***Table S1 clinical detail of 115 patients with first MC onset requiring ICU treatment***

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | ***Age at first MC onset (yr)*** | | | ***Sex*** | | ***MG-ADL***  ***scale***  ***score*** | | | ***MGFA*** | | | | | ***pH*** | | | ***PO2*** | | | ***PCO2*** | | | ***Precipitant*** | | | ***Comorbidities*** |
| 1 | | 39.12 | | F | | | 13 | | IIIB | | | 7.33 | | | | 73.5 | | | | 51.4 | | Infection | | | | N/A | | |
|
|
|
| 2 | | 41.52 | | F | | | 14 | | IIB | | | | 7.39 | | | 71.5 | | | | 48.5 | | Infection | | | | Hypertension+Hyperlipidemia | | |
|
|
| 3 | | 25.89 | | F | | | 20 | | IIB | | | | 7.43 | | | 57 | | | | 43 | | Infection | | | | Hepatitis | | |
|
|
|
| 4 | | 41.45 | | M | | | 16 | | IIIB | | | | 7.26 | | | 64 | | | | 75 | | Infection+hypokalemia | | | | DM+Hyperlipidemia | | |
|
|
|
| 5 | | 64.32 | | M | | | 23 | | IVB | | | | 7.11 | | | 57 | | | | 82 | | N/A | | | | Heart disease | | |
|
|
|
| 6 | | 23.9 | | M | | | 12 | | IIB | | | | 7.38 | | | 65.5 | | | | 48.5 | | Infection | | | | N/A | | |
|
|
| 7 | | 17.42 | | M | | | 12 | | IIIB | | | | 7.49 | | | 119.4 | | | | 36.5 | | Infection | | | | N/A | | |
|
|
|
| 8 | | 27.52 | | M | | | 18 | | IIIB | | | | 7.42 | | | 76.1 | | | | 48.2 | | N/A | | | | Hepatitis | | |
|
|
| 9 | | 67.43 | | M | | | 21 | | IIIB | | | | 7.28 | | | 59.6 | | | | 81.5 | | medication | | | | DM+COPD | | |
|
|
|
| 10 | | 37.85 | | F | | | 15 | | IIIB | | | | 7.39 | | | 107.6 | | | | 47.5 | | N/A | | | | Hyperlipidemia | | |
|
|
| 11 | | 72.5 | | F | | | 24 | | IIB | | | | 7.18 | | | 64.5 | | | | 49.2 | | medication | | | | Hypertension | | |
|
|
|
| 12 | | 63.6 | | M | | | 21 | | IIIB | | | | 7.22 | | | 73 | | | | 93.1 | | N/A | | | | Hypertension+Hyperlipidemia | | |
|
|
|
| 13 | | 34.57 | | F | | | 24 | | IIIB | | | | 7.46 | | | 109.1 | | | | 38.8 | | Infection | | | | N/A | | |
|
|
| 14 | | 53.8 | | F | | | 21 | | IIIB | | | | 7.39 | | | 77.9 | | | | 59.5 | | Infection | | | | DM | | |
|
|
|
|
| 15 | | 36.65 | | F | | | 16 | | IIIB | | | | 7.29 | | | 82.5 | | | | 66.1 | | N/A | | | | AID | | |
|
|
| 16 | | 67.3 | | F | | | 21 | | IVB | | | | 7.48 | | | 176.5 | | | | 42.1 | | N/A | | | | Hypertension+DM+Hyperlipidemia | | |
|
|
| 17 | | 22.41 | | F | | | 17 | | IIB | | | | 7.39 | | | 71.4 | | | | 52.3 | | pregnancy | | | | N/A | | |
|
| 18 | | 42.68 | | F | | | 23 | | IIB | | | | 7.33 | | | 82.2 | | | | 58.9 | | Infection | | | | Hypertension | | |
|
| 19 | | 21.36 | | F | | | 15 | | IIB | | | | 7.56 | | | 202.3 | | | | 26.3 | | N/A | | | | N/A | | |
|
|
| 20 | | 33.85 | | F | | | 20 | | IIIB | | | | 7.49 | | | 92 | | | | 42 | | Hypokalemia | | | | SLE | | |
|
|
|
| 21 | | 17.62 | | M | | | 24 | | IIIB | | | | 7.42 | | | 230.5 | | | | 52 | | Infection | | | | N/A | | |
|
|
|
|
