**Supplemental Table SDC1**

Supplemental Table 1A: NYU cohort demographics, clinical features and nuclear BAP1 stain.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ID | Gender | Age at Diagnosis | Ethnicity | Harmful Exposure Substancea | Specimen Histologic Type | Therapy Type | Death | Survival(months) | Nuclear BAP1 Stain |
| NYU-47 | male | 75 | caucasian | asbestos | biphasic | surgery | No | 56 | + |
| NYU-207 | female | 73 | caucasian | none | epithelioid | surgery | No | 23 | - |
| NYU-217 | male | 73 | caucasian | possible | biphasic | surgery | No | 0 | + |
| NYU-269 | male | 74 | caucasian | asbestos | epithelioid | surgery | No | 57 | + |
| NYU-517 | male | 74 | caucasian | asbestos | epithelioid | other | No | 7 | + |
| NYU-524 | female | 73 | caucasian | none | biphasic | surgery | No | 64 | - |
| NYU-540 | male | 49 | caucasian | asbestos | epithelioid | surgery | No | 93 | - |
| NYU-559 | male | 56 | caucasian | asbestos | epithelioid | surgery | No | 18 | - |
| NYU-647 | male | 62 | caucasian | asbestos | epithelioid | other | No | 8 | - |
| NYU-658 | male | 70 | caucasian | asbestos | epithelioid | surgery | No | 18 | - |
| NYU-809 | male | 63 | caucasian | asbestos | sarcomatoid | surgery | No | 9 | + |
| NYU-851 | female | 58 | caucasian | asbestos | epithelioid | surgery | Yes | 60 | - |
| NYU-866 | male | 70 | caucasian | asbestos | biphasic | surgery | No | 15 | - |
| NYU-929 | female | 41 | asian | none | biphasic | surgery | No | 149 | + |
| NYU-937 | male | 82 | caucasian | asbestos | epithelioid | chemotherapy | No | 13 | - |
| NYU-966 | female | 61 | caucasian | unknown | epithelioid | surgery | No | 31 | - |
| NYU-1017 | male | 41 | asian  | asbestos | epithelioid | surgery | No | 31 | + |
| NYU-1024 | male | 66 | caucasian | asbestos | biphasic | surgery | No | 20 | - |
| NYU-1250 | female | 64 | caucasian | none | epithelioid | surgery | Yes | 33 | - |
| NYU-1306 | female | 73 | caucasian | asbestos | epithelioid | surgery | No | 16 | - |
| NYU-1359 | female | 58 | caucasian | none | epithelioid | chemotherapy | No | 9 | + |
| NYU-1419 | female | 20 | caucasian | none | epithelioid | surgery | Yes | 75 | - |

aBased on patient’s recollection, not verified by lung content analyses or other objective clinical measure, such as presence of lung fibrosis with asbestos bodies, etc.

