

Supplementary Table S1. Histopathological features of 28 CCA and 6 matched adjacent normal samples

| CCA | Matched adjacent normal | Gross type | Histological type | Age (year) | Sex | Overall survival (week) | Status |
|-------|-------------------------|--------------|---------------------|------------|--------|-------------------------|--------|
| N082T | N082N | Mass Forming | Well differentiated | 43 | Female | 12.29 | Died |
| P055T | | Mass Forming | Well differentiated | 64 | Male | 7.86 | Died |
| P060T | | Mass Forming | Well differentiated | 64 | Female | 201.00 | Died |
| P092T | | Mass Forming | Well differentiated | 55 | Male | 10.43 | Died |
| P126T | | Mass Forming | Well differentiated | 51 | Male | 163.71 | Died |
| Q045T | | Mass Forming | Less differentiated | 58 | Male | 30.14 | Died |
| R023T | | Mass Forming | Well differentiated | 51 | Male | 48.86 | Died |
| R052T | R052N | Mass Forming | Well differentiated | 56 | Female | 125.57 | Died |
| R086T | | Mass Forming | Well differentiated | 68 | Male | 40.14 | Died |
| R103T | | Mass Forming | Well differentiated | 39 | Male | 6.00 | Died |
| R106T | | Mass Forming | Well differentiated | 48 | Female | 15.00 | Died |
| T005T | | Mass Forming | Well differentiated | 63 | Male | 73.57 | Died |
| T049T | | Mass Forming | Well differentiated | 67 | Female | 71.00 | Died |
| T064T | | Mass Forming | Well differentiated | 66 | Male | 8.43 | Died |
| T098T | | Mass Forming | Well differentiated | 76 | Male | 12.86 | Died |
| U005T | | Mass Forming | Well differentiated | 54 | Male | 44.14 | Died |
| U021T | | Mass Forming | Well differentiated | 66 | Male | 97.00 | Died |
| U030T | | Mass Forming | Well differentiated | 49 | Male | 14.14 | Died |
| U044T | | Mass Forming | Well differentiated | 53 | Male | 6.43 | Died |
| U059T | | Mass Forming | Well differentiated | 59 | Male | 8.57 | Died |
| U064T | U064N | Mass Forming | Well differentiated | 56 | Female | 15.00 | Died |
| U090T | | Mass Forming | Well differentiated | 71 | Female | 62.14 | Died |
| U095T | | Mass Forming | Well differentiated | 62 | Female | 5.00 | Died |
| W022T | W022N | Mass Forming | Well differentiated | 65 | Male | 21.71 | Died |
| W025T | | Mass Forming | Well differentiated | 48 | Female | 69.71 | Died |
| W027T | W027N | Mass Forming | Well differentiated | 54 | Female | 48.86 | Died |

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|-------|-------|--------------|---------------------|----|------|-------|------|
| W111T | W111N | Mass Forming | Well differentiated | 56 | Male | 42.43 | Died |
| W147T | | Mass Forming | Well differentiated | 55 | Male | 58.29 | Died |
