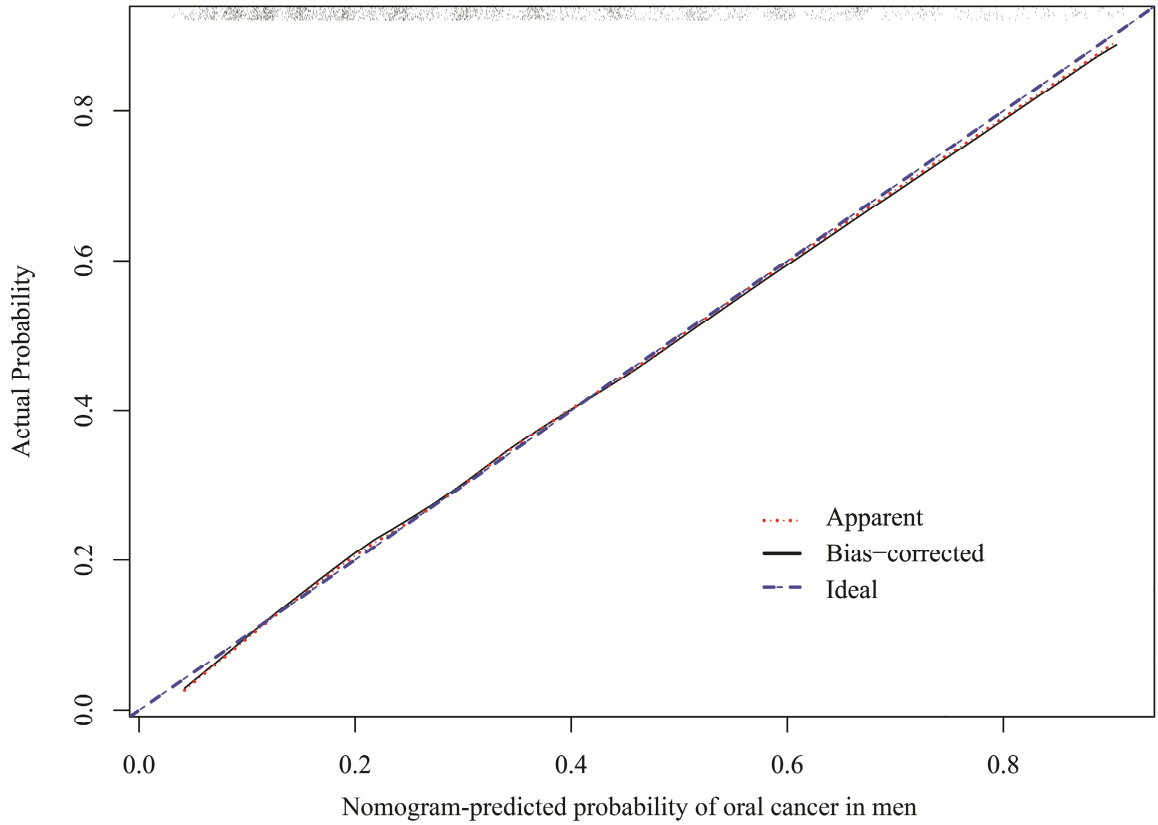
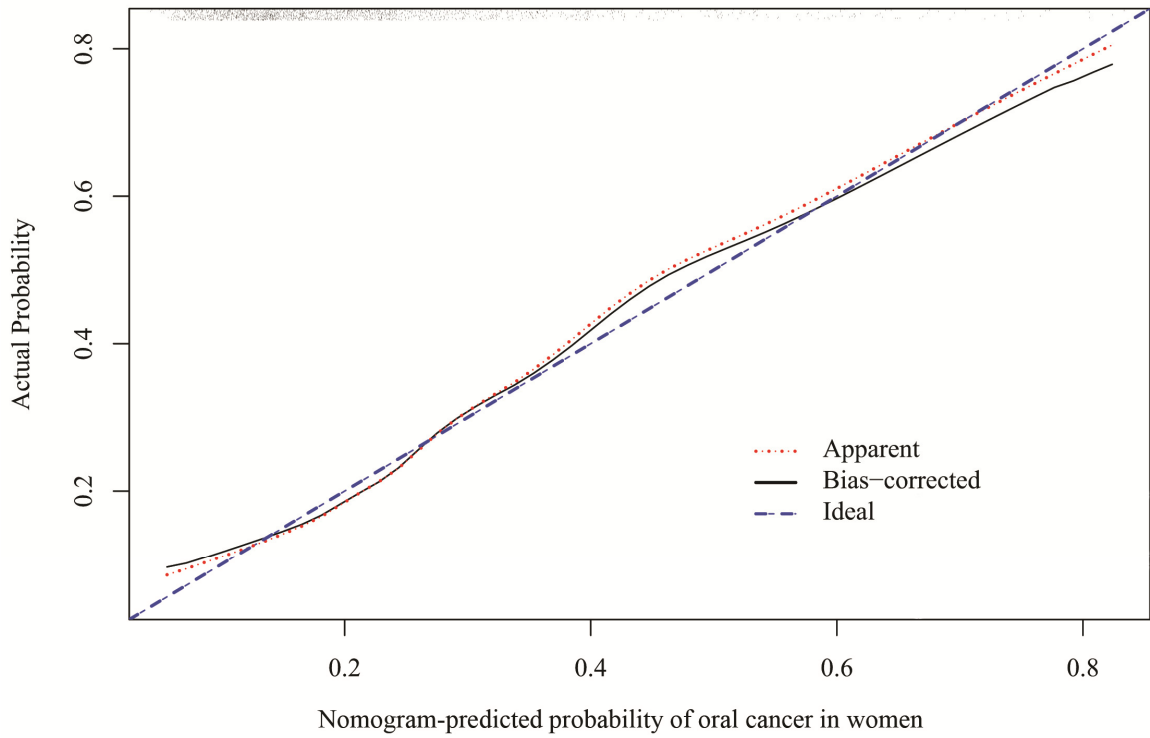


