

Supplemental Table 2. Mutation positive HNP Cases without „first-step“ predictors

| ID | Age at diagnosis | Tumor manifestation | Treatment | Follow up | Other tumors | Family history | Mutation |
|----|------------------|--|--------------------------------|--|--------------|---|-----------------------------|
| 1 | 43 | unhomogenous, not clear delineable glomus aorto-jugulo-tympanicum; infiltration of the os sphenoidale, foramen jugularis, canalis nervi hypoglossi; encasement of the left carotis interna | inoperable Tumor; radiotherapy | stable disease | - | unspecified gastro-intestinal tumor, lymphoma | SDHB c. 736 A>T |
| 2 | 43 | glomus caroticum | surgery | no signs of recurrence 5 years after treatment | - | - | SDHB c. 287-2 A>G |
| 3 | 43 | glomus caroticum, 7x6cm size | surgery | recently treated | - | - | SDHB c. 724 C>A |
| 4 | 46 | glomus jugulare with Intracranial growth | surgery | after 5 years recurrence treated with radiotherapy | - | - | SDHD c. 230T>G |
| 5 | 47 | glomus jugulare | surgery | no signs of recurrence 2 years after treatment | - | - | SDHB c. 589C>T |
| 6 | 49 | glomus caroticum | surgery | recurrence 3 years after treatment | - | - | SDHC c.43 C>T |
| 7 | 50 | glomus tympanicum | surgery | no signs of recurrence 2 years after treatment | - | - | SDHD c. 367G>A |
| 8 | 54 | glomus caroticum | surgery | recently treated | - | - | SDHB c. 725G>A |
| 9 | 58 | glomus vagale | surgery | recurrence 14 years after treatment | - | - | SDHC c. 218 ins A |

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|----|------------------|--|-----------|--|----------------------------------|----------------|--------------------------------|
| 10 | 60 | glomus tympanicum | surgery | no signs of recurrence 3 years after treatment | recurrent neurilemmoma at age 26 | - | SDHC c. 214 C>T |
| 11 | 61 | glomus jugulare | surgery | recently treated | - | - | SDHB c. 166_170delCCTCA |
| 12 | 63 | glomus caroticum | unknown | no data | - | - | SDHC c. 23 ins A |
| 13 | 67 | glomus caroticum (rapidly progressing) | surgery | no data | - | - | SDHB Deletion |
| 14 | 69 | glomus caroticum (rapidly progressing) | surgery | recently treated | - | - | SDHB c. 649 C>T |
| 15 | 72 | glomus caroticum | surgery | recently treated | - | - | SDHD c. 341 A>G |