, energy
		24	158			91-126	0.64(0.36-1.1)	
		26	160			>126	0.53(0.29-0.97)	
	Angela Coss_2003_ M_USA_Food	22	307		Nitrite_ mg/day	0.75-0.98	1(0.52-2.0)	reference dose<0.75- adjusted: age, cigarette use, energy
		40	333			0.99-1.30	1.5(0.81-2.9)	
		64	374			>1.30	1.5(0.79-3.0)	
		33	311		Nitrate_ mg/day	58-82	1.1(0.63-1.9)	reference dose<58- adjusted: age, cigarette use, energy
		39	311			83-117	1.2(0.70-2.0)	
		43	327			>117	1(0.60-1.8)	
2	Buiatti, E._1990_	203	231	Stomach__	Nitrate_	81	0.9(0.7-1.1)	

	M/F_Italy_Food				mg/day	103	0.9(0.6-1.1)	reference dose:53- adjusted: non-dietary variables and kilocalorie
						130	0.7(0.5-0.9)	
						193	0.9(0.7-1.2)	
					Nitrite_ mg/day	2.8	1(0.8-1.4)	reference dose:2.1- adjusted: non-dietary variables and kilocalorie
						3.4	1.2(0.9-1.7)	
						4.1	1.4(1.0-2.0)	
						5.9	1.9(1.3-2.7)	
3	De Roos, A. J._2003_ M/F__Water	116	380	Colon__	Nitrate_ mg/l	>1 to <=3	1(0.8-1.3)	reference dose<1- adjusted: the frequency-matched factors of age and sex
		27	124			>3 to <=5	0.7(0.4-1.1)	
		61	174			>5	1.2(0.8-1.7)	
		98	380	Rectum__		>1 to <=3	0.8(0.6-1.1)	
		30	124			>3 to <=5	0.7(0.5-1.2)	
		56	174			>5	1.2(0.8-1.8)	
4	De Stefani, E._1998_ M/F_Uruguay_Food	340	698	Stomach__	NDMA_		1.51(1.33-1.72)	Adjusted: age, sex, and smoking. alcohol, residence
	De Stefani, E._1998_ M_Uruguay_Food	224	459				1.63(1.39-1.91)	
	De Stefani, E._1998_ F_Uruguay_Food	116	239				1.34(1.08-1.67)	
	De Stefani, E._1998_ F_Uruguay_Food	116	239		Nitrite_		0.79(0.62-1.01)	
	De Stefani, E._1998_ M_Uruguay_Food	224	459				0.52(0.43-0.62)	
	De Stefani, E._1998_ M/F_Uruguay_Food	340	698				0.55(0.48-0.62)	
5	De Stefani, E._2001_ M/F_Uruguay_Animal sources	27	88	Stomach__	NDMA_ micro/day	2.0-2.5	2.2(1.2-4.1)	reference dose<=1.9- adjusted: age, gender, residence, education
		57				>2.6	2.2(1.2-4.1)	
		41			Nitrate_ mg/day	524-784	1.1(0.6-1.8)	reference dose<523- adjusted: age, gender, residence, education
		34				>785	0.9(0.5-1.6)	
		48			Nitrite_ mg/day	6.3-10.0	1.5(0.9-2.6)	reference dose<6.2- adjusted: age, gender, residence, education
		43				>10.1	1.8(1.0-3.2)	
6	Espejo-Herrera, N._ 2016_F_spain and italy_Water	158	349	Colorectal_	Nitrate_ mg/day	>5-10	1.2(0.90-1.58)	reference dose<5- adjusted: sex, age, education, BMI, physical activity, NSAI drug , family history, intake of energy, oral contraceptives use
		247	360			>10	1.41(1.04-1.91)	
		30	349	Rectum__		>5-10	0.87(0.52-1.45)	
		70	360			>10	1.49(0.89-2.48)	
		122	349	Colon__		>5-10	1.33(0.97-1.80)	
		174	360			>10	1.46(1.04-2.05)	
	Espejo-Herrera, N._ 2016_M_spain and italy_Water	289	454	Colorectal_		>5-10	1.16(0.94-1.44)	
		397	468			>10	1.5(1.21-1.87)	