### Supplementary Figure



**Figure S1** Calibration plots for the predicted probabilities and the actual observation among men. The x-axis indicates the nomogram-predicted probability, and the y-axis demonstrates the actual observed probability.



**Figure S2** Calibration plots for the predicted probabilities and the actual observation among women.

Supplementary Table 1 Smoking, alcohol drinking, tea and the risk of oral cancer

Variable	Men			Women		
	Cases/Controls	Model-1 <i>OR(95%CI)<sup>a</sup></i>	Model-2 <i>OR(95%CI)<sup>b</sup></i>	Cases/Controls	Model-1 <i>OR(95%CI)<sup>a</sup></i>	Model-2 <i>OR(95%CI)<sup>c</sup></i>
Smoking (pack-year)						
Never	155/625	1.00	1.00	358/1320	1.00	1.00
<20	90/210	1.64(1.21-2.24)	1.50(1.10-2.05)	1/8	0.48(0.06-3.96)	0.49(0.06-4.03)
20~	148/246	2.36(1.79-3.11)	1.97(1.48-2.62)	1/4	0.76(0.08-7.00)	0.61(0.06-5.70)
40~	223/227	4.24(3.25-5.54)	3.21(2.43-4.25)	2/6	1.27(0.25-6.47)	0.65(0.08-5.56)
<i>P trend</i>		<0.001	<0.001		0.7713	0.3956
Alcohol drinking (g/day)						
Never	286/866	1.00	1.00	352/1303	1.00	1.00
<20	89/207	1.30(0.98-1.73)	1.13(0.84-1.51)	8/17	1.64(0.69-3.90)	1.75(0.68-4.47)
20~	113/132	2.59(1.94-3.46)	1.93(1.43-2.61)	1/15	0.21(0.03-1.65)	0.48(0.06-3.87)
60~	128/103	3.74(2.78-5.04)	2.62(1.92-3.58)	1/3	1.52(0.16-14.83)	-
<i>P trend</i>		<0.001	<0.001		0.5501	0.6765
Passive smoking						
No	93/417	1.00	1.00	182/838	1.00	1.00
Yes	60/206	1.43(0.97-2.11)	1.44(0.98-2.12)	176/482	1.84(1.44-2.35)	1.74(1.36-2.23)
Tea consumption						
No	316/602	1.00	1.00	304/1032	1.00	1.00
Yes	300/706	0.79(0.65-0.96)	0.53(0.43-0.66)	58/306	0.59(0.43-0.81)	0.62(0.45-0.86)
Tea concentration						
Never drinker	316/602	1.00	1.00	304/1057	1.00	1.00
Light tea	82/195	0.77(0.57-1.04)	0.67(0.49-0.91)	24/105	0.65(0.40-1.05)	0.67(0.41-1.08)
Moderate tea	103/338	0.57(0.43-0.74)	0.49(0.38-0.65)	23/140	0.53(0.33-0.84)	0.60(0.37-0.97)
Strong tea	115/173	1.24(0.94-1.63)	0.97(0.73-1.30)	11/36	1.10(0.55-2.21)	1.16(0.57-2.37)
Tea types						
Never drinker	316/602	1.00	1.00	304/1057	1.00	1.00
Black-tea	24/74	0.65(0.40-1.06)	0.46(0.27-0.76)	7/36	0.68(0.29-1.55)	0.77(0.33-1.77)
Green-tea	165/391	0.81(0.64-1.02)	0.55(0.43-0.71)	32/166	0.59(0.39-0.89)	0.64(0.42-0.97)
Oolong-tea	104/227	0.80(0.60-1.05)	0.53(0.39-0.71)	16/66	0.74(0.41-1.31)	0.78(0.43-1.40)
Others	7/14	0.90(0.36-2.29)	0.65(0.24-1.73)	3/13	0.73(0.20-2.61)	0.85(0.23-3.08)
Tea temperature						
Never drinker	316/602	1.00	1.00	304/1057	1.00	1.00
Cold tea	20/61	0.64(0.37-1.08)	0.48(0.28-0.83)	3/13	1.02(0.29-3.65)	1.18(0.33-4.23)
Warm tea	92/339	0.51(0.39-0.67)	0.40(0.30-0.54)	32/172	0.58(0.39-0.88)	0.63(0.42-0.96)
Hot tea	188/306	1.12(0.88-1.41)	0.78(0.61-1.00)	23/96	0.70(0.43-1.14)	0.76(0.46-1.24)