| 22 | | 55.23 | | F | | | 10 | | IIB | | | | 7.43 | | | 122.5 | | | | 48.5 | | N/A | | | | COPD+Hyperlipidemia | | |
|
|
|
| 23 | | 31.57 | | F | | | 9 | | IIIB | | | | 7.42 | | | 184 | | | | 37 | | Infection | | | | N/A | | |
|
|
|
| 24 | | 51.38 | | F | | | 12 | | IIB | | | | 7.51 | | | 141.4 | | | | 29.5 | | N/A | | | | Hypertension | | |
|
|
| 25 | | 32.78 | | F | | | 14 | | IIIB | | | | 7.42 | | | 132.5 | | | | 40.8 | | medication | | | | N/A | | |
|
|
|
| 26 | | 26.83 | | F | | | 15 | | IIIB | | | | 7.44 | | | 108.7 | | | | 29.7 | | Infection | | | | DM | | |
|
|
|
|  | | 23.58 | | F | | | 13 | | IIIB | | | | 7.39 | | | 168.7 | | | | 49.2 | | Emotional upset | | | | N/A | | |
| 27 | |
|  | |
|  | | 43.12 | | F | | | 11 | | IIB | | | | 7.39 | | | 109.2 | | | | 36.3 | | Infection | | | | Hypertension+Hyperlipidemia | | |
| 28 | |
|  | |
| 29 | | 37.72 | | F | | | 13 | | IIIB | | | | 7.33 | | | 72.6 | | | | 52.4 | | N/A | | | | Hyperlipidemia | | |
|
|
|
| 30 | | 41.45 | | F | | | 16 | | IIB | | | | 7.45 | | | 71 | | | | 39 | | Infection | | | | Hyperlipidemia | | |
|
|
| 31 | | 21.36 | | F | | | 21 | | IIB | | | | 7.43 | | | 60 | | | | 52.5 | | Infection | | | | N/A | | |
|
|
|
| 32 | | 52.5 | | f | | | 12 | | IIIB | | | | 7.26 | | | 61 | | | | 82 | | Infection+hypokalemia | | | | Hypertension | | |
|
|
|
| 33 | | 62.2 | | M | | | 24 | | IVB | | | | 7.13 | | | 56 | | | | 73 | | Infection | | | | Hepatitis | | |
|
|
|
| 34 | | | 24.78 | | | M | | 11 | | | IIB | | | 7.38 | | | 63.5 | | 49 | | | | medication | | N/A | | | | |
|
|
| 35 | | | 22.42 | | | M | | 12 | | | IIIB | | | 7.49 | | | 120.4 | | 35 | | | | Infection | | N/A | | | | |
|
|
|
| 36 | | | 18.35 | | | M | | 16 | | | IIIB | | | 7.4 | | | 75.6 | | 40.5 | | | | N/A | | N/A | | | | |
|
|
| 37 | | | 63.7 | | | M | | 22 | | | IIIB | | | 7.28 | | | 59.1 | | 79.4 | | | | medication | | Hypertension+DM+COPD | | | | |
|
|
|
| 38 | | | 33.68 | | | F | | 15 | | | IIIB | | | 7.39 | | | 108.6 | | 49.3 | | | | N/A | | N/A | | | | |
|
|
| 39 | | | 70.5 | | | F | | 24 | | | IIB | | | 7.16 | | | 64.2 | | 62.2 | | | | medication | | Hypertension | | | | |
|
|
|
| 40 | | | 61.8 | | | M | | 21 | | | IIIB | | | 7.22 | | | 67 | | 91.1 | | | | Infection+hypokalemia | | Cancer+Hyperlipidemia | | | | |
|
|
|
| 41 | | | 39.21 | | | F | | 24 | | | IIIB | | | 7.47 | | | 108.1 | | 42.8 | | | | Infection | | DM+Heart disease | | | | |
|
|
| 42 | | | 53.6 | | | F | | 21 | | | IIIB | | | 7.39 | | | 74.9 | | 49.5 | | | | Infection | | Hypertension | | | | |
|
|
|
|
| 43 | | | 35.34 | | | F | | 16 | | | IIIB | | | 7.27 | | | 80.5 | | 46.1 | | | | medication | | Hyperlipidemia+AID | | | | |
|
|
| 44 | | | 68.9 | | | F | | 21 | | | IVB | | | 7.49 | | | 177.2 | | 37.1 | | | | N/A | | Hypertension | | | | |
|
|
