**Supplementary Table 4. Novel combination and administration strategies in CAR and TCR therapies from 2016 to 2019**

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|  | **CAR** | **TCR** |
| *Combination with other medicines* | **Safety drugs** | Tocilizumab | NCT03467256, NCT04007029, NCT02906371 |  |
| Anakinra | NCT04205838, NCT04148430, NCT04150913 |
| Defibrotide  | NCT03954106 |
| **Efficacy drugs** | Checkpoint inhibitor | NCT02926833, NCT04003649, NCT04181827, NCT03287817, NCT03726515, NCT03630159, NCT04134325, NCT02706405, NCT03310619, NCT03704298, NCT03525782, NCT03628053 | Checkpoint inhibitor | NCT03168438, NCT03697824NCT03406858, NCT03709706NCT03070392, NCT02775292NCT04146298, NCT03907852NCT03747484 |
| Interleukin-2  | NCT02850536, NCT02830724, NCT03415100, NCT03098355, NCT03818165, NCT04119024 | Interleukin-2 | NCT03017131, NCT03197025NCT03240861, NCT03190941NCT03450122, NCT03412877NCT02858310, NCT02770820NCT02774291, NCT03691376NCT03506802, NCT03745326NCT03891706 |
| Ibrutinib | NCT03331198, NCT03960840 |  |
| Inhibitor of Gamma Secretase  | NCT03502577 |
| **Cells or virus** | Pulsed dendritic cells  | NCT03291444 | Pulsed dendritic cells  | NCT02775292 |
| T cell antigen presenting cells expanding CAR-T  | NCT03186118 | TIL Expressing TGFbDNRII  | NCT02650986 |
| Oncolytic virus  | NCT03740256 | Oncolytic virus  | NCT00704938 |
| *Administration* | **Regionally delivered** | Hepatic transarterial  | NCT03993743, NCT03818165, NCT04037241, NCT02850536, NCT03370198, NCT03349255, NCT02715362, NCT02706782 |  |
| Intracerebral | Intracavitary, intraventricular | NCT04185038, NCT03638167, NCT03500991 NCT04077866­­, NCT03696030 |
| Intratumoral | NCT03283631 |
| Intracranial | NCT04003649 |
| Intraperitoneal  | NCT03682744, NCT03585764, NCT03563326, NCT03608618, NCT03907527 | Intraperitoneal  | NCT03017131 |
| Intra-tumoral  | NCT02862704, NCT03130712, NCT03184753 | Intra-tumoral  | NCT03778814 |
|  | Combined CAR injection | NCT03497819, NCT03620058NCT03207178, NCT03549442NCT04194931 |  |
| **Intervention design** | Split dose | NCT02924753NCT03152435 |
|  |  | Sequential administration | NCT03407859 |