<sup>a</sup> Adjustment for age, education, marital status, residence, family history of cancer.

<sup>b</sup> Additional adjustment for smoking and alcohol drinking.

<sup>c</sup> Additional adjustment for passive smoking and cooking oil fumes.

Supplementary Table 2 Dietary factors and the risk of oral cancer

Variable	Men			Women		
	Cases/Controls	Model-1 <i>OR</i> (95% <i>CI</i> ) <sup>a</sup>	Model-2 <i>OR</i> (95% <i>CI</i> ) <sup>b</sup>	Cases/Controls	Model-1 <i>OR</i> (95% <i>CI</i> ) <sup>a</sup>	Model-2 <i>OR</i> (95% <i>CI</i> ) <sup>c</sup>
<b>Red meat</b>						
<3times/week	266/565	1.00	1.00	217/761	1.00	1.00
≥3times/week	350/743	0.98(0.80-1.20)	0.90(0.73-1.11)	145/577	0.85(0.67-1.10)	0.81(0.63-1.05)
<b>Domestic meat</b>						
<1time/week	221/438	1.00	1.00	165/579	1.00	1.00
≥1time/week	395/870	0.89(0.72-1.09)	0.91(0.73-1.13)	197/759	0.85(0.67-1.08)	0.88(0.69-1.13)
<b>Fish</b>						
<3times/week	325/515	1.00	1.00	200/660	1.00	1.00
≥3times/week	291/793	0.54(0.45-0.66)	0.52(0.42-0.64)	162/678	0.69(0.54-0.88)	0.70(0.54-0.90)
<b>Seafood</b>						
<1time/week	274/391	1.00	1.00	162/524	1.00	1.00
≥1time/week	342/917	0.50(0.41-0.61)	0.49(0.39-0.60)	200/814	0.67(0.53-0.86)	0.75(0.58-0.97)
<b>Milk and dairy products</b>						
<1time/week	420/712	1.00	1.00	216/779	1.00	1.00
≥1time/week	196/596	0.56(0.46-0.69)	0.62(0.50-0.78)	146/559	0.81(0.63-1.04)	0.84(0.65-1.09)
<b>Eggs</b>						
<3times/week	295/487	1.00	1.00	181/572	1.00	1.00
≥3times/week	321/821	0.65(0.53-0.79)	0.69(0.56-0.85)	181/766	0.70(0.55-0.88)	0.71(0.56-0.91)
<b>Vegetables</b>						
<1time/day	110/59	1.00	1.00	39/56	1.00	1.00
≥1time/day	506/1249	0.22(0.15-0.30)	0.25(0.17-0.35)	323/1282	0.37(0.24-0.57)	0.40(0.26-0.62)
<b>Fruits</b>						
<3times/week	458/569	1.00	1.00	185/427	1.00	1.00
≥3times/week	158/739	0.25(0.20-0.32)	0.31(0.25-0.39)	177/911	0.40(0.32-0.52)	0.43(0.34-0.56)
<b>Beans</b>						
<1time/week	211/376	1.00	1.00	116/346	1	1
≥1time/week	405/932	0.77(0.62-0.95)	0.75(0.60-0.93)	246/992	0.68(0.53-0.89)	0.66(0.50-0.86)
<b>Pickled food</b>						
<1time/week	422/946	1.00	1.00	258/1012	1.00	1.00
≥1time/week	194/362	1.16(0.94-1.43)	1.10(0.88-1.37)	104/326	1.17(0.89-1.52)	1.09(0.83-1.44)
<b>Cooking oil fume exposure</b>						
Light and below	463/1055	1.00	1.00	245/1090	1.00	1.00
Middle	121/219	1.22(0.95-1.58)	1.27(0.98-1.65)	98/225	2.01(1.52-2.67)	1.92(1.45-2.56)
Heavy	20/34	1.44(0.81-2.53)	1.16(0.63-2.14)	13/23	2.91(1.43-5.89)	2.49(1.20-5.15)
<i>P trend</i>		0.1362	0.5466		<0.001	<0.001