		80	454	Rectum__		>5-10	0.94(0.68-1.28)	
		133	468			>10	1.55(1.16-2.08)	

		202	454	Colon__		>5-10	1.26(0.99-1.61)	
		260	468			>10	1.51(1.17-1.94)	
	Espejo-Herrera, N._ 2016_M/F_spain and italy_Water	447	803	Colorectal_		>5-10	1.17(0.98-1.38)	
		644	828			>10	1.49(1.24-1.78)	
		110	803	Rectum__		>5-10	0.93(0.70-1.23)	
		203	828			>10	1.62(1.23-2.14)	
		324	803	Colon__		>5-10	1.28(1.06-1.55)	
		434	828			>10	1.52(1.24-1.86)	
	Espejo-Herrera, N._ 2016_M/F_spain and italy_Food	564	1058	Colorectal_		83-133	0.97(0.83-1.14)	reference dose: <83 - adjusted: sex, age, education, physical activity, NSAI drug, family history, BMI, intake energy, fiber
		527	1057			>133	0.84(0.70-1.00)	
		394	1058	Colon__		83-133	1.04(0.87-1.24)	
		371	1057			>133	0.9(0.74-1.10)	
		161	1058	Rectum__		83-133	0.85(0.66-1.08)	
		151	1057			>133	0.76(0.58-1.00)	
	Espejo-Herrera, N._2016_M/F_spain and italy_Animal sources	578	1058	Colorectal_		4.5-6.8	1.15(0.98-1.35)	reference dose: <4.5 - adjusted: sex, age, education, physical activity, NSAI drug, family history, BMI, intake energy
		634	1057			>6.8	1.16(0.98-1.38)	
		191	1058	Rectum__		4.5-6.8	1.59(1.22-2.06)	
		204	1057			>6.8	1.55(1.17-2.05)	
		423	1057	Colon__		>6.8	1.06(0.87-1.30)	
		378	1058			4.5-6.8	1.03(0.86-1.24)	
	Espejo-Herrera, N._2016_M/F_spain and italy_Plant sources	575	1058	Colorectal_		68-118	0.99(0.85-1.16)	reference dose: <68 - adjusted: sex, age, education, physical activity, NSAI drug, family history, BMI, intake energy, fiber
		513	1057			>118	0.83(0.70-0.99)	
		169	1058	Rectum__		68-118	1.04(0.71-1.16)	
		144	1057			>118	0.9(0.57-0.99)	
		397	1058	Colon__		68-118	1.04(0.87-1.24)	
		364	1057			>118	0.89(0.73-1.08)	
7	Fathmawati_2017_M/F_Indonesia_Water	3	4	Colorectal_	Nitrate_ mg/l	>50	1.405(0.14-13.67)	adjusted: protein intake, smoking history, age, family history of cancer, diabetic
		16	4			>50	4.312(1.31-14.09)	
8	Hernández-Ramírez, R. U._2009_M/F_Mexico_Food	82	159	Stomach__	Nitrite_ mg/day	>1.0-1.2	1.07(0.69-1.65)	reference dose<1.0- adjusted: energy, age, gender
		82	159			>1.2	1.52(0.99-2.34)	
		76	156		Nitrate_ mg/day	>90.4-141.7	0.93(0.62-1.39)	reference dose: <90.4- adjusted: energy, age, gender
		76	156			>141.7	0.61(0.39-0.96)	
		82	159		Nitrite_ mg/day	>0.2-0.4	0.78(0.50-1.21)	reference dose<0.2- adjusted: energy, age, gender
		82	159			>0.4	1.56(1.02-2.4)	
		76	156		Nitrate_ mg/day	>1.7-3.9	1.28(0.82-2.0)	reference dose: <1.7- adjusted adj: energy, age, gender
		76	156			>3.9	1.92(1.23-3.02)	
		82	159		Nitrite_ mg/day	>0.1-0.2	0.81(0.54-1.21)	reference dose<0.1- adjusted: energy, age, gender
		82	159			>0.2	0.77(0.50-1.18)	
		76	156		Nitrate_ mg/day	>81.7-134.9	0.93(0.62-1.39)	reference dose: <81.7- adjusted: energy, age, gender
