

Table S1: Patient data.

|    | <b>Age</b> | <b>Sex</b> | <b>Group</b>        | <b>Cause of death</b>        | <b>Predisposing factors</b>                                                |
|----|------------|------------|---------------------|------------------------------|----------------------------------------------------------------------------|
| 1  | 43         | f          | CPM<br>Early        | Pneumonia                    | History of alcohol abuse,<br>hepatic steatosis                             |
| 2  | 41         | m          | CPM<br>Early        | Pneumonia                    | History of alcohol abuse                                                   |
| 3  | 58         | m          | CPM<br>Early        | Cardiovascular failure       | History of alcohol abuse,<br>hepatic steatosis, pancreatitis               |
| 4  | 57         | m          | CPM<br>Early        | Multiple organ failure       | HIV infection,<br>liver transplantation                                    |
| 5  | 32         | f          | CPM<br>Early        | Respiratory<br>insufficiency | History of alcohol abuse,<br>hepatic steatosis,<br>Guillain Barré syndrome |
| 6  | 46         | m          | CPM<br>Intermediate | n.a.                         | History of alcohol abuse,<br>liver fibrosis,<br>hepatic encephalopathy     |
| 7  | 50         | m          | CPM<br>Intermediate | Cardiovascular failure       | No                                                                         |
| 8  | 24         | m          | CPM<br>Intermediate | Multiple organ failure       | HIV infection,<br>hepatomegaly                                             |
| 9  | 47         | m          | CPM<br>Intermediate | Respiratory<br>insufficiency | History of alcohol abuse,<br>hepatic steatosis,                            |
| 10 | 52         | m          | CPM<br>Intermediate | Multiple organ failure       | History of alcohol abuse                                                   |
| 11 | 40         | f          | CPM<br>Late         | Cardiovascular failure       | History of alcohol abuse,<br>frontotemporal dementia                       |
| 12 | 63         | m          | CPM<br>Late         | Cardiovascular failure       | History of alcohol abuse,<br>history of cortical infarct                   |
| 13 | 46         | f          | CPM<br>Late         | n.a.                         | History of alcohol abuse,<br>liver fibrosis                                |
| 14 | 36         | f          | CPM<br>Late         | Cardiovascular failure       | History of alcohol abuse,<br>liver fibrosis,<br>hepatic encephalopathy     |
| 15 | 50         | m          | CPM<br>Late         | Pneumonia                    | History of alcohol abuse,<br>liver fibrosis                                |
| 16 | 80         | m          | CPM<br>Late         | Cardiovascular failure       | History of alcohol abuse,<br>liver fibrosis,<br>chronic pancreatitis       |
| 17 | 15         | m          | CPM<br>Late         | Liver failure                | Hepatitis B infection,<br>liver transplantation                            |
| 18 | 72         | f          | CPM<br>Late         | Cardiovascular failure       | History of alcohol abuse,<br>polyneuropathy,                               |

|    |      |   |         |                             |               |
|----|------|---|---------|-----------------------------|---------------|
|    |      |   |         |                             | optic atrophy |
| 19 | 58   | m | Control | Cardiac arrest              | -             |
| 20 | 60   | m | Control | Sepsis, multi organ failure | -             |
| 21 | 90   | f | Control | Heart failure               | -             |
| 22 | 57   | f | Control | Sepsis                      | -             |
| 23 | 39   | f | Control | Pulmonary embolism          | -             |
| 24 | 65   | m | Control | Trauma                      | -             |
| 25 | 38   | f | Control | Breast carcinoma            | -             |
| 26 | 62   | m | Control | Suicide                     | -             |
| 27 | GW34 | m | Control | Pulmonary hypoplasia        | -             |

f: female, m: male, n.a: not available, GW: gestational week

Table S2: Criteria for staging of human CPM lesions

|              | <b>Astrocytes (GFAP, AQP4)</b>                                   | <b>Phagocytes (KiM1P)</b>                                 | <b>Myelin (LFB)</b>          |
|--------------|------------------------------------------------------------------|-----------------------------------------------------------|------------------------------|
| Early        | Reduced density<br>Often bipolar<br>Mostly AQP4 negative         | High density<br>Foamy                                     | Disrupted                    |
| Intermediate | Normal/increased density<br>Few bipolars<br>Mostly AQP4 negative | Moderate densities<br>Partially foamy, partially amoeboid | Absent                       |
| Late         | Normal density<br>Reactive morphology<br>AQP4 positive           | Moderate density<br>Inactive/ramified morphology          | Pale, remyelinated or absent |