***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.