

| Sample | Region | Gender | Age | H.type | Stage | PCR.urease | CAGA | EBV | GMB | Age2 | EBV_Urease | EBV_CAGA |
|--------|--------|--------|-----|------------|-------|------------|----------|----------|-----|-----------|------------|----------|
| CA130 | cardia | male | 36 | intestinal | IV | positive | positive | negative | 63 | 30<Age<40 | positive | positive |
| CA133 | body | male | 31 | diffuse | IV | positive | positive | negative | 104 | 30<Age<40 | positive | positive |
| CA134 | cardia | male | 38 | diffuse | IV | positive | positive | negative | 84 | 30<Age<40 | positive | positive |
| CA14 | NA | male | 36 | diffuse | III | NA | NA | NA | 55 | 30<Age<40 | NA | NA |
| CA142 | antrum | male | 28 | diffuse | IB | positive | positive | negative | 90 | 30- | positive | positive |
| CA149 | cardia | male | 35 | intestinal | IIIB | positive | negative | negative | 69 | 30<Age<40 | positive | negative |
| CA151 | body | male | 34 | diffuse | IIIA | positive | positive | negative | 42 | 30<Age<40 | positive | positive |
| CA154 | fundus | male | 42 | intestinal | IV | negative | negative | negative | 82 | 40+ | negative | negative |
| CA173 | body | female | 45 | intestinal | IV | positive | positive | positive | 79 | 40+ | positive | positive |
| CA175 | antrum | male | 47 | intestinal | IIIB | positive | positive | negative | 82 | 40+ | positive | positive |
| CA195 | antrum | male | 47 | intestinal | IIIA | positive | positive | positive | 63 | 40+ | positive | positive |
| CA208 | antrum | female | 49 | intestinal | IV | positive | positive | negative | 179 | 40+ | positive | positive |
| CA211 | cardia | female | 34 | diffuse | IV | positive | negative | negative | 52 | 30<Age<40 | positive | negative |
| CA212 | antrum | male | 39 | diffuse | IIA | positive | positive | positive | 92 | 30<Age<40 | positive | positive |
| CA213 | body | female | 39 | intestinal | IV | positive | positive | negative | 68 | 30<Age<40 | positive | positive |
| CA218 | antrum | female | 48 | diffuse | IV | negative | negative | negative | 135 | 40+ | negative | negative |
| CA224 | antrum | male | 46 | diffuse | IB | positive | positive | negative | 75 | 40+ | positive | positive |
| CA232 | cardia | male | 35 | intestinal | IIA | positive | negative | negative | 97 | 30<Age<40 | positive | negative |
| CA274 | antrum | male | 42 | diffuse | IIIB | positive | positive | negative | 44 | 40+ | positive | positive |
| CA292 | cardia | male | 50 | diffuse | IV | negative | negative | negative | 50 | 40+ | negative | negative |
| CA302 | antrum | female | 33 | diffuse | IV | positive | positive | negative | 55 | 30<Age<40 | positive | positive |
| CA304 | body | male | 34 | diffuse | IIIA | positive | positive | negative | 63 | 30<Age<40 | positive | positive |
| CA362 | cardia | female | 47 | diffuse | IIIA | positive | positive | negative | 70 | 40+ | positive | positive |
| CA394 | cardia | male | 47 | diffuse | IV | negative | negative | negative | 69 | 40+ | negative | negative |
| CA404 | body | male | 41 | diffuse | IIIA | positive | positive | negative | 68 | 40+ | positive | positive |
| CA408 | cardia | female | 48 | diffuse | IIIB | positive | positive | negative | 87 | 40+ | positive | positive |
| CA411 | fundus | male | 49 | diffuse | IV | positive | positive | negative | 38 | 40+ | positive | positive |
| CA418 | cardia | male | 34 | diffuse | IIIA | positive | negative | negative | 68 | 30<Age<40 | positive | negative |
| CA419 | body | male | 46 | diffuse | IIIA | negative | negative | negative | 53 | 40+ | negative | negative |
| CA425 | fundus | female | 49 | diffuse | IV | positive | negative | negative | 69 | 40+ | positive | negative |