| 45 | | | 56.8 | | | M | | 16 | | | IIIB | | | 7.22 | | | 70.5 | | 42.5 | | | | Infection | | Hypertension | | | | |
|
| 46 | | | 22.45 | | | F | | 18 | | | IIB | | | 7.39 | | | 81.4 | | 45.3 | | | | pregnancy | | SLE | | | | |
|
| 47 | | | 40.25 | | | F | | 21 | | | IIB | | | 7.34 | | | 72.2 | | 54.9 | | | | N/A | | N/A | | | | |
|
| 48 | | | 21.56 | | | F | | 18 | | | IIB | | | 7.57 | | | 205.3 | | 28.5 | | | | N/A | | N/A | | | | |
|
|
| 49 | | | 40.46 | | | F | | 20 | | | IIIB | | | 7.47 | | | 192 | | 38 | | | | medication | | Hypertension | | | | |
|
|
|
| 50 | | | 18.78 | | | M | | 21 | | | IIIB | | | 7.42 | | | 130.6 | | 43 | | | | Infection | | N/A | | | | |
|
|
|
|
| 51 | | | 20.56 | | | M | | 13 | | | IIB | | | 7.43 | | | 122.5 | | 47 | | | | N/A | | N/A | | | | |
|
|
|
| 52 | | | 37.33 | | | F | | 9 | | | IIIB | | | 7.42 | | | 184 | | 37 | | | | Infection | | Hypertension+Hepatitis | | | | |
|
|
|
| 53 | | | 34.73 | | | F | | 10 | | | IIB | | | 7.53 | | | 141.4 | | 34.4 | | | | N/A | | Hepatitis | | | | |
|
|
| 54 | | | 43.63 | | | F | | 14 | | | IIIB | | | 7.43 | | | 132.5 | | 33.8 | | | | N/A | | Hypertension | | | | |
|
|
|
| 55 | | | 29.12 | | | F | | 14 | | | IIIB | | | 7.43 | | | 110.5 | | 37.7 | | | | Infection | | Hyperthyroidism | | | | |
|
|
|
|  | | | 19.24 | | | F | | 14 | | | IIIB | | | 7.38 | | | 169.1 | | 50.2 | | | | Infection | | N/A | | | | |
| 56 | | |
|  | | |
|  | | | 53.25 | | | F | | 13 | | | IIB | | | 7.39 | | | 111.5 | | 29.3 | | | | Infection | | Hypertension | | | | |
| 57 | | |
|  | | |
| 58 | | | 47.23 | | | F | | 16 | | | IIIB | | | 7.36 | | | 75.6 | | 45.4 | | | | N/A | | Hypertension | | | | |
|
|
|
| 59 | | | 29.5 | | | F | | 14 | | | IIB | | | 7.49 | | | 72.5 | | 47.2 | | | | Infection | | DM | | | | |
|
|
| 60 | | | 28.82 | | | F | | 15 | | | IIB | | | 7.48 | | | 61 | | 46 | | | | Infection | | Hyperthyroidism | | | | |
|
|
|
| 61 | | | 38.95 | | | M | | 16 | | | IIIB | | | 7.29 | | | 62 | | 73 | | | | Infection+hypokalemia | | Heart disease | | | | |
|
|
|
| 62 | | | 63.6 | | | M | | 24 | | | IVB | | | 7.16 | | | 56 | | 76 | | | | Infection | | Hypertension+DM | | | | |
|
|
|
| 63 | | | 30.41 | | | M | | 12 | | | IIB | | | 7.47 | | | 64.8 | | 48 | | | | Infection | | Hepatitis | | | | |
|
|
| 64 | | | 17.9 | | | M | | 16 | | | IIIB | | | 7.56 | | | 75.8 | | 31 | | | | Infection | | N/A | | | | |
|
|
|
| 65 | | | 20.45 | | | M | | 15 | | | IIIB | | | 7.48 | | | 118.5 | | 35.4 | | | | Infection+hypokalemia | | N/A | | | | |
|
|
| 66 | | | 63.53 | | | M | | 19 | | | IIIB | | | 7.29 | | | 60 | | 90.1 | | | | medication | | Hypertension+COPD | | | | |
|
|
|
| 67 | | | 26.85 | | | F | | 17 | | | IIIB | | | 7.39 | | | 98.5 | | 45.5 | | | | N/A | | N/A | | | | |
|
|
| 68 | | | 74.21 | | | F | | 24 | | | IIB | | | 7.19 | | | 74.5 | | 62 | | | | medication | | Hypertension+Stroke | | | | |
