**Additional file 2. Nonepithelial malignancy identified in patients with MUO**

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| --- | --- |
| Nonepithelial malignancy | Number |
| Malignant lymphoma | 45 |
| Malignant myeloma | 4 |
| Leukemia | 1 |
| Sarcoma | 32 |
| Malignant mesothelioma | 12 |
| Germ cell tumor | 10 |
| Malignant melanoma | 2 |
| Brain tumor | 1 |

MUO: malignancy of unknown origin