		76	156			>134.9	0.62(0.40-0.97)	

9	Jakszyn, P._2006_M/F_European countries_Food	105	146359	Stomach__	NDMA_ micro/day	.09	0.87(0.64–1.2)	reference dose: <0.09- adj:sex,height,weight,education,smoking,physical activity, fruits intake, energy, nitrites
		31	146359			.195	0.99(0.69–1.41)	
		31	146359	Stomach_ Noncardia		.09	1.04(0.66–1.63)	
		52	146359			.195	1.09(0.65–1.81)	
		52	146359	Stomach_ Cardia_		.09	0.74(0.41–1.34)	
		105	146359			.195	0.68(0.34–1.37)	
10	Kim, H. J._2007_ M/F_Korea_Food	67	68	Stomach__	Nitrate_ mg/day	458	1.13(0.54–2.36)	reference dose: 240- adjusted: age (<50, 50–59, 60–69, and ≥70 yr), sex, socioeconomic status (low, medium, and high status; low status indicates below elementary school in education and $ 8500 in annual income), family history (yes and no for only first-degree relatives), refrigerator use (<20 yr and ≥20 yr), H. pylori infection, and foods (charcoal grilled beef, Korean cabbage kimchi, Dongchimi, spinach, garlic, mushroom, and salty foods; low, medium, and high intake).
		32	34			811	1.13(0.42–3.06)	
11	La Vecchia, C._1994_ M/F_Italy_Food	128	404	Stomach__	Nitrite_ mg/day	2.41	0.98(0.72-1.33)	refrence:1.91- adjusted: multiple logistic regression(age, sex, education, family history, BMI, total energy)
		126	405			2.94	0.99(0.72-1.36)	
		153	406			3.64	1.15(0.84-1.59)	
		193	404			>3.64	1.35(0.96-1.88)	
		156	405		Nitrate_ mg/day	80.7	0.64(0.49-0.83)	reference:62.96- adjusted: multiple logistic regression (age, sex, education, family history, BMI, total energy)
		117	404			96.33	0.5(0.38-0.67)	
		117	406			116.88	0.52(0.39-0.70)	
		105	404			>116.88	0.43(0.32-0.59)	
12	La Vecchia, C._1995_ M/F_Italy_Food	231	687	Stomach__	NDMA_ micro/day	0.131-0.190	1.11(0.9-1.4)	Reference dose<=0.130- adjusted: age, sex, education, family history. carotene, vitamin C, total calories, nitrite, nitrate
		308	683			>0.191	0.191(1.1-1.7)	
13	La Vecchia, C._1997_ M/F_Italy_Food	407	987	Stomach__Carcinoma	Nitrite_ mg/day	>=2.7	1.44(1.2-1.7)	reference dose<2.7-adj:sex,age,education,
14	Lopez-Carrillo, L._2004_ M/F_Mexico_Food	60	146	Stomach__	Nitrite_ portions/day	0.12–0.26	0.95(0.62-1.46)	reference dose=0-0.11- adjusted: age, gender, energy, socioeconomic ,education, Hp/CagA status and ascorbic acid
		83	148			0.27–2.25	1.24(0.81-1.90)	
15	Mayne, S. T._2001_ M/F_USA_Food	255	687	Stomach_ Cardia_Adenocarcinoma	Nitrite_ mg/day		1.12(0.87-1.44)	adjusted: sex; site (Connecticut, Washington, New Jersey); age; race (white versus other); proxy status; income; education; usual body mass index; cigarettes/day; years of consuming beer, wine, and liquor (each); and energy intake.
