

Supplemental Table 1. Detailed information of the underlying conditions in each patient

| No | Age | Sex | HHH | Bone marrow cellularity | Malignancy | Clinical diagnosis | Major metastatic sites | Major complication | Sepsis | DIC | Shock |
|----|-----|-----|----------|-------------------------|------------|-----------------------------|---|-----------------------------------|--------|-----|-------|
| 1 | 53 | F | Hypo- | Hypocellular | + | AML | | sepsis (Fusarium, CMV, bacteria) | + | + | - |
| 2 | 56 | M | Hypo- | Hypocellular | + | AML | | sepsis (fungus, CMV, bacteria) | + | + | - |
| 3 | 66 | M | Hypo- | Hypocellular | + | AML | | lobal pneumonia | - | - | - |
| 4 | 66 | F | Hypo- | Hypocellular | + | Malignant lymphoma | | sepsis, brain abscess (bacterial) | + | + | + |
| 5 | 54 | M | Hypo- | Hypocellular | + | Malignant lymphoma | brain, liver, spleen, kidney | aspiration pneumonia | - | + | - |
| 6 | 78 | M | Hypo- | Hypocellular | + | Myelofibrosis | | pneumonia | - | + | - |
| 7 | 59 | M | Hypo- | Hypocellular | - | Aplastic anemia | | TRALI | - | + | + |
| 8 | 53 | M | Hypo- | Hypocellular | - | Massive ascites | | enterocolitis, pneumonia, sepsis | + | + | - |
| 9 | 75 | M | Severe | Hypercellular | + | AML | liver, spleen, adrenal gland, lymph nodes | pneumonia (Aspergillosis), sepsis | + | + | - |
| 10 | 79 | F | Severe | Hypercellular | + | AML | | infectious endocarditis, sepsis | + | - | + |
| 11 | 60 | F | Severe | Normocellular | + | Malignant lymphoma | | sepsis (CMV) | + | + | + |
| 12 | 71 | M | Severe | Hypercellular | + | Malignant lymphoma | bone marrow, liver, spleen, pancreas | | - | + | - |
| 13 | 76 | M | Severe | Hypercellular | + | MDS | spleen | pulmonary abscess, prostatitis | - | + | - |
| 14 | 65 | F | Severe | Normocellular | - | Microscopic polyangiitis | | sepsis (fungus) | + | + | + |
| 15 | 55 | F | Severe | Normocellular | + | Ovarian cancer | ovary, bladder, peritoneum | | - | - | - |
| 16 | 64 | F | Severe | Hypercellular | + | External genital cancer | skin, peritoneum, lymph nodes | pneumonia | - | + | - |
| 17 | 53 | M | Severe | Hypercellular | + | Rectal cancer | brain, lung, liver, kidney, adrenal gland, skin, lymph nodes | | - | - | - |
| 18 | 59 | M | Severe | Hypercellular | + | Bile duct cancer | lung, pleura, liver, pancreas, peritoneum, bone marrow, lymph nodes | | - | - | - |
| 19 | 65 | F | Severe | Slightly hypercellular | - | Acute subdural hemorrhage | | pneumonia | - | + | - |
| 20 | 53 | M | Moderate | Hypercellular | + | AML | liver, spleen, kidney, testis | sepsis, tumor lysis syndrome | + | + | + |
| 21 | 70 | F | Moderate | Hypercellular | + | AML | liver, spleen, lymph nodes | lobal pneumonia | - | + | - |
| 22 | 68 | F | Moderate | Slightly hypocellular | + | Gallbladder cancer | brain, lung, liver, adrenal gland, lymph nodes | sepsis | + | + | - |
| 23 | 91 | M | Moderate | Normocellular | - | Hemorrhagic gastric ulcer | | sepsis | + | - | + |
| 24 | 74 | M | Moderate | Normocellular | - | Interstitial pneumonia | | interstitial pneumonia | - | - | - |
| 25 | 70 | M | Moderate | Hypercellular | - | Liver cirrhosis | | | - | - | + |
| 26 | 69 | F | Moderate | Normocellular | + | Colon cancer | lung, diaphragma, liver, peritoneum, rectum | pyelonephritis, pneumonia, sepsis | + | - | - |
| 27 | 59 | M | Moderate | Normocellular | + | Colon cancer | liver, peritoneum | pan-peritonitis, sepsis | + | - | + |
| 28 | 54 | F | Moderate | Hypercellular | + | Breast cancer | brain, lung, heart, liver, spleen, bone marrow, lymph nodes | aspiration pneumonia | - | + | - |
| 29 | 83 | F | Moderate | Normocellular | + | Gastric cancer | lung, pancreas, colon, peritoneum, lymph nodes | | - | - | - |
| 30 | 73 | M | Mild | Hypercellular | + | AML | | | - | - | + |
| 31 | 68 | F | Mild | Hypocellular | + | Malignant lymphoma | skin, adrenal gland, lymph nodes | pneumonia, acute tubular necrosis | - | - | - |
| 32 | 70 | F | Mild | Hypercellular | + | Malignant lymphoma | bone marrow, lung, liver, spleen, adrenal gland, kidney, uterus | | - | + | - |
| 33 | 74 | F | Mild | Hypercellular | + | Malignant lymphoma | brain, bone marrow, heart, lung, liver, spleen, kidney, bladder | | - | + | - |
| 34 | 79 | F | Mild | Hypercellular | + | MDS | heart, lung, esophagus, liver, spleen, kidney, lymph nodes | | - | + | - |
| 35 | 56 | M | Mild | Hypercellular | + | Gall bladder cancer | lung, liver, spleen, peritoneum, adrenal gland, lymph nodes | pneumonia (fungus) | - | + | - |
| 36 | 79 | M | Mild | Hypercellular | + | Lung cancer | bone marrow, pleura, kidney, adrenal gland, skin, lymph nodes | pneumonia | - | - | - |
| 37 | 53 | M | Mild | Normocellular | - | Hypertrophic cardiomyopathy | | prostatitis | - | - | - |
| 38 | 79 | M | Mild | Normocellular | - | Pneumonia | | pneumonia | - | - | - |

