|                               |             |           |                        |                | Weight  | Weight   |
|-------------------------------|-------------|-----------|------------------------|----------------|---------|----------|
| Study                         | TE          | seTE      | Н                      | 95%-CI         | (fixed) | (random) |
|                               |             |           | .1                     |                |         |          |
| BLCA                          | -0.00       | 0.0169    | 1.00                   | [0.97; 1.03]   | 8.4%    | 7.0%     |
| BRCA                          | -0.01       | 0.0198    | 0.99                   | [0.95; 1.03]   | 6.1%    | 6.3%     |
| CESC                          |             | 0.0287    | <del>- 3</del> 0.95    | [0.90; 1.00]   | 2.9%    | 4.4%     |
| CHOL                          | -0.00       | 0.0533    | 1.00                   | [0.90; 1.11]   | 0.8%    | 1.8%     |
| COAD                          | -0.04       | 0.0178    | 0.96                   | [0.93; 0.99]   | 7.6%    | 6.8%     |
| ESCA                          | -0.03       | 0.0325    | 0.97                   | [0.91; 1.03]   | 2.3%    | 3.8%     |
| GBM                           | -0.03       | 0.0206    | 0.97                   | [0.93; 1.01]   | 5.7%    | 6.1%     |
| HNSC                          | 0.01        | 0.0133    | 1.02                   | [0.99; 1.04]   | 13.7%   | 7.9%     |
| KICH                          | -0.06       | 0.1027    | 0.94                   | [0.77; 1.15]   | 0.2%    | 0.6%     |
| KIRC                          | -0.14       | 0.0279    | 0.87                   | [0.82; 0.91]   | 3.1%    | 4.5%     |
| KIRP                          | -0.12       | 0.0535    | 0.89                   | [0.80; 0.98]   | 0.8%    | 1.8%     |
| LIHC                          | -0.00       | 0.0151    | 1.00                   | [0.97; 1.03]   | 10.6%   | 7.5%     |
| LUAD                          | -0.03       | 0.0175    | 0.97                   | [0.94; 1.01]   | 7.9%    | 6.8%     |
| LUSC                          | -0.02       | 0.0164    | 0.98                   | [0.95; 1.01]   | 9.0%    | 7.1%     |
| PAAD                          | -0.04       | 0.0289    | 0.96                   | [0.91; 1.02]   | 2.9%    | 4.4%     |
| PCPG                          | -0.01       | 0.1309    | 0.99                   | [0.77; 1.29]   | 0.1%    | 0.4%     |
| PRAD                          | -0.12       | 0.0845    | 0.89                   | [0.75; 1.05]   | 0.3%    | 0.8%     |
| READ                          | 0.01        | 0.0421    | 1.0                    | [0.93; 1.10]   | 1.4%    | 2.7%     |
| SARC                          | -0.01       | 0.0226    | 0.99                   | [0.95; 1.04]   | 4.7%    | 5.6%     |
| STAD                          | 0.01        | 0.0211    | 1.0                    | [0.97; 1.05]   | 5.4%    | 6.0%     |
| THCA                          | -0.07       | 0.0554    | <del>- + 1</del> 0.93  | 8 [0.84; 1.04] | 0.8%    | 1.7%     |
| THYM                          | 0.16        | 0.1352    | <del>- ;  +</del> 1.18 | 8 [0.90; 1.53] | 0.1%    | 0.3%     |
| UCEC                          | 0.01        | 0.0219    | 1.01                   | [0.97; 1.05]   | 5.0%    | 5.8%     |
|                               |             |           | 1                      |                |         |          |
| Fixed effect model            |             |           | 0.98                   | 8 [0.97; 0.99] | 100.0%  |          |
| Overall effect                |             |           | 0.98                   | [0.96; 0.99]   |         | 100.0%   |
| Heterogeneity: I <sup>2</sup> | = 52% [23%; | 70%], p < | 01                     |                |         |          |
|                               |             | 0.        | 1 2                    |                |         |          |