		352	687	Stomach_Noncardia _Adenocarcinoma			1.64(1.30-2.07)	

		206	687	Esophagus__Squamous cell carcinoma		1.12(0.84-1.51)	
		282	687	Esophagus__Adenocarcinoma		1.02(0.80-1.30)	
16	McElroy, J. A._2008_M/F_USA_Water	22	19	Colorectal_	Nitrate_mg/l	0.5-1.9	1.39(1.02-1.89)	reference dose<0.5- adjusted: age, interview period
		29	25			2.5-5.9	1.32(0.99-1.76)	
		12	11			6.0-9.9	1.28(0.88-1.88)	
		7	6			>10.0	1.57(0.97-2.52)	
		23	19	Rectum__		0.5-1.9	1.29(0.73-2.31)	
		28	25			2.5-5.9	1.19(0.69-2.06)	
		10	11			6.0-9.9	1.11(0.52-2.36)	
		5	6			>10.0	1.26(0.47-3.43)	
		24	19	Colon_distal _		0.5-1.9	1.58(1.03-2.40)	
		29	25			2.5-5.9	1.38(0.92-2.06)	
		12	11			6.0-9.9	1.43(0.85-2.41)	
		5	6			>10.0	1.23(0.59-2.56)	
		20	19	Colon_Proximal_		0.5-1.9	1.35(0.81-2.26)	
		28	25			2.5-5.9	1.36(0.85-2.17)	
		12	11			6.0-9.9	1.34(0.73-2.47)	
		11	6			>10.0	2.76(1.42-5.38)	
17	Miller, P. E._2013_M/F_USA_Animal sources	177	207	Colorectal_	Nitrate and Nitrite_micro/1000 kcal	114.6-197.0	0.98(0.72-1.32)	reference dose< 114.6 - adjusted: age, sex, total energy intake, body mass index, past regular NSAID use, and fruit and vegetable consumption
		194	207			197.1-310.2	1.07(0.79-1.45)	
		211	207			310.3-496.6	1.09(0.80-1.47)	
		225	207			> 496.6	1.19(0.87-1.61)	
		124	207	Colon__		114.6-197.0	1.02(0.73-1.42)	
		140	207			197.1-310.2	1.15(0.83-1.61)	
		146	207			310.3-496.6	1.14(0.82-1.60)	
		157	207			> 496.6	1.28(0.92-1.80)	
		75	207	Colon_Proximal_		114.6-197.0	1.05(0.71-1.56)	
		86	207			197.1-310.2	1.25(0.85-1.86)	
		76	207			310.3-496.6	1.06(0.71-1.58)	
		102	207			> 496.6	1.57(1.06-2.34)	
		45	207	Colon_distal_		114.6-197.0	0.99(0.62-1.59)	
		50	207			197.1-310.2	1.06(0.67-1.70)	
		64	207			310.3-496.6	1.28(0.81-2.01)	
		51	207			> 496.6	0.98(0.61-1.58)	
		52	207	Rectum__		114.6-197.0	0.95(0.61-1.48)	
		54	207			197.1-310.2	0.96(0.62-1.50)	
		63	207			310.3-496.6	1.02(0.66-1.58)	

		67	207			> 496.6	1.04(0.67-1.62)	
18	Palli, D._2001_ M/F_Italy_Food	286	187	Stomach__	NDMA_ micro/day	.2	1.1(0.8-1.6)	reference dose: 0.12- adjusted: multiple logistic regressions(age, sex, social class, family history, BMI, total energy)
		286	187			.33	1.1(0.8-1.5)	
		286	187		Nitrate_ mg/day	93.2	0.7(0.5-1.0)	reference dose: 62.6- adjusted: multiple logistic regressions(age, sex, social class, family history, BMI, total energy)
		286	187			132.9	0.6(0.4-0.9)	
		286	187		Nitrite_ mg/day	3.5	1.4(1.0-2.0)	reverence dose: 2.5- adjusted: multiple logistic regressions(age, sex, social class, family history, BMI, total energy)
		286	187			5.4	1.4(1.0-2.0)	
19	Pobel, D._1995_ M/F_France_Food	31	43	Stomach__	NDMA_ micro/day	.25	4.13(0.93-18.27)	reference dose:0.20- adjusted: age, sex, occupation , calorie intake
						.51	7(1.85-26.46)	
					Nitrite_ mg/day	1.98	0.83(0.41-1.67)	reverence dose:1.61- adjusted: age, sex, occupation , calorie intake
						2.26	0.88(0.44-1.79)	