|
|
|
| 69 | | | 61.72 | | | M | | 19 | | | IIIB | | | 7.25 | | | 65.5 | | 90.5 | | | | medication | | Hypertension+Cancer | | | | |
|
|
|
| 70 | | | 47.42 | | | F | | 24 | | | IIIB | | | 7.45 | | | 88.1 | | 29.8 | | | | Infection | | Cancer | | | | |
|
|
| 71 | | | 54.56 | | | F | | 21 | | | IIIB | | | 7.4 | | | 94.9 | | 44.5 | | | | Infection | | COPD | | | | |
|
|
|
|
| 72 | | | 37.43 | | | F | | 16 | | | IIIB | | | 7.3 | | | 81.5 | | 58.5 | | | | N/A | | N/A | | | | |
|
|
| 73 | | | 65.63 | | | F | | 21 | | | IVB | | | 7.49 | | | 165.2 | | 35.2 | | | | medication | | Hypertension | | | | |
|
|
| 74 | | | 68.32 | | | M | | 18 | | | IIIB | | | 7.2 | | | 81.5 | | 44.6 | | | | Infection | | Hyperlipidemia | | | | |
|
| 75 | | | 23.5 | | | F | | 18 | | | IIB | | | 7.36 | | | 85.4 | | 46.1 | | | | pregnancy | | N/A | | | | |
|
| 76 | | | 42.84 | | | F | | 22 | | | IIB | | | 7.38 | | | 73.5 | | 54.9 | | | | Infection | | DM | | | | |
|
| 77 | | | 38.23 | | | F | | 20 | | | IIIB | | | 7.49 | | | 172 | | 41.8 | | | | N/A | | Hypertension | | | | |
|
|
|
| 78 | | | 18.21 | | | M | | 21 | | | IIIB | | | 7.49 | | | 150.5 | | 46 | | | | Infection | | N/A | | | | |
|
|
|
|
| 79 | | | 25.33 | | | M | | 10 | | | IIB | | | 7.43 | | | 125.5 | | 47.8 | | | | N/A | | DM | | | | |
|
|
|
| 80 | | | 34.78 | | | F | | 9 | | | IIIB | | | 7.42 | | | 194 | | 29 | | | | Infection | | Cancer | | | | |
|
|
|
| 81 | | | 45.12 | | | F | | 16 | | | IIB | | | 7.53 | | | 131.6 | | 18.3 | | | | N/A | | Hypertension | | | | |
|
|
| 82 | | | 25.8 | | | F | | 13 | | | IIIB | | | 7.46 | | | 122.1 | | 37.8 | | | | N/A | | SLE | | | | |
|
|
|
| 83 | | | 25.24 | | | F | | 14 | | | IIIB | | | 7.42 | | | 118.5 | | 38.8 | | | | medication | | DM | | | | |
|
|
|
| 84 | | | 21.34 | | | F | | 15 | | | IIIB | | | 7.36 | | | 157.7 | | 42.8 | | | | Infection | | N/A | | | | |
|
|
| 85 | | | 40.56 | | | F | | 13 | | | IIB | | | 7.39 | | | 119.7 | | 27.9 | | | | Infection | | Hypertension | | | | |
|
|
| 86 | | | 54.67 | | | M | | 24 | | | IIIB | | | 7.33 | | | 77.6 | | 50.4 | | | | Infection | | Hypertension | | | | |
|
|
|
| 87 | | | 41.46 | | | F | | 14 | | | IIB | | | 7.45 | | | 70 | | 48.8 | | | | Infection | | N/A | | | | |
|
|
| 88 | | | 23.78 | | | F | | 12 | | | IIB | | | 7.46 | | | 59 | | 36 | | | | Infection | | N/A | | | | |
|
|
|
| 89 | | | 50.19 | | | M | | 15 | | | IIIB | | | 7.25 | | | 63 | | 68 | | | | Infection+hypokalemia | | Hypertension | | | | |
|
|
|
| 90 | | | 53.21 | | | M | | 24 | | | IVB | | | 7.16 | | | 63.5 | | 82 | | | | Infection | | N/A | | | | |
|
|
|
| 91 | | | 29.86 | | | M | | 13 | | | IIB | | | 7.39 | | | 57.5 | | 55.8 | | | | Infection | | N/A | | | | |
|
|
| 92 | | | 20.78 | | | M | | 12 | | | IIIB | | | 7.47 | | | 132.4 | | 33 | | | | Infection | | N/A | | | | |