| CA427 | cardia | male | 48 | diffuse | IV | positive | positive | negative | 105 | 40+ | positive | positive |
| CA429 | antrum | male | 35 | diffuse | IIIA | positive | positive | negative | 96 | 30<Age<40 | positive | positive |
| CA430 | antrum | male | 46 | diffuse | IIIA | positive | positive | positive | 50 | 40+ | positive | positive |
| CA439 | antrum | female | 27 | diffuse | IIA | negative | negative | negative | 103 | 30- | negative | negative |
| CA440 | antrum | female | 28 | diffuse | IV | negative | negative | negative | 88 | 30- | negative | negative |
| CA441 | antrum | male | 28 | diffuse | IA | negative | negative | negative | 53 | 30- | negative | negative |
| CA442 | antrum | female | 29 | diffuse | IV | negative | negative | negative | 99 | 30- | negative | negative |
| CA443 | antrum | female | 29 | diffuse | IIIC | negative | negative | negative | 48 | 30- | negative | negative |
| CA444 | antrum | female | 30 | diffuse | IIA | positive | positive | negative | 104 | 30- | positive | positive |
| CA445 | fundus | male | 30 | intestinal | IIIC | negative | negative | negative | 48 | 30- | negative | negative |
| CA446 | antrum | male | 30 | intestinal | IIB | positive | positive | positive | 90 | 30- | positive | positive |
| CA447 | antrum | female | 31 | diffuse | IV | positive | positive | negative | 94 | 30<Age<40 | positive | positive |
| CA448 | antrum | female | 31 | diffuse | IV | positive | negative | negative | 32 | 30<Age<40 | positive | negative |
| CA449 | antrum | female | 32 | diffuse | IIA | negative | negative | negative | 92 | 30<Age<40 | negative | negative |
| CA450 | antrum | male | 32 | intestinal | IV | negative | negative | negative | 91 | 30<Age<40 | negative | negative |
| CA451 | fundus | female | 32 | diffuse | IIA | positive | positive | negative | 68 | 30<Age<40 | positive | positive |
| CA452 | antrum | male | 33 | intestinal | IV | positive | positive | negative | 89 | 30<Age<40 | positive | positive |
| CA455 | fundus | female | 34 | diffuse | IV | positive | positive | negative | 48 | 30<Age<40 | positive | positive |

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|-------|--------|--------|----|------------|------|----------|----------|----------|-----|-----------|----------|----------|
| CA456 | antrum | female | 35 | diffuse | IV | positive | positive | negative | 87 | 30<Age<40 | positive | positive |
| CA457 | antrum | female | 36 | diffuse | IIA | negative | negative | negative | 42 | 30<Age<40 | negative | negative |
| CA458 | fundus | male | 37 | intestinal | IV | negative | negative | negative | 103 | 30<Age<40 | negative | negative |
| CA459 | fundus | male | 37 | intestinal | IV | negative | negative | positive | 48 | 30<Age<40 | positive | positive |
| CA460 | cardia | female | 38 | diffuse | IIA | positive | positive | negative | 68 | 30<Age<40 | positive | positive |
| CA462 | antrum | female | 39 | intestinal | IIIA | positive | negative | negative | 94 | 30<Age<40 | positive | negative |
| CA463 | cardia | male | 40 | intestinal | IIIC | positive | positive | negative | 68 | 40+ | positive | positive |
| CA464 | antrum | female | 40 | intestinal | IIA | negative | negative | negative | 85 | 40+ | negative | negative |
| CA465 | antrum | male | 40 | intestinal | IV | positive | positive | negative | 16 | 40+ | positive | positive |
| CA466 | antrum | female | 41 | intestinal | IV | negative | negative | positive | 76 | 40+ | positive | positive |
| CA467 | fundus | female | 41 | diffuse | IIIB | negative | negative | negative | 82 | 40+ | negative | negative |
| CA468 | antrum | female | 42 | diffuse | IV | positive | positive | negative | 84 | 40+ | positive | positive |