					Nitrate_ mg/day	137.26	0.49(0.24-1.01)	reverence dose:89.03- adjusted: age, sex, occupation , calorie intake
						192.73	0.76(0.38-1.50)	
	Pobel, D._1995_ M/F_France_Plant sources				Nitrite_ mg/day	1.98	0.74(0.37-1.48)	reverence dose:1.61- adjusted: age, sex, occupation , calorie intake
						2.26	0.77(0.38-1.57)	
					Nitrate_ mg/day	137.26	0.52(0.26-1.07)	reverence dose:89.03- adjusted: age, sex, occupation , calorie intake
						192.73	0.73(0.37-1.45)	
20	Rick J.Jansen_2013_ M/F_USA_Animal sources	79	197	Pancrase__	Nitrate_ mg/day	.03	0.57(0.40-0.83)	reference dose:Q1:0.01-adjusted: cigarette smoking, pack-years, pack-years squared
		72	197			.06	0.48(0.33-0.70)	
		60	196			.12	0.38(0.26-0.57)	
		48	196			.26	0.26(0.17-0.40)	
21	Rogers, MA._1995_ M/F_USA_Food	23	147	Esophagus	NDMA_ micro/day	0.06-0.179	1.31(0.60-2.85)	Reference dose<=0.06- adjusted: age, gender, pack-years of cigarettes .drink alcohol. Energy intake .ascorbic acid intake, body mass index. Level of education
		52	147			>0.179	1.86(0.87-3.95)	
		28	134		Nitrite_ mg/day	1.06-1.60	1.17(0.57-2.38)	Reference dose: <1.06 - adjusted: age, gender, pack-years of cigarettes .drink alcohol. Energy intake. Ascorbic acid intake, body mass index. Level of education
		43	151			>1.60	1.58(0.73-3.44)	
		39	144		Nitrate_ mg/day	134-226	0.71(0.38-1.33)	Reference dose: <134 - adjusted: age, gender, pack-years of cigarettes .drink alcohol. Energy intake. Ascorbic acid intake, body mass index. Level of education
		25	140			>226	0.44(0.24-0.93)	
22	Taneja,P._2017_M/F_India_Water	41	24	Stomach__	Nitrate_ mg/l	<=45	1(0.98-1.01)	adjusted: age, gender, tobacco
		37	132			>45	1.1(0.99-1.15)	
23	Ward, M. H._2007_ M/F_maryland_Animal sources	27	57	Colorectal_	Nitrite_ mg/day	0.02 - 0.07	1(0.7-2.3)	adjusted: age, gender, calories, smoking
		39	57			0.08 to <0.16	1.2(0.9-3.2)	
		52	57			0.16-1.23	1.7(0.8-3.5)	
		30	57			0.22 to <0.89	1.1(0.6-2.5)	

		34	57		Nitrate and Nitrite_ mg/day	0.89 to <1.86	1.3(1.0-3.9)	reference dose:0 to<0.22- adjusted: age, gender, calories, smoking
		57	57			1.86-12.28	2(1.0-1.8)	
24	Ward, M. H._2008_ M/F_USA_Animal sources	17	99	Esophagus__Adenocarcinoma	Nitrate and Nitrite_ mg/day	3.8-<5.7	0.7(0.3-1.6)	reference dose<3.8- adjusted: year of birth, gender, body mass index, smoking, alcohol, total calories, vitamin A, folate, riboflavin, zinc, protein, carbohydrate
		28	99			5.7-<8.3	1.7(0.7-4.1)	
		39	100			8.3+	2.2(0.9-5.7)	
		31	99	Stomach_Distal_Adenocarcinoma		3.8-<5.7	1.6(0.8-3.2)	
		25	99			5.7-<8.3	1.8(0.8-3.8)	
		29	100			8.3+	1.6(0.7-3.7)	
	Ward, M. H._2008_ M/F_USA_Plant sources	28	102	Esophagus__Adenocarcinoma	Nitrite_ mg/day	0.36-<0.52	0.52(0.5-2.3)	reference dose<0.36- adjusted: year of birth, gender, body mass index, smoking, alcohol, total calories, vitamin A ,folate, riboflavin, zinc, protein, carbohydrate
		17	101			0.52-<0.67	0.6(0.2-1.3)	
		30	100			0.67+	1(0.4-2.4)	