|
|
|
| 93 | | | 19.45 | | | M | | 17 | | | IIIB | | | 7.41 | | | 85.6 | | 40 | | | | Infection+hypokalemia | | N/A | | | | |
|
|
| 94 | | | 62.32 | | | M | | 21 | | | IIIB | | | 7.28 | | | 56 | | 76.5 | | | | medication | | Hypertension+Heart disease+Hyperlipidemia | | | | |
|
|
|
| 95 | | | 45.9 | | | F | | 16 | | | IIIB | | | 7.39 | | | 118.6 | | 39.2 | | | | N/A | | Hypertension | | | | |
|
|
| 96 | | | 51.62 | | | F | | 9 | | | IIB | | | 7.16 | | | 65.2 | | 56.8 | | | | Infection | | N/A | | | | |
|
|
|
| 97 | | | 54.18 | | | M | | 21 | | | IIIB | | | 7.21 | | | 71.2 | | 93.1 | | | | medication | | Hypertension | | | | |
|
|
|
| 98 | | | 39.5 | | | F | | 24 | | | IIIB | | | 7.46 | | | 128.1 | | 38.8 | | | | Infection | | Hypertension | | | | |
|
|
| 99 | | | 71.16 | | | F | | 21 | | | IIIB | | | 7.36 | | | 84.9 | | 42.9 | | | | medication | | Hypertension+DM | | | | |
|
|
|
|
| 100 | | | 33.56 | | | F | | 17 | | | IIIB | | | 7.25 | | | 76.5 | | 46.1 | | | | medication | | Hepatitis | | | | |
|
|
| 101 | | | 51.08 | | | F | | 21 | | | IVB | | | 7.47 | | | 137.2 | | 42.1 | | | | N/A | | Hypertension | | | | |
|
|
| 102 | | | 75.8 | | | M | | 16 | | | IIIB | | | 7.22 | | | 100.5 | | 49.5 | | | | Infection | | Hypertension+DM | | | | |
|
| 103 | | | 21.85 | | | F | | 18 | | | IIB | | | 7.36 | | | 91.4 | | 42.3 | | | | medication | | N/A | | | | |
|
| 104 | | | 41.08 | | | F | | 22 | | | IIB | | | 7.33 | | | 82.5 | | 46.5 | | | | Infection | | N/A | | | | |
|
| 105 | | | 54.18 | | | M | | 21 | | | IIB | | | 7.56 | | | 180.3 | | 27.3 | | | | N/A | | N/A | | | | |
|
|
| 106 | | | 52.35 | | | F | | 16 | | | IIIB | | | 7.46 | | | 220 | | 42 | | | | Infection+hypokalemia | | Hypertension+DM | | | | |
|
|
|
| 107 | | | 25.78 | | | M | | 21 | | | IIIB | | | 7.41 | | | 153.6 | | 49 | | | | Infection | | N/A | | | | |
|
|
|
|
| 108 | | | 30.67 | | | F | | 10 | | | IIB | | | 7.43 | | | 123.5 | | 40 | | | | N/A | | N/A | | | | |
|
|
|
| 109 | | | 51.28 | | | M | | 9 | | | IIIB | | | 7.41 | | | 185 | | 31 | | | | Infection | | Cancer | | | | |
|
|
|
| 110 | | | 44.12 | | | F | | 14 | | | IIB | | | 7.52 | | | 143.4 | | 33.4 | | | | N/A | | DM | | | | |
|
|
| 111 | | | 39.88 | | | F | | 15 | | | IIIB | | | 7.44 | | | 122.5 | | 29.5 | | | | N/A | | N/A | | | | |
|
|
|
| 112 | | | 34.26 | | | F | | 14 | | | IIIB | | | 7.32 | | | 107.7 | | 39.2 | | | | N/A | | N/A | | | | |
|
|
|
|  | | | 22.56 | | | F | | 10 | | | IIIB | | | 7.36 | | | 166.5 | | 45.8 | | | | Infection | | N/A | | | | |
| 113 | | |
|  | | |  | | |  | |  | | |  | | |  | | |  | |  | | | |  | |  | | | | |

Abbreviations: mo, month(s); N/A, not available; yr, year(s); DM, diabetic mellitus; SLE, Systemic lupus erythematosus; AID, autoimmune disease; COPD, Chronic obstructive pulmonary disease.