

SUPPLEMENTAL DATA

Du et al: Gastrointestinal DLBCL: Clinical and prognostic analysis

Gastrointestinal diffuse large B-cell lymphoma: Clinical characteristics and prognostic analysis from SEER database

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Table S1. Interaction analysis between radiotherapy and other variables

Variables	n (%)	No	Yes	HR (95%CI)	p	P _i for interaction
All patients	3105 (100.00)	1701/274 5	198/36 0	0.75 (0.64 - 0.87)	<.00 1	
Sex						0.418
Female	1245 (40.10)	686/1098	77/147	0.69 (0.55 - 0.88)	0.00 2	
Male	1860 (59.90)	1015/164 7	121/21 3	0.79 (0.65 - 0.95)	0.01 2	
Race						0.979
Black	202 (6.51)	120/183	12/19	0.73 (0.40 - 1.33)	0.30 6	
Others	399 (12.85)	188/337	30/62	0.74 (0.50 - 1.08)	0.12 1	
White	2504 (80.64)	1393/222 5	156/27 9	0.76 (0.64 - 0.90)	0.00 1	
Chemotherapy						0.609
No/Unknow n	959 (30.89)	722/902	48/57	0.92 (0.69 - 1.24)	0.59 7	
Yes	2146 (69.11)	979/1843	150/30 3	0.83 (0.70 - 0.99)	0.03 9	
Married						0.586
Divorced	203 (6.54)	106/179	13/24	0.68 (0.38 - 1.22)	0.19 7	
Married	1789 (57.62)	919/1556	115/23	0.72 (0.59 -	<.00	

			3	0.87)	1	
Separated	25 (0.81)	9/24	0/1	0.00 (0.00 - Inf)	0.99 9	
Single	526 (16.94)	247/473	28/53	0.96 (0.65 - 1.41)	0.82 1	
Widowed	562 (18.10)	420/513	42/49	0.79 (0.58 - 1.09)	0.15 3	
Ann Arbor stage						0.341
Stage I	1366 (43.99)	701/1152	117/21 4	0.76 (0.63 - 0.93)	0.00 7	
Stage II	828 (26.67)	420/742	38/86	0.67 (0.48 - 0.94)	0.01 9	
Stage III	219 (7.05)	116/201	13/18	1.21 (0.68 - 2.15)	0.51 9	
Stage IV	692 (22.29)	464/650	30/42	0.87 (0.60 - 1.25)	0.44 3	
Age						0.155
≤60	858 (27.63)	253/753	36/105	0.93 (0.66 - 1.32)	0.70 3	
>60	2247 (72.37)	1448/199 2	162/25 5	0.70 (0.60 - 0.83)	<.00 1	
PrimarySite						0.013
stomach	1592 (51.27)	874/1325	143/26 7	0.63 (0.53 - 0.76)	<.00 1	
intestine	1513 (48.73)	827/1420	55/93	0.96 (0.73 - 1.26)	0.75	

Surgery						0.13
No	1969 (63.41)	1061/166 1	168/30 8	0.68 (0.58 - 0.80)	<.00 1	
Yes	1136 (36.59)	640/1084	30/52	0.93 (0.64 - 1.34)	0.69 7	
LNR						0.249
No	2574 (82.90)	1406/223 2	187/34 2	0.71 (0.61 - 0.83)	<.00 1	
Yes	531 (17.10)	295/513	11/18	1.04 (0.57 - 1.89)	0.90 6	
Income						0.67
≤75000	1832 (59.00)	1019/163 7	112/19 5	0.77 (0.64 - 0.94)	0.01	
>75000	1273 (41.00)	682/1108	86/165	0.72 (0.58 - 0.90)	0.00 4	

Table S2. Interaction analysis between chemotherapy and other variables

Variables	<i>n</i> (%)	No/Unkn own	Yes	HR (95%CI)	<i>p</i>	P _i for interaction
All patients	3105 (100.00)	770/959	1129/21 46	0.38 (0.35 - 0.42)	<.00 1	
Sex						0.198
Female	1245 (40.10)	345/423	418/822	0.36 (0.31 - 0.41)	<.00 1	
Male	1860 (59.90)	425/536	711/132	0.40 (0.36 -	<.00	

