|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Study** | **Treatment** | **From Treatment** | **From Diagnosis** | **As First-line Treatment** | **Downstage to Surgery** |
| Akinwande | SIRT | Survival curve unavailable |
| Beuzit\* | SIRT | Overlapping ticks cannot be mapped. Overlapping Sample Size with Manceau. |
| Edeline 2015\* | SIRT | Overlapping patient sample with Manceau. |
| Edeline 2019\* | SIRT | Overlapping ticks cannot be mapped. Overlapping Sample Size with Manceau. | Survival was calculated from the time of surgery |
| Manceau\* | SIRT | Yes | Yes | Yes | NS |
| Rayar\* | SIRT | Overlapping ticks cannot be mapped. Overlapping Sample Size with Manceau. | Survival was calculated from the time of surgery |
| Riby\* | SIRT | Overlapping ticks cannot be mapped. Overlapping Sample Size with Manceau. | Survival was calculated from the time of surgery |
| Buettner | SIRT | Censored data was not labeled. | Survival curve unavailable |
| Camacho\*\* | SIRT | Yes | Yes | None | NR |
| Rafi\*\* | SIRT | Overlapping patient sample with Camacho | NR |
| Xing\*\* | SIRT | Survival curve unavailable | NR |
| Filippi 2014\*\*\* | SIRT | Overlapping with Filippi 2020 | Yes | Yes | NR |
| Filippi 2019\*\*\* | SIRT | Overlapping with Filippi 2020 | NR |
| Filippi 2020\*\*\* | SIRT | Yes | NR | NR | NR |
| Mosconi 2016\*\*\*\* | SIRT | NR | NR | NR | NR |
| Mosconi 2020\*\*\*\* | SIRT | NR | NR | NR | NR |
| Gangi | SIRT | Yes | Yes | NR | NR |
| Haug\*\*\*\*\* | SIRT | NR | Overlapping patient sample with Hoffman | NR | NR |
| Hoffman\*\*\*\*\* | SIRT | Yes | NR | NR | NR |
| Ibrahim\*\*\*\*\*\* | SIRT | Overlapping with Mouli | NR | NR | Overlapping with Mouli |
| Mouli\*\*\*\*\*\* | SIRT | Yes | NR | NR | Yes |
| Jia | SIRT | Yes | Yes | NR | NR |
| Koehler | SIRT | Yes | NR | NR | NR |
| Levillain | SIRT | Yes | NR | NR | NR |
| Reimer | SIRT | Yes | Yes | Yes | NR |
| Saxena | SIRT | Censored data was not labeled. | Survival time unknown |
| Shanker | SIRT | Censored data was not labeled. | Survival time unknown |
| Soydal | SIRT | Yes | NR | NR | NR |
| White | SIRT | Yes | NR | NR | NR |
| Ben-Josef | Conventional Dose RT (photon) | Mixed with HCC |
| Chen\* | Conventional Dose RT (photon) | Yes | Yes | Yes | NR |
| Zeng\* | Conventional Dose RT (photon) | Overlapping patient sample with Chen | NR |
| Cho | Conventional Dose RT (photon) | Yes | Yes | Yes | Yes |
| Hijazi | SBRT (photon) | Yes | NR | NR | NR |
| Hong\*\* | Proton Therapy | Yes | NR | NR | NR |
| Smart\*\* | Hypofractionated RT (both photon and proton) | NR | Yes | NR | NR |
| Yoon\*\* | Mixed RT (both photon and proton) | Overlapping patient sample with Hong and Smart | NR |
| Tao\*\* | Ablative Dose RT (both photon and proton) | NR | Yes | NR | NR |
| Ibarra | SBRT | Yes | NR | NR | NR |
| Kasuya | Carbon-ion RT | Yes | NR | NR | NR |
| Kozak | SBRT | Censored data was not labeled. | NR |
| Kim | Conventional Dose RT(both photon and proton) | Yes | Yes | Yes | NR |
| Liu | SBRT (photon) | Mixed with extrahepatic iCCANRNR |
| Ohkawa\*\*\* | Proton Therapy | Overlapping patient sample with Shimizu | NR |
| Shimizu\*\*\* | Proton Therapy | Yes | Yes | Yes | NR |
| Shen | SBRT (photon) | Yes | NR | NR | NR |
| Sumiyoshi | Conventional Dose RT (photon) | Yes | Yes | Yes | Yes |
| Tse | Conventional Dose RT (photon) | Censored data was not labeled | NR |
| Weiner | SBRT (photon) | NR |

**Supplement Table 1**: Reasons of inclusion vs exclusion of per-patient survival analysis. NR: not reported. RT: radiation therapy. SBRT: stereotactic-body radiation therapy. SIRT: selective-internal radiation therapy.