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|----|----|---|------|------------------------|---|---------------------------|---|---------------------------|---|---|---|
| 39 | 63 | M | Mild | Normocellular | + | Hepatoma | lung, adrenal gland | | - | - | + |
| 40 | 74 | F | Mild | Normocellular | + | Ovarian cancer | lymph nodes | pneumonia | - | - | - |
| 41 | 52 | M | Mild | Normocellular | + | Gingival cancer | lung, lymph nodes | pulmonary abscess | - | - | - |
| 42 | 71 | M | Mild | Normocellular | + | Glioblastoma | | pneumonia | - | - | - |
| 43 | 85 | F | Mild | Hypercellular | + | Cervical cancer | bladder | | - | - | - |
| 44 | 73 | M | - | Normocellular | + | Lung cancer | lung | sepsis (MRSA) | + | + | + |
| 45 | 71 | M | - | Hypercellular | + | Lung cancer | lung, liver, bone marrow, adrenal gland, kidney, lymph nodes | acute tubular necrosis | - | + | - |
| 46 | 90 | F | - | Hypercellular | + | Colon cancer | lymph nodes | pneumonia, pyelonephritis | - | - | - |
| 47 | 87 | F | - | Normocellular | + | Pancreas cancer | bile duct, duodenum | | - | + | - |
| 48 | 50 | M | - | Hypocellular | + | Hepatoma | | | - | - | + |
| 49 | 81 | M | - | Hypocellular | + | Hepatoma | | | - | - | + |
| 50 | 0 | M | - | Normocellular | - | Infectious enteritis | | sepsis (Acinetobacter) | + | - | + |
| 51 | 76 | F | - | Normocellular | - | Diabetes mellitus | | tuberculosis, colitis | - | + | - |
| 52 | 84 | M | - | Normocellular | - | Viral pneumonia | | pneumonia (CMV) | - | + | - |
| 53 | 42 | F | - | Hypercellular | - | MELAS | | pneumonia | - | + | - |
| 54 | 52 | F | - | Normocellular | - | MELAS | | | - | + | - |
| 55 | 51 | M | - | Normocellular | - | Alcoholic liver cirrhosis | | | - | + | + |
| 56 | 68 | M | - | Hypocellular | - | Diabetes mellitus | | | - | - | - |
| 57 | 94 | F | - | Normocellular | - | Pneumonia | | | - | - | - |
| 58 | 68 | M | - | Normocellular | - | Diffuse panbronchiolitis | | | - | - | - |
| 59 | 42 | M | - | Normocellular | - | Osteochondrodysplasia | | | - | - | - |
| 60 | 65 | F | - | Normocellular | + | Pharyngeal cancer | | sepsis | + | - | - |
| 61 | 67 | M | - | Slightly hypercellular | + | Hypopharyngeal cancer | lung, liver, lymph nodes | sepsis | + | + | + |
| 62 | 74 | F | - | Slightly hypercellular | + | Renal cancer | brain, bone marrow, liver, spleen, kidney, adrenal gland, lymph nodes | pneumonia | - | - | - |
| 63 | 87 | F | - | Normocellular | + | Cervical cancer | en bloc of pelvic organs | pneumonia, pyelonephritis | - | - | - |
| 64 | 81 | M | - | Hypercellular | + | Lung cancer | bone marrow, lung, liver, lymph nodes | aspiration pneumonia | - | - | - |
| 65 | 52 | F | - | Hypercellular | + | Colon cancer | bone marrow, lung, liver, adrenal gland, kidney, lymph nodes | pan-peritonitis | - | - | - |
| 66 | 78 | M | - | Hypercellular | + | Gastric cancer | peritoneum | | - | - | - |
| 67 | 64 | M | - | Hypercellular | + | Gastric cancer | bone marrow, lung, liver, duodenum, lymph nodes | | - | - | - |
| 68 | 74 | F | - | Normocellular | + | Ovarian cancer | peritoneum | | - | - | - |
| 69 | 35 | M | - | Hypercellular | - | Infectious endocarditis | | sepsis | + | + | - |
| 70 | 73 | F | - | Normocellular | - | Subarachnoid hemorrhage | | pneumonia | - | - | - |

Abbreviations; AML; acute myelocytic leukemia, CMV; cytomegalovirus, MDS; myelodysplastic syndrome, MELAS; myopathy, encephalopathy, lactic acidosis and stroke-like episode, MRSA; methicillin-resistant staphylococcus aureus,

TRALI; transfusion-related acute lung injury