		22	102	Stomach_Distal_Adenocarcinoma		0.36-<0.52	1.1(0.4-2.7)	
		29	101			0.52-<0.67	0.8(0.3-2.2)	
		30	100			0.67+	1.1(0.3-3.4)	
		27	99	Esophagus__Adenocarcinoma	Nitrate_ mg/day	16.9-<26.2	0.9(0.5-1.8)	reference dose<16.9- adjusted: year of birth, gender, body mass index, smoking, alcohol, total calories, vitamin A, folate, riboflavin, zinc, protein, carbohydrate
		18	99			16.2-<38.8	0.6(0.3-1.3)	
		24	100			>38.8	0.8(0.3-1.8)	
		28	99	Stomach_Distal_Adenocarcinoma		16.9-<26.2	1.2(0.6-2.5)	
		26	99			26.2-<38.8	1.4(0.7-2.9)	
		26	100			>38.8	1.6(0.7-3.6)	
	Ward, M. H._2008_M/F_USA_Water	12	55	Stomach_ distal_Adenocarcinoma	Nitrate_ mg/l	10	1(0.5-2.0)	reference dose= 0 years- adjusted: year of birth, gender, education, smoking, alcohol
		13	48			10	1.1(0.5-2.3)	
		12	55	Esophagus__ Adenocarcinoma		>10	0.8(0.4-1.8)	reference dose<10- adjusted: year of birth, gender, body mass index, smoking, alcohol
		15	48			>10	0.9(0.4-1.9)	
25	Zhang, T._2018_ M/F__Food	23	27	Esophagus	Nitrite_ mg/day	3.73 -7.13	1.175(0.53-2.59)	reference dose: 0 - 3.7350 - adjusted: sex and age
	Zhang, T._2018_ M/F__Food	25	25	Esophagus	Nitrite_ mg/day	7.13-17.32	1.373(0.61-3.05)	reference dose: 0 - 3.7350 - adjusted: sex and age
	Zhang, T._2018_ M/F__Food	31	19	Esophagus	Nitrite_ mg/day	17.32-71.57	2.256(1.01-5.02)	reference dose: 0 - 3.7350 - adjusted: sex and age
26	Zheng, J._2019_ M/F_USA_Animal sources	234	234	Pancrase_	NDMA_	.33	0.97(0.74-1.28)	reference dose:Q1=0.18- adjusted: age, energy, red and processed meet intake, sex, race, education level, BMI, alcohol level, history of diabetic, smoking, family history of pancreatic cancer
		201	235			.43	0.87(0.65-1.15)	
		272	234			.74	1.17(0.89-1.54)	
		196	234		Nitrate_	2.46	0.68(0.52-0.90)	reference dose:Q1=1.63- adjusted: age, energy, red and processed meet intake, sex, race, education level, BMI, alcohol level, history of
		220	235			3.05	0.74(0.56-0.97)	
		245	234			4.24	0.82(0.62-1.08)	

							diabetic, smoking, family history of pancreatic cancer
	Zheng, J._2019_ M/F_USA_Food	121	234	NDMA_	.45	0.99(0.75-1.31)	reference dose:Q1=0.28- adjusted: age, energy, red and processed meet intake, sex, race, education level, BMI, alcohol level, history of diabetic, smoking, family history of pancreatic cancer
		168	235		.58	1.03(0.78-1.37)	
		249	234		.99	1.03(0.78-1.37)	
		226	234	Nitrite_	.7	0.83(0.63-1.09)	reference dose:Q1=0.37- adjusted: age, energy, red and processed meet intake, sex, race, education level, BMI, alcohol level, history of diabetic, smoking, family history of pancreatic cancer
		225	235		.99	0.79(0.60-1.04)	
		215	234		1.55	0.68(0.51-0.91)	
		236	234	Nitrate_	34.37	0.93(0.71-1.23)	reference dose:Q1=21.67- adjusted: age, energy, red and processed meet intake, sex, race, education level, BMI, alcohol level, history of diabetic, smoking, family history of pancreatic cancer
		192	235		45.54	0.72(0.55-0.96)	
		271	234		73.29000000000001	1.07(0.81-1.41)	