			4	0.45)	1	
Race						0.38
Black	202 (6.51)	55/61	77/141	0.32 (0.23 - 0.46)	<.00 1	
Others	399 (12.85)	86/112	132/287	0.35 (0.26 - 0.46)	<.00 1	
White	2504 (80.64)	629/786	920/171 8	0.39 (0.36 - 0.44)	<.00 1	
Radiotherap y						0.609
None/Unkn own	2745 (88.41)	722/902	979/184 3	0.39 (0.36 - 0.43)	<.00 1	
Yes	360 (11.59)	48/57	150/303	0.31 (0.22 - 0.42)	<.00 1	
Married						0.105
Divorced	203 (6.54)	50/63	69/140	0.34 (0.23 - 0.49)	<.00 1	
Married	1789 (57.62)	360/480	674/130 9	0.44 (0.38 - 0.50)	<.00 1	
Separated	25 (0.81)	1/2	8/23	0.47 (0.06 - 3.78)	0.47 7	
Single	526 (16.94)	108/143	167/383	0.33 (0.26 - 0.42)	<.00 1	
Widowed	562 (18.10)	251/271	211/291	0.42 (0.35 - 0.50)	<.00 1	
Ann Arbor stage						<.001

Stage I	1366 (43.99)	372/495	446/871	0.45 (0.39 - 0.52)	<.001	
Stage II	828 (26.67)	189/237	269/591	0.28 (0.23 - 0.34)	<.001	
Stage III	219 (7.05)	36/42	93/177	0.30 (0.21 - 0.45)	<.001	
Stage IV	692 (22.29)	173/185	321/507	0.28 (0.23 - 0.34)	<.001	
Age						0.084
≤60	858 (27.63)	72/155	217/703	0.52 (0.40 - 0.68)	<.001	
>60	2247 (72.37)	698/804	912/1443	0.40 (0.36 - 0.44)	<.001	
PrimarySite						0.048
stomach	1592 (51.27)	370/438	647/1154	0.34 (0.30 - 0.39)	<.001	
intestine	1513 (48.73)	400/521	482/992	0.40 (0.35 - 0.46)	<.001	
Surgery						0.12
No	1969 (63.41)	417/497	812/1472	0.34 (0.30 - 0.38)	<.001	
Yes	1136 (36.59)	353/462	317/674	0.39 (0.33 - 0.45)	<.001	
LNR						0.783
No	2574 (82.90)	602/741	991/1833	0.37 (0.33 - 0.41)	<.001	

Yes	531 (17.10)	168/218	138/313	0.36 (0.29 - 0.45)	<.001	
Income						0.375
≤75000	1832 (59.00)	466/577	665/1255	0.37 (0.33 - 0.42)	<.001	
>75000	1273 (41.00)	304/382	464/891	0.40 (0.34 - 0.46)	<.001	

Table S3. Interaction analysis between surgery and other variables

Variables	<i>n</i> (%)	No	Yes	HR (95%CI)	<i>p</i>	P _i for interaction
All patients	3105 (100.00)	1229/1969	670/1136	0.89 (0.81 - 0.98)	0.014	
Sex						0.532
Female	1245 (40.10)	501/801	262/444	0.86 (0.74 - 0.99)	0.041	
Male	1860 (59.90)	728/1168	408/692	0.91 (0.81 - 1.03)	0.131	
Race						0.46
Black	202 (6.51)	93/139	39/63	0.74 (0.51 - 1.08)	0.119	
Others	399 (12.85)	149/272	69/127	0.99 (0.74 - 1.31)	0.928	
White	2504 (80.64)	987/1558	562/946	0.88 (0.80 - 0.98)	0.019	

