**Supplementary Table 1** Correlation of Hgb<100 g/L, MCV>99.1 fL and Plt<150 × 10E9/L with other clinical characteristics in MM patients

|  |  |  |  |
| --- | --- | --- | --- |
|  | Hgb ＜100g/L | MCV＞99.1fl | Plt ＜150x10E9/L |
|  | n (%) | P | n (%) | P | n (%) | P |
| Age <65 | 10(20) | 0.001 | 22(24) | 0.938 | 36(40) | 0.543 |
| ≥65 | 50(50) |  | 15(25) |  | 27(45) |  |
| D-S 1+2 | 9(38) | 0.003 | 4(17) | 0.599 | 5(21) | 0.071 |
|  3A | 70(72) |  | 25(26) |  | 45(46) |  |
|  3B | 22(76) |  | 8(28) |  | 13(45) |  |
| ISS 1 | 16(37) | ＜0.001 | 9(21) | 0.402 | 12(28) | 0.029 |
|  2 | 39(75) |  | 11(21) |  | 21(40) |  |
|  3 | 46(84) |  | 17(31) |  | 30(55) |  |
| R-ISS 1 | 3(20) | ＜0.001 | 3(20) | 0.522 | 4(27) | 0.051 |
|  2 | 54(72) |  | 16(21) |  | 29(39) |  |
|  3 | 26(81) |  | 11(34) |  | 20(63) |  |
| Hgb ≥100g/L | - | - | 5(10) | 0.004 | 10(20) | ＜0.001 |
| <100g/L | - |  | 32(32) |  | 53(52) |  |
| MCV ≤ 99.1fl | 69(61) | 0.004 | - | - | 43(38) | 0.087 |
| > 99.1fl | 32(86) |  | - |  | 20(54) |  |
| Plt ≥150x10E9/L | 48(55) | ＜0.001 | 17(20) | 0.087 | - | - |
| <150x10E9/L | 53(84) |  | 20(32) |  | - |  |
| Plasma cells ≤30% | 44(56) | 0.003 | 9(12) | ＜0.001 | 27(35) | 0.056 |
| <30% | 57(79) |  | 28(39) |  | 36(50) |  |
| Cr ≤177μmol/L | 83(65) | 0.117 | 31(24) | 0.759 | 53(41) | 0.722 |
| >177μmol/L | 18(82) |  | 6(27) |  | 10(45) |  |
| LDH ≤ ULN | 82(68) | 0.601 | 28(23) | 0.449 | 44(37) | 0.008 |
| >ULN | 19(63) |  | 9(30) |  | 19(63) |  |

Abbreviations: Hgb,[hemoglobin](http://dict.cnki.net/dict_result.aspx?searchword=%e8%a1%80%e7%ba%a2%e8%9b%8b%e7%99%bd&tjType=sentence&style=&t=hemoglobin); MCV, mean corpuscular volume; Plt,[platelet](http://dict.cnki.net/dict_result.aspx?searchword=%e8%a1%80%e5%b0%8f%e6%9d%bf&tjType=sentence&style=&t=platelet); D-S, Durie-Salmon Staging; ISS, International Staging System; R-ISS, Revised International Staging System; Cr, creatinine; LDH,[lactate dehydrogenase](http://dict.cnki.net/dict_result.aspx?searchword=%e4%b9%b3%e9%85%b8%e8%84%b1%e6%b0%a2%e9%85%b6&tjType=sentence&style=&t=lactate+dehydrogenase); ULN, upper normal limit.

**Supplementary Table 2**Survival of MM patients

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Median Survival, month (95%CI) | PFS | P | OS | P |
| Age ＜65 | 33.3 (21.9-44.8)  | 0.096 | NR | 0.004 |
| ≥65 | 21.2 (12.7-29.7)  |  | 44.0(33.6-54.4) |  |
| D-S 1+2+3A | 32.6 (19.6-45.6) | 0.082 | NR | <0.001 |
|  3B  | 19.1 (14.1-24.2) |  | 31.3 (22.5-40.1) |  |
| ISS 1+2  | 33.3 (25.8-40.8)  | 0.265 | NR | <0.001 |
|  3  | 19.1 (10.0-28.3)  |  | 38.2 (25.9-50.4) |  |
| RISS 1+2  | 30.8 (21.2-40.4) | 0.092 | NR | <0.001 |
|  3  | 15.8 (5.3-26.3)  |  | 33.4(16.7-50.0) |  |
| WBC ≥4x10E9/L | 31.5 (23.4-39.6)  | 0.220 | NR | 0.729 |
| ＜4x10E9/L | 19.3 (1.4-37.2) |  | NR |  |
| Hgb ≥100g/L | 41.8 (28.3-55.3)  | 0.063 | NR | 0.071 |
| ＜100g/L  | 24.5 (13.4-35.5) |  | 64.0 |  |
| MCV ＜99.1fl | 32.6 (19.5-45.8) | 0.003 | NR | <0.001 |
| ≥99.1fl | 15.1 (10.7-19.6) |  | 33.2 (22.4-43.9) |  |
| Plt ≥150x10E9/L | 33.3 (18.5-48.2)  | 0.032 | NR | 0.027 |
| ＜150x10E9/L | 23.9 (15.5-32.3) |  | 52.4 (41.7-63.1) |  |
| Hematopoietic score 0-2 | 32.6 (21.8-43.4) | 0.001 | NR | <0.001 |
| 3 | 14.2 (11.0-17.5) |  | 31.4 (12.0-50.9) |  |
| Plasma cells ≤30%  | 41.8 (28.4-55.2) | <0.001 | NR  | <0.001 |
| ＞30% | 17.4 (12.6-22.2) |  | 39.2 (27.6-50.7) |  |
| Cr ≤177umol/L | 30.8 (22.5-39.1) | 0.264 | NR | <0.001 |
| ＞177umol/L | 18.6 (12.7-24.6) |  | 29.8 (10.6-48.9) |  |
| LDH ≤ ULN | 33.3 (20.8-45.8) | 0.051 | NR | 0.240 |
| ＞ ULN | 18.6 (14.2-23.1) |  | 45.4 |  |

Abbreviations: CI, confidence interval; PFS, progression-free survival; NR,not reached; OS, overall survival; D-S, Durie-Salmon Staging; ISS, International Staging System; R-ISS, Revised International Staging System; WBC, white blood cell; Hgb, [hemoglobin](http://dict.cnki.net/dict_result.aspx?searchword=%e8%a1%80%e7%ba%a2%e8%9b%8b%e7%99%bd&tjType=sentence&style=&t=hemoglobin); MCV,mean corpuscular volume; Plt, [platelet](http://dict.cnki.net/dict_result.aspx?searchword=%e8%a1%80%e5%b0%8f%e6%9d%bf&tjType=sentence&style=&t=platelet); Cr, creatinine; LDH, [lactate dehydrogenase](http://dict.cnki.net/dict_result.aspx?searchword=%e4%b9%b3%e9%85%b8%e8%84%b1%e6%b0%a2%e9%85%b6&tjType=sentence&style=&t=lactate+dehydrogenase); ULN, upper normal limit.