

**Appendix file 3: The differences in demographic and clinical characteristics between the construction and validation dataset.**

<b>Factors</b>	<b>2010-2016 N (%)</b>	<b>2017-2018 N (%)</b>	<b>Chi-square/ Z value</b>	<b>P-value</b>
<b>Age (years)</b>			731.01	<0.001
≤65	1248635(51.2)	136328(48.5)		
>65	1190045(48.8)	144710(51.5)		
<b>Gender</b>			6.89	0.01
Male	1203836(49.4)	139467(49.6)		
Female	1234844(50.6)	141571(50.4)		
<b>Race</b>			1952.10	<0.001
White	1962889(81.6)	219206(79.3)		
Black	264289(11.0)	30189(10.9)		
Asian or pacific islander	164808(6.8)	24899(9.0)		
American Indian	14611(0.6)	2236(0.8)		
<b>Married status</b>				
None married	927767(41.6)	-		
Married	1304841(58.4)	-		
<b>Insurance</b>				
Uninsured	56887(2.5)	-		
Medical aid	277236(12.0)	-		
Insured	1983236(85.6)	-		
<b>Differentiated Grade</b>			52.59	<0.001
Well differentiated	296610(18.0)	37607(22.9)		
Moderate differentiated	702532(42.7)	71300(43.5)		
Poor differentiated	536076(32.6)	44153(26.9)		
Undifferentiated	111621(6.8)	10866(6.6)		
<b>T stage</b>			10.50	<0.001
T1	1033435(47.0)	111862(48.2)		
T2	563781(25.6)	58862(25.4)		
T3	400662(18.2)	40066(17.3)		
T4	200595(9.1)	21335(9.2)		
<b>Lymphatic metastasis</b>			14.91	<0.001
N0	1665727(73.4)	177103(74.6)		
N1	327328(14.4)	34528(14.6)		
N2	211057(9.3)	18633(7.9)		
N3	66346(2.9)	7041(3.0)		
<b>Bone metastasis</b>			114.48	<0.001

No	2314364(94.9)	265391(94.4)		
Yes	124316(5.1)	15650(5.6)		
<b>Brain metastasis</b>			1.65	0.20
No	2384501(98.1)	275069(98.1)		
Yes	47367(1.9)	5363(1.9)		
<b>Liver metastasis</b>			6.08	0.01
No	2292659(94.3)	264106(94.2)		
Yes	138930(5.7)	16344(5.8)		
<b>Lung metastasis</b>			35.33	<0.001
No	2314693(95.4)	267832(95.6)		
Yes	112119(4.6)	12244(4.4)		