Radiotherapy						0.13
None/Unknown	2745 (88.41)	1061/1661	640/1084	0.84 (0.76 - 0.93)	<.001	
Yes	360 (11.59)	168/308	30/52	1.18 (0.80 - 1.75)	0.397	
Chemotherapy						0.12
No/Unknown	959 (30.89)	417/497	353/462	0.71 (0.62 - 0.82)	<.001	
Yes	2146 (69.11)	812/1472	317/674	0.77 (0.67 - 0.87)	<.001	
Married						0.242
Divorced	203 (6.54)	73/126	46/77	1.04 (0.72 - 1.51)	0.822	
Married	1789 (57.62)	656/1129	378/660	0.95 (0.84 - 1.08)	0.427	
Separated	25 (0.81)	6/15	3/10	0.76 (0.19 - 3.05)	0.698	
Single	526 (16.94)	188/331	87/195	0.71 (0.55 - 0.92)	0.009	
Widowed	562 (18.10)	306/368	156/194	0.85 (0.70 - 1.03)	0.098	
Ann Arbor stage						0.106
Stage I	1366 (43.99)	554/887	264/479	0.79 (0.68 - 0.91)	0.002	
Stage II	828 (26.67)	251/457	207/371	1.05 (0.87 - 1.26)	0.634	

Stage III	219 (7.05)	87/153	42/66	0.97 (0.67 - 1.40)	0.87	
Stage IV	692 (22.29)	337/472	157/220	0.98 (0.81 - 1.18)	0.838	
Age						0.373
≤60	858 (27.63)	192/534	97/324	0.81 (0.63 - 1.03)	0.091	
>60	2247 (72.37)	1037/1435	573/812	0.90 (0.82 - 1.00)	0.053	
PrimarySite						0.042
stomach	1592 (51.27)	911/1437	106/155	1.15 (0.94 - 1.40)	0.179	
intestine	1513 (48.73)	318/532	564/981	0.90 (0.78 - 1.03)	0.116	
LNR						0.017
No	2574 (82.90)	1222/1962	371/612	0.96 (0.86 - 1.08)	0.525	
Yes	531 (17.10)	7/7	299/524	0.36 (0.17 - 0.76)	0.008	
Income						0.438
≤75000	1832 (59.00)	731/1158	400/674	0.86 (0.76 - 0.98)	0.018	
>75000	1273 (41.00)	498/811	270/462	0.93 (0.80 - 1.08)	0.318	

Table S4. Interaction analysis between age and other variables

Variables	<i>n</i> (%)	≤60	>60	HR (95%CI)	<i>p</i>	P _i for interaction
All patients	3105 (100.00)	289/858	1610/22 47	3.12 (2.75 - 3.54)	<.00 1	
Sex						<.001
Female	1245 (40.10)	65/264	698/981	4.56 (3.53 - 5.88)	<.00 1	
Male	1860 (59.90)	224/594	912/126 6	2.71 (2.33 - 3.14)	<.00 1	
Race						0.616
Black	202 (6.51)	44/92	88/110	2.62 (1.81 - 3.78)	<.00 1	
Others	399 (12.85)	34/116	184/283	3.31 (2.29 - 4.79)	<.00 1	
White	2504 (80.64)	211/650	1338/18 54	3.25 (2.81 - 3.76)	<.00 1	
Radiotherapy						0.155
None/Unkno wn	2745 (88.41)	253/753	1448/19 92	3.20 (2.79 - 3.66)	<.00 1	
Yes	360 (11.59)	36/105	162/255	2.56 (1.78 - 3.70)	<.00 1	
Chemotherapy						0.084
No/Unknow n	959 (30.89)	72/155	698/804	2.92 (2.29 - 3.74)	<.00 1	
Yes	2146 (69.11)	217/703	912/144	2.77 (2.39 -	<.00	

			3	3.22)	1	
Married						0.099
Divorced	203 (6.54)	29/59	90/144	1.86 (1.21 - 2.86)	0.005	
Married	1789 (57.62)	132/459	902/1330	3.43 (2.85 - 4.12)	<.001	
Separated	25 (0.81)	4/17	5/8	3.41 (0.91 - 12.71)	0.068	
Single	526 (16.94)	115/304	160/222	2.59 (2.03 - 3.30)	<.001	
Widowed	562 (18.10)	9/19	453/543	3.20 (1.65 - 6.20)	<.001	
Ann Arbor stage						0.025
Stage I	1366 (43.99)	111/352	707/1014	3.34 (2.73 - 4.09)	<.001	
Stage II	828 (26.67)	70/257	388/571	3.75 (2.90 - 4.85)	<.001	
Stage III	219 (7.05)	22/76	107/143	3.50 (2.20 - 5.56)	<.001	
Stage IV	692 (22.29)	86/173	408/519	2.17 (1.72 - 2.75)	<.001	
PrimarySite						0.23
stomach	1592 (51.27)	153/408	864/1184	2.87 (2.41 - 3.41)	<.001	
intestine	1513 (48.73)	136/450	746/1063	3.39 (2.82 - 4.07)	<.001	