	Zheng, J._2019_ M/F_USA_Plant sources	227	234	NDMA_	.06	1.48(1.10-1.99)	reference dose:Q1=0.04- adjusted: age, energy, red and processed meet intake, sex, race, education level, BMI, alcohol level, history of diabetic, smoking, family history of pancreatic cancer
		300	235		.08	1.97(1.48-2.64)	
		272	234		.12	1.93(1.42-2.61)	
		230	234	Nitrate_	31.43	0.95(0.72-1.25)	reference dose:Q1=18.97- adjusted: age, energy, red and processed meet intake, sex, race, education level, BMI, alcohol level, history of diabetic, smoking, family history of pancreatic cancer
		204	235		42.58	0.8(0.61-1.07)	
		267	234		70.59	1.05(0.79-1.39)	
27	Zhu, Y._2014_ M/F_Canada_Food	335	502	Colorectal_	.07	1.06(0.83-1.37)	reference dose: 0.03- adjusted: age, sex, energy intake, BMI, smoking, alcohol, physical activity, education, income, NSAID, folate, supplement, province of residence
		354	493		.2	1.13(0.87-1.47)	
		336	513		.77	1.22(0.92-1.63)	
		407	441		2.29	1.42(1.03-1.96)	
		138	510	Colon_ Proximal_	.07	0.96(0.72-1.28)	
		123	488		.2	1.08(0.79-1.46)	
		132	519		.77	1.11(0.80-1.67)	
		129	446		2.29	1.58(0.80-1.67)	
		117	510	Rectum__	.07	1.06(0.77-1.45)	
		126	488		.2	1.19(0.86-1.66)	
		145	519		.77	1.15(0.81-1.63)	
		141	446		2.29	1.61(1.11-2.35)	
		117	510	Colon_ distal_	.07	1.06(0.77-1.45)	
		131	488		.2	1.24(0.89-1.72)	
		101	519		.77	0.97(0.68-1.39)	

	128	446			2.29	1.37(0.93-2.01)	
	117	496			.89	1.26(0.91-1.73)	
	126	520	Rectum__		1.12	1.2(0.84-1.71)	
	145	474			1.4	1.51(1.02-2.22)	
	141	455			1.92	1.45(0.94-2.24)	
	335	496			.89	1.07(0.83-1.38)	
	354	520	Colorectal_		1.12	0.99(0.75-1.30)	
	336	479			1.4	1.05(0.77-1.43)	reference dose:0.65- adjusted: age, sex, energy intake, BMI, smoking, alcohol, physical activity, education, income, NSAID, folate, supplement, province of residence
	407	450		Nitrite_	1.92	1.09(0.77-1.54)	
	138	496		mg/day	.89	1.15(0.86-1.54)	
	123	520	Colon_		1.12	0.91(0.66-1.26)	
	132	474	Proximal_		1.4	0.81(0.56-1.18)	
	129	455			1.92	0.95(0.63-1.43)	
	117	496			.89	0.97(0.70-1.34)	
	131	520	Colon_		1.12	0.93(0.65-1.32)	
	101	474	distal_		1.4	1.21(0.82-1.78)	
	128	455			1.92	1.32(0.85-2.04)	
	335	477			91.45	1.27(0.99-1.60)	
	354	488	Colorectal_		124.81	1.19(0.93-1.52)	
	336	481			169.59	1.17(0.91-1.51)	
	407	518			264.14	0.89(0.68-1.16)	
	117	480	Rectum_		91.45	1.12(0.83-1.53)	
	126	489			124.81	1.23(0.90-1.69)	
	145	479			169.59	1.34(0.96-1.85)	reference dose: 56.94- adjusted: age, sex, energy intake, BMI, smoking, alcohol, physical activity, education, income, NSAID, folate, supplement, province of residence
	141	516		Nitrate_	264.14	1.03(0.73-1.46)	
	138	480	Colon_	mg/day	91.45	1.25(0.93-1.66)	
	123	489	Proximal_		124.81	0.9(0.66-1.23)	
	132	479			169.59	1.06(0.78-1.46)	
	129	516			264.14	0.75(0.54-1.05)	
	117	480	Colon_		91.45	1.07(0.78-1.48)	
	131	489	distal_		124.81	1.24(0.90-1.71)	
	101	479			169.59	1.31(0.94-1.83)	
	128	516			264.14	1.01(0.71-1.45)	