<sup>a</sup> Adjustment for age, education, marital status, residence, family history of cancer.

<sup>b</sup> Additional adjustment for smoking and alcohol drinking.

<sup>c</sup> Additional adjustment for passive smoking and cooking oil fumes.

Supplementary Table 3 Oral hygiene related factors, sexual habit and the risk of oral cancer

Variable	Men			Women		
	Cases/Controls	Model-1 <i>OR</i> (95% <i>CI</i> ) <sup>a</sup>	Model-2 <i>OR</i> (95% <i>CI</i> ) <sup>b</sup>	Cases/Controls	Model-1 <i>OR</i> (95% <i>CI</i> ) <sup>a</sup>	Model-2 <i>OR</i> (95% <i>CI</i> ) <sup>c</sup>
Tooth-brushing(times/day)						
<2	427/756	1.00	1.00	178/586	1.00	1.00
≥2	189/552	0.59(0.47-0.73)	0.70(0.56-0.88)	184/752	0.75(0.58-0.95)	0.76(0.59-0.98)
Teeth loss						
0	174/540	1.00	1.00	84/443	1.00	1.00
<5	189/343	1.93(1.49-2.51)	1.74(1.33-2.29)	100/359	1.62(1.16-2.27)	1.61(1.14-2.27)
≥5	253/425	2.39(1.82-3.13)	1.93(1.45-2.56)	178/536	2.15(1.53-3.01)	2.19(1.55-3.09)
<i>P trend</i>		<0.001	<0.001		<0.001	<0.001
Denture wearing						
No	347/867	1.00	1.00	161/715	1.00	1.00
Yes	269/441	1.68(1.35-2.07)	1.43(1.14-1.79)	201/623	1.43(1.11-1.85)	1.46(1.13-1.90)
Regular dental visits(times/year)						
Never	553/1095	1.00	1.00	308/1078	1.00	1.00
<1	47/138	0.60(0.42-0.85)	0.58(0.40-0.84)	43/187	0.57(0.39-0.83)	0.51(0.34-0.75)
≥1	16/75	0.39(0.23-0.69)	0.43(0.24-0.75)	11/73	0.42(0.22-0.81)	0.46(0.23-0.89)
<i>P trend</i>		<0.001	<0.001		<0.001	<0.001
Repetitive dental ulcer						
No	570/1278	1.00	1.00	310/1298	1.00	1.00
Yes	46/30	3.42(2.13-5.51)	3.98(2.41-6.56)	52/40	5.20(3.35-8.06)	5.37(3.40-8.49)
Age of first intercourse						
>22	443/910	1.00	1.00	162/682	1.00	1.00
≤22	163/279	1.20(0.96-1.50)	1.10(0.86-1.40)	189/584	1.36(1.07-1.73)	1.59(1.21-2.09)
Missing	10/119			11/72	-	-

<sup>a</sup> Adjustment for age, education, marital status, residence, family history of cancer.

<sup>b</sup> Additional adjustment for smoking and alcohol drinking.

<sup>c</sup> Additional adjustment for passive smoking and cooking oil fumes.