Surgery						0.373
No	1969 (63.41)	192/534	1037/1435	3.01 (2.57 - 3.51)	<.001	
Yes	1136 (36.59)	97/324	573/812	3.36 (2.70 - 4.17)	<.001	
LNR						0.408
No	2574 (82.90)	253/723	1340/1851	3.05 (2.66 - 3.49)	<.001	
Yes	531 (17.10)	36/135	270/396	3.74 (2.63 - 5.30)	<.001	
Income						0.807
≤75000	1832 (59.00)	177/521	954/1311	3.13 (2.66 - 3.68)	<.001	
>75000	1273 (41.00)	112/337	656/936	3.13 (2.55 - 3.83)	<.001	

Table S5. Interaction analysis between LNR and other variables

Variables	n (%)	No	Yes	HR (95%CI)	p	P _i for interaction
All patients	3105 (100.00)	1593/2574	306/531	0.84 (0.74 - 0.94)	0.004	
Sex						0.465
Female	1245 (40.10)	638/1028	125/217	0.79 (0.65 - 0.96)	0.017	
Male	1860 (59.90)	955/154	181/314	0.87 (0.74 - 1.02)	0.07	

		6		1.02)	9	
Race						0.39
Black	202 (6.51)	116/175	16/27	0.68 (0.41 - 1.16)	0.156	
Others	399 (12.85)	190/337	28/62	0.69 (0.47 - 1.03)	0.071	
White	2504 (80.64)	1287/2062	262/442	0.87 (0.76 - 0.99)	0.035	
Radiotherapy						0.249
None/Unknown	2745 (88.41)	1406/2232	295/513	0.80 (0.71 - 0.91)	<.001	
Yes	360 (11.59)	187/342	11/18	1.17 (0.63 - 2.14)	0.62	
Chemotherapy						0.783
No/Unknown	959 (30.89)	602/741	168/218	0.74 (0.62 - 0.87)	<.001	
Yes	2146 (69.11)	991/1833	138/313	0.71 (0.59 - 0.85)	<.001	
Married						0.958
Divorced	203 (6.54)	102/172	17/31	0.89 (0.53 - 1.49)	0.661	
Married	1789 (57.62)	868/1479	166/310	0.81 (0.69 - 0.96)	0.015	
Separated	25 (0.81)	7/19	2/6	0.77 (0.16 - 3.70)	0.74	

Single	526 (16.94)	234/438	41/88	0.79 (0.57 - 1.11)	0.174	0.049
Widowed	562 (18.10)	382/466	80/96	0.90 (0.71 - 1.15)	0.393	
Ann Arbor stage						
Stage I	1366 (43.99)	713/1174	105/192	0.78 (0.64 - 0.96)	0.019	
Stage II	828 (26.67)	333/606	125/222	1.02 (0.83 - 1.25)	0.864	0.408
Stage III	219 (7.05)	105/184	24/35	1.19 (0.76 - 1.86)	0.446	
Stage IV	692 (22.29)	442/610	52/82	0.70 (0.52 - 0.93)	0.014	
Age						
≤60	858 (27.63)	253/723	36/135	0.71 (0.50 - 1.00)	0.053	0.029
>60	2247 (72.37)	1340/1851	270/396	0.81 (0.71 - 0.93)	0.002	
PrimarySite						
stomach	1592 (51.27)	979/1540	38/52	1.24 (0.90 - 1.72)	0.186	
intestine	1513 (48.73)	614/1034	268/479	0.84 (0.73 - 0.97)	0.018	0.017
Surgery						
No	1969 (63.41)	1222/1962	7/7	2.13 (1.01 - 4.49)	0.046	

Yes	1136 (36.59)	371/612	299/524	0.85 (0.73 - 0.99)	0.034
Income					0.929
≤75000	1832 (59.00)	942/1511	189/321	0.84 (0.72 - 0.98)	0.03
>75000	1273 (41.00)	651/1063	117/210	0.83 (0.68 - 1.01)	0.058