| CA469 | fundus | female | 42 | diffuse | IV | positive | positive | negative | 59 | 40+ | positive | positive |
| CA470 | cardia | male | 43 | intestinal | IV | positive | negative | negative | 81 | 40+ | positive | negative |
| CA471 | fundus | female | 43 | intestinal | IIB | negative | negative | negative | 82 | 40+ | negative | negative |
| CA472 | fundus | female | 44 | intestinal | IIIC | negative | negative | positive | 117 | 40+ | positive | positive |
| CA474 | cardia | male | 44 | intestinal | IIB | positive | positive | negative | 59 | 40+ | positive | positive |
| CA475 | cardia | male | 45 | intestinal | IV | positive | negative | positive | 61 | 40+ | positive | positive |
| CA477 | antrum | female | 45 | intestinal | IV | negative | negative | negative | 62 | 40+ | negative | negative |
| CA479 | antrum | female | 46 | diffuse | IIA | positive | negative | negative | 66 | 40+ | positive | negative |
| CA480 | fundus | female | 46 | intestinal | IIA | positive | positive | negative | 90 | 40+ | positive | positive |
| CA481 | fundus | female | 46 | intestinal | IIA | positive | positive | negative | 109 | 40+ | positive | positive |
| CA482 | cardia | female | 47 | intestinal | IIA | positive | positive | negative | 96 | 40+ | positive | positive |
| CA483 | fundus | female | 47 | intestinal | IV | negative | negative | negative | 74 | 40+ | negative | negative |
| CA485 | cardia | female | 49 | intestinal | IV | positive | negative | negative | 91 | 40+ | positive | negative |
| CA487 | antrum | female | 49 | intestinal | IV | positive | negative | negative | 79 | 40+ | positive | negative |
| CA489 | cardia | female | 32 | diffuse | IIIA | negative | negative | negative | 93 | 30<Age<40 | negative | negative |
| CA490 | fundus | female | 33 | diffuse | IIB | positive | negative | negative | 48 | 30<Age<40 | positive | negative |
| CA496 | antrum | female | 27 | diffuse | IB | positive | positive | negative | 66 | 30- | positive | positive |
| CA523 | fundo | female | 42 | diffuse | IIIA | negative | negative | negative | 52 | 40+ | negative | negative |
| CA524 | antrum | male | 41 | intestinal | IA | positive | positive | negative | 129 | 40+ | positive | positive |
| CA687 | Cardia | male | 37 | diffuse | IV | NA | NA | NA | 25 | 30<Age<40 | NA | NA |
| CA688 | Cardia | male | 35 | diffuse | IV | NA | NA | NA | 7 | 30<Age<40 | NA | NA |
| CA691 | fundus | female | 34 | diffuse | IV | NA | NA | NA | 69 | 30<Age<40 | NA | NA |
| CA693 | Cardia | male | 38 | diffuse | II | NA | NA | NA | 35 | 30<Age<40 | NA | NA |
| CA695 | antrum | female | 37 | diffuse | II | NA | NA | NA | 15 | 30<Age<40 | NA | NA |
| CA706 | Cardia | male | 31 | diffuse | II | NA | NA | NA | 7 | 30<Age<40 | NA | NA |
| CA711 | Cardia | male | 33 | diffuse | IIA | NA | NA | NA | 0 | 30<Age<40 | NA | NA |
| CA717 | body | female | 29 | diffuse | IV | NA | NA | NA | 1 | 30- | NA | NA |
| CA736 | body | male | 38 | diffuse | IV | NA | NA | NA | 35 | 30<Age<40 | NA | NA |
| CA741 | antrum | male | 35 | diffuse | IB | NA | NA | NA | 54 | 30<Age<40 | NA | NA |
| CA742 | antrum | male | 34 | diffuse | IV | NA | NA | NA | 54 | 30<Age<40 | NA | NA |
| CA743 | antrum | male | 33 | diffuse | IB | NA | NA | NA | 55 | 30<Age<40 | NA | NA |
| CA867 | body | female | 20 | diffuse | III | NA | NA | NA | 23 | 30- | NA | NA |
| CA940 | body | female | 25 | diffuse | IA | NA | NA | NA | 79 | 30- | NA | NA |
| CA946 | body | male | 38 | diffuse | IB | NA | NA | NA | 70 | 30<Age<40 | NA | NA |
| CA950 | body | female | 35 | diffuse | IA | NA | NA | NA | 23 | 30<Age<40 | NA | NA |

Supplementary Table 1. Clinical and pathological data of the patients.