Supplemental Table 1B: NMVB cohort demographics, clinical features and nuclear BAP1 stain.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ID | Gender | Age at Diagnosis | Ethnicity | Harmful Exposure Substancea | Specimen Histologic Type | Therapy Type | Death | Survival(months) | Nuclear BAP1 Stain |
| 1 | male | 53 | caucasian | unknown |  epithelioid | surgery | No | 80 | + |
| 2 | female | 31 | caucasian | asbestos |  epithelioid | surgery | Yes | 106 | + |
| 3 | male | 64 | caucasian | asbestos |  epithelioid | chemotherapy | No | 16 | + |
| 4 | male | 64 | caucasian | unknown | biphasic | surgery | No | 4 | + |
| 5 | male | 68 | caucasian | asbestos | biphasic | talc pleurodesis | No | 18 | - |
| 6 | female | 81 | caucasian | unknown | sarcomatoid | unknown | No | 1 | + |
| 7 | male | 59 | caucasian | unknown |  epithelioid | surgery | No | 77 | - |
| 8 | male | 85 | caucasian | asbestos |  epithelioid | talc pleurodesis | No | 9 | + |
| 9 | male | 81 | caucasian | asbestos | biphasic | unknown | No | 2 | - |
| 10 | male | 73 | caucasian | asbestos |  epithelioid | surgery | No | 10 | - |
| 11 | male | 72 | caucasian | asbestos |  epithelioid | chemotherapy | No | 21 | - |
| 12 | male | 76 | caucasian | asbestos |  epithelioid | surgery | No | 7 | - |
| 13 | male | 61 | caucasian | asbestos |  epithelioid | surgery | No | 52 | - |
| 14 | male | 67 | caucasian | asbestos | epithelioid | surgery | No | 45 | - |
| 15 | male | 63 | filipino | unknown | biphasic | surgery | No | 1 | mixedb |
| 16 | male | 71 | unknown | unknown | sarcomatoid | unknown | No | 4 | mixed |
| 17 | male | 80 | black | asbestos |  epithelioid | unknown | No | 50 | - |
| 18 | male | 70 | caucasian | asbestos |  epithelioid | radiation therapy | Yes | 145 | + |
| 19 | male | 67 | caucasian | asbestos |  epithelioid | unknown | No | 3 | - |
| 20 | male | 36 | caucasian | asbestos | epithelioid | surgery | Yes | 11 | - |
| 21 | male | 78 | caucasian | asbestos | sarcomatoid | surgery | No | 3 | mixed |
| 22 | male | 65 | caucasian | asbestos |  epithelioid | chemotherapy | No | 7 | - |
| 23 | male | 77 | caucasian | asbestos |  epithelioid | unknown | No | 6 | - |
| 24 | male | 76 | caucasian | none | epithelioid | chemotherapy | No | 9 | mixed |
| 25 | male | 84 | caucasian | none | biphasic | talc pleurodesis | No | 2 | + |
| 26 | male | 74 | caucasian | unknown | sarcomatoid | unknown | No | 1 | - |
| 27 | male | 42 | unknown | unknown | biphasic | unknown | No | unknown | - |
| 28 | male | 70 | caucasian | metal work | sarcomatoid | radiation therapy | No | 5 | - |
| 29 | male | 60 | caucasian | asbestos | epithelioid | surgery | No | 18 | - |
| 30 | male | 61 | caucasian | rubber |  epithelioid | surgery | No | 20 | - |
| 31 | male | 67 | caucasian | asbestos |  epithelioid | surgery | No | 49 | - |
| 32 | male | 63 | caucasian | asbestos |  epithelioid | surgery | No | 4 | - |
| 33 | male | 68 | caucasian | painting |  epithelioid | surgery | No | 18 | + |
| 34 | female | 66 | caucasian | asbestos |  epithelioid | surgery | No | 5 | + |
| 35 | male | 75 | caucasian | none |  epithelioid | surgery | No | 8 | - |
| 36 | male | 77 | caucasian | painting |  epithelioid | chemotherapy | No | 7 | - |
| 37 | male | 32 | other asian | other |  epithelioid | surgery | No | 28 | mixed |
| 38 | male | 81 | caucasian | chemical solvents | sarcomatoid | talc pleurodesis | No | 6 | - |
| 39 | male | 67 | caucasian | asbestos |  epithelioid | chemotherapy | No | 18 | - |
| 40 | male | 69 | caucasian | asbestos | biphasic | chemotherapy | No | 3 | mixed |
| 41 | female | 51 | caucasian | unknown |  epithelioid | chemotherapy | No | 70 | - |
| 42 | male | 71 | caucasian | asbestos |  epithelioid | chemotherapy | No | 22 | - |
| 43 | female | 34 | black | unknown |  epithelioid | chemotherapy | Yes | 20 | + |
| 44 | female | 23 | caucasian | none | multicystic | surgery | Yes | unknown | + |
| 45 | male | 64 | caucasian | asbestos |  epithelioid | surgery | No | 21 | - |
| 46 | male | 42 | caucasian | asbestos |  epithelioid | surgery | Yes | 21 | - |
| 47 | female | 56 | caucasian | printing |  epithelioid | talc pleurodesis | No | 2 | - |
| 48 | female | 46 | caucasian | unknown | biphasic | chemotherapy | Yes | 28 | + |
| 49 | male | 59 | black | unknown |  epithelioid | surgery | No | 21 | - |
| 50 | male | 55 | caucasian | unknown |  epithelioid | surgery | Yes | 40 | - |
| 51 | male | 65 | caucasian | asbestos |  epithelioid | surgery | Yes | 28 | - |
| 52 | male | 73 | caucasian | asbestos | biphasic | surgery | No | 9 | + |
| 53 | male | 43 | caucasian | unknown |  epithelioid | chemotherapy | No | 7 | + |
| 54 | female | 55 | caucasian | unknown |  epithelioid | radiation therapy | Yes | 68 | - |
| 55 | female | 68 | caucasian | asbestos |  epithelioid | chemotherapy | No | 12 | - |
| 56 | female | 61 | caucasian | none |  epithelioid | chemotherapy | Yes | 17 | - |
| 57 | male | 50 | caucasian | unknown |  epithelioid | unknown | No | 2 | - |
| 58 | female | 68 | caucasian | unknown | biphasic | talc pleurodesis | No | 1 | - |
| 59 | male | 78 | caucasian | unknown |  epithelioid | unknown | No | 6 | - |
| 60 | male | 73 | caucasian | asbestos | biphasic | chemotherapy | No | 20 | - |
| 61 | male | 73 | caucasian | asbestos |  epithelioid | talc pleurodesis | No | 1 | + |
| 62 | female | 50 | caucasian | none |  epithelioid | chemotherapy | Yes | 122 | - |
| 63 | male | 21 | caucasian | metal work |  epithelioid | unknown | Yes | 12 | - |
| 64 | female | 67 | caucasian | asbestos | biphasic | chemotherapy | Yes | 8 | - |
| 65 | female | 37 | caucasian | unknown | biphasic | surgery | Yes | 48 | - |
| 66 | male | 70 | caucasian | unknown | sarcomatoid | chemotherapy | Yes | 11 | + |
| 67 | male | 60 | caucasian | unknown |  epithelioid | chemotherapy | Yes | 10 | - |
| 68 | female | 55 | caucasian | none |  epithelioid | chemotherapy | Yes | 11 | - |
| 69 | male | 64 | caucasian | asbestos |  epithelioid | surgery | No | unknown | - |
| 70 | male | 46 | caucasian | chemical solvents |  epithelioid | chemotherapy | Yes | 4 | - |

aBased on patient’s recollection, not verified by lung content analyses or other objective clinical measure, such as presence of lung fibrosis with asbestos bodies, etc.

bMixed: cases containing both nuclear BAP1 expressing and non-expressing tumor cells.