

## Supplementary contents 1

### Algorithms for integrating information from online databases

After we collected information from online databases, we compared these information and chose the information from the most “reliable” source of data. Here, we constructed Algorithms for integrating information. These algorithms were executed by Stata/MP 15.0.

#### 1) Date of death and date of birth

All of six sources of data included information on data of death and date of birth. If one of six sources included the information on the Olympian, we adopted the information included in the source of data. If two sources included information on the Olympian, we adopted information according to the order of priority; list of Olympians>Kikuzo=MAISAKU>Google>Wikipedia>SR. We regarded that list of Olympians had the highest priority, because this document was edited by Japan Olympic Committee. We regarded that SR had the lowest priority, because SR did not provide information on the final update date. If more than three sources included information on the Olympian and two of these information matched, we adopted the information.

#### 2) