

Supplementary Table S1: Patient characteristics

A) Age

Cohort 1 (Age > 65 years, N = 10,975) and cohort 2 (Age ≤ 65 years, N = 10,975) characteristics after propensity score matching. Cohort sizes may differ from the numbers indicated in Figure 1 due to the exclusion of patients with outcome prior to the index event.				
Cohort	Parameter	Mean ± SD	Patients	% of Cohort
1	Age at Diagnosis	71.9 +/- 4.5		
2		49.3 +/- 13.3		
1	Female		5149	46.9%
2			5137	46.8%
1	Male		4967	45.3%
2			4979	45.4%
1	Black or African American		574	5.2%
2			577	5.3%
1	White		7934	72.3%
2			7935	72.3%
1	Asian		215	2.0%
2			210	1.9%
1	Other Race		209	1.9%
2			206	1.9%
1	Hemoglobin (in g/dl) in Blood	12.7 +/- 2.3		
2		13.0 +/- 2.4		
1	Platelets (in ×10 ³ /μl) in Blood	216.8 +/- 110.2		
2		228.0 +/- 123.5		
1	Monocytes (in ×10 ³ /μl) in Blood	2.5 +/- 29.3		
2		4.2 +/- 46.6		
1	Basophils (in ×10 ³ /μl) in Blood	0.2 +/- 2.5		
2		0.2 +/- 2.7		
1	Eosinophils (in ×10 ³ /μl) in Blood	0.3 +/- 3.4		
2		0.3 +/- 3.7		
1	Leukocytes (in ×10 ³ /μl) in Blood	7.6 +/- 9.2		
2		14.2 +/- 170.1		

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B) Anemia

Cohort 1 (Hb < 10mg/dl, N = 3021) and cohort 2 (Hb ≥ 10mg/dl, N = 3021) characteristics after propensity score matching. Cohort sizes may differ from the numbers indicated in Figure 1 due to the exclusion of patients with outcome prior to the index event.				
Cohort	Parameter	Mean ± SD	Patients	% of Cohort
1	Age at Diagnosis	61.5 +/- 18.8		
2		62.2 +/- 17.7		
1	Female		1560	51.6%
2			1596	52.8%
1	Male		1386	45.9%
2			1361	45.1%
1	Black or African American		394	13.0%
2			399	13.2%
1	White		1735	57.4%
2			1719	56.9%
1	Asian		67	2.2%
2			79	2.6%
1	Other Race		84	2.8%
2			77	2.5%
1	Hemoglobin (in g/dl) in Blood	8.7 +/- 1.3		
2		13.3 +/- 1.6		
1	Platelets (in ×10 ³ /μl) in Blood	196.7 +/- 160.7		
2		216.8 +/- 107.7		
1	Monocytes (in ×10 ³ /μl) in Blood	3.2 +/- 40.0		
2		12.6 +/- 79.6		
1	Basophils (in ×10 ³ /μl) in Blood	0.1 +/- 1.3		
2		0.8 +/- 5.2		
1	Eosinophils (in ×10 ³ /μl) in Blood	0.3 +/- 3.4		
2		0.8 +/- 6.5		
1	Leukocytes (in ×10 ³ /μl) in Blood	9.8 +/- 60.9		
2		16.7 +/- 195.5		

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C) Leukocytosis

Cohort 1 (Leukocytes > 25×10 ³ /μl, N = 233) and cohort 2 (Leukocytes ≤ 25×10 ³ /μl, N = 233) characteristics after propensity score matching. Cohort sizes may differ from the numbers indicated in Figure 1 due to the exclusion of patients with outcome prior to the index event.				
Cohort	Parameter	Mean ± SD	Patients	% of Cohort
1	Age at Diagnosis	65.2 +/- 15.8		
2		65.7 +/- 14.2		
1	Female		95	40.8%
2			97	41.6%
1	Male		131	56.2%
2			126	54.1%
1	Black or African American		12	5.2%
2			10	4.3%
1	White		162	69.5%
2			137	58.8%
1	Asian		10	4.3%
2			10	4.3%
1	Other Race		10	4.3%
2			10	4.3%
1	Hemoglobin (in g/dl) in Blood	11.5 +/- 2.7		
2		12.8 +/- 2.7		
1	Platelets (in ×10 ³ /μl) in Blood	231.5 +/- 181.6		
2		217.4 +/- 116.3		
1	Monocytes (in ×10 ³ /μl) in Blood	98.2 +/- 328.3		
2		127.9 +/- 240.0		
1	Basophils (in ×10 ³ /μl) in Blood	8.3 +/- 15.6		
2		7.5 +/- 15.4		
1	Eosinophils (in ×10 ³ /μl) in Blood	6.3 +/- 20.0		
2		6.5 +/- 20.1		
1	Leukocytes (in ×10 ³ /μl) in Blood	360 +/- 1,061		
2		7.02 +/- 3.19		

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D) Thrombocytopenia

Cohort 1 (Thrombocytes < 150×10 ³ /μl, N = 5006) and cohort 2 (Thrombocytes ≥ 150×10 ³ /μl, N = 5006) characteristics after propensity score matching. Cohort sizes may differ from the numbers indicated in Figure 1 due to the exclusion of patients with outcome prior to the index event.				
Cohort	Parameter	Mean ± SD	Patients	% of Cohort
1	Age at Diagnosis	62.5 +/- 17.0		
2		62.9 +/- 16.8		
1	Female		1994	39.8%
2			1971	39.4%
1	Male		2845	56.8%
2			2872	57.4%
1	Black or African American		369	7.4%
2			368	7.4%
1	White		111	2.2%
2			102	2.0%
1	Asian		111	2.2%
2			102	2.0%
1	Other Race		148	3.0%
2			153	3.1%
1	Hemoglobin (in g/dl) in Blood	11.7 +/- 2.7		
2		13.1 +/- 2.3		
1	Platelets (in ×10 ³ /μl) in Blood	107.8 +/- 44.0		
2		258.8 +/- 107.6		
1	Monocytes (in ×10 ³ /μl) in Blood	5.2 +/- 49.4		
2		8.0 +/- 67.2		
1	Basophils (in ×10 ³ /μl) in Blood	0.3 +/- 2.7		
2		0.5 +/- 3.8		
1	Eosinophils (in ×10 ³ /μl) in Blood	0.3 +/- 3.3		
2		0.6 +/- 5.9		
1	Leukocytes (in ×10 ³ /μl) in Blood	12.3 +/- 144.7		
2		13.4 +/- 152.5		

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E) Monocytosis

Cohort 1 (Monocytes > 0.8×10 ³ /μl, N = 1838) and cohort 2 (Monocytes ≤ 0.8×10 ³ /μl, N = 1838) characteristics after propensity score matching. Cohort sizes may differ from the numbers indicated in Figure 1 due to the exclusion of patients with outcome prior to the index event				
Cohort	Parameter	Mean ± SD	Patients	% of Cohort
1	Age at Diagnosis	62.8 +/- 17.9		
2		64.5 +/- 16.7		
1	Female		761	41.4%
2			741	40.3%
1	Male		924	50.3%
2			941	51.2%
1	Black or African American		102	5.5%
2			87	4.7%
1	White		1248	67.9%
2			1308	71.2%
1	Asian		34	1.8%
2			32	1.7%
1	Other Race		47	2.6%
2			37	2.0%
1	Hemoglobin (in g/dl) in Blood	12.8 +/- 2.3		
2		12.9 +/- 2.3		
1	Platelets (in ×10 ³ /μl) in Blood	252.8 +/- 137.8		
2		223.1 +/- 117.3		
1	Monocytes (in ×10 ³ /μl) in Blood	18.1 +/- 98.5		
2		0.5 +/- 0.2		
1	Basophils (in ×10 ³ /μl) in Blood	0.7 +/- 4.3		
2		0.1 +/- 0.2		
1	Eosinophils (in ×10 ³ /μl) in Blood	1.2 +/- 8.2		
2		0.2 +/- 0.3		
1	Leukocytes (in ×10 ³ /μl) in Blood	20.7 +/- 219.0		
2		7.3 +/- 6.9		

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F) Basophilia

Cohort 1 (Monocytes > 0.8×10 ³ /μl, N = 513) and cohort 2 (Monocytes ≤ 0.8×10 ³ /μl, N = 513) characteristics after propensity score matching. Cohort sizes may differ from the numbers indicated in Figure 1 due to the exclusion of patients with outcome prior to the index event				
Cohort	Parameter	Mean ± SD	Patients	% of Cohort
1	Age at Diagnosis	60.0 +/- 17.3		
2		61.1 +/- 18.0		
1	Female		258	50.3%
2			242	47.2%
1	Male		223	43.5%
2			225	43.9%
1	Black or African American		36	7.0%
2			30	5.8%
1	White		301	58.7%
2			293	57.1%
1	Asian		18	3.5%
2			14	2.7%
1	Other Race		10	1.9%
2			10	1.9%
1	Hemoglobin (in g/dl) in Blood	12.7 +/- 2.4		
2		11.6 +/- 2.9		
1	Platelets (in ×10 ³ /μl) in Blood	251.4 +/- 167.2		
2		216.3 +/- 141.2		
1	Monocytes (in ×10 ³ /μl) in Blood	227.4 +/- 282.7		
2		16.6 +/- 110.9		
1	Basophils (in ×10 ³ /μl) in Blood	11.3 +/- 16.2		
2		0.0 +/- 0.1		
1	Eosinophils (in ×10 ³ /μl) in Blood	14.1 +/- 27.8		
2		0.9 +/- 4.9		
1	Leukocytes (in ×10 ³ /μl) in Blood	25.9 +/- 259.6		
2		12.2 +/- 23.2		

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G) Eosinophilia

Cohort 1 (Eosinophils > 0.5×10 ³ /μl, N = 632) and cohort 2 (Eosinophils ≤ 0.5×10 ³ /μl, N = 632) characteristics after propensity score matching. Cohort sizes may differ from the numbers indicated in Figure 1 due to the exclusion of patients with outcome prior to the index event.				
Cohort	Parameter	Mean ± SD	Patients	% of Cohort
1 2	Age at Diagnosis	59.0 +/- 19.0 60.8 +/- 17.5		
1 2	Female		313 295	49.5% 46.7%
1 2	Male		273 287	43.2% 45.4%
1 2	Black or African American		43 39	6.8% 6.2%
1 2	White		408 423	64.6% 66.9%
1 2	Asian		15 10	2.4% 1.6%
1 2	Other Race		14 11	2.2% 1.7%
1 2	Hemoglobin (in g/dl) in Blood	13.0 +/- 2.2 12.5 +/- 2.5		
1 2	Platelets (in ×10 ³ /μl) in Blood	274.0 +/- 154.8 225.5 +/- 121.4		
1 2	Monocytes (in ×10 ³ /μl) in Blood	84.7 +/- 202.8 1.7 +/- 16.8		
1 2	Basophils (in ×10 ³ /μl) in Blood	4.2 +/- 11.1 0.3 +/- 3.0		
1 2	Eosinophils (in ×10 ³ /μl) in Blood	5.8 +/- 18.2 0.1 +/- 0.1		
1 2	Leukocytes (in ×10 ³ /μl) in Blood	10.8 +/- 13.8 8.9 +/- 9.1		

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H) Simplified IPSS Score

Cohort 1 (N = 10,243, simplified IPSS 0 points), cohort 2 (N = 7840, simplified IPSS 1 point), cohort 3 (N = 1049, simplified IPSS 2 points) and cohort 4 (N= 29, simplified IPSS 3 points) characteristics without propensity score matching. Cohort sizes may differ from the numbers indicated in Figure 2 due to the exclusion of patients with outcome prior to the index event.				
Cohort	Parameter	Mean \pm SD	Patients	% of Cohort
1	Age at Diagnosis	48.7 +/- 13.4		
2		66.6 +/- 12.7		
3		71.6 +/- 6.8		
4		74.5 +/- 4.2		
1	Female		5549	
2			3788	
3			476	
4			10	
1	Male		3907	
2			3450	
3			522	
4			18	
1	Black or African American		871	
2			597	
3			86	
4			0	
1	White		5504	
2			6904	
3			677	
4			21	
1	Asian		218	
2			118	
3			19	
4			10	
1	Other Race		254	
2			127	
3			20	
4			10	
1	Hemoglobin (in g/dl) in Blood	13.4 +/- 1.9		
2		12.6 +/- 2.3		
3		10.1 +/- 1.9		
4		8.7 +/- 1.3		
1	Platelets (in $\times 10^3/\mu\text{l}$) in Blood	238 +/- 103		
2		220 +/- 111		
3		207 +/- 148		
4		229 +/- 149		
1	Monocytes (in $\times 10^3/\mu\text{l}$) in Blood	8.1 +/- 3.5		
2		8.7 +/- 4.1		
3		8.2 +/- 5.7		
4		4.6 +/- 4.7		
1	Basophils (in $\times 10^3/\mu\text{l}$) in Blood	0.6 +/- 0.6		
2		0.6 +/- 0.8		
3		0.7 +/- 2.3		
4		1.7 +/- 2.3		
1	Eosinophils (in $\times 10^3/\mu\text{l}$) in Blood	2.4 +/- 2.6		
2		2.6 +/- 2.6		
3		2.2 +/- 2.4		
4		1.9 +/- 3.0		
1	Leukocytes (in $\times 10^3/\mu\text{l}$) in Blood	8.0 +/- 6.6		
2		15.0 +/- 187		
3		20.9 +/- 186		
4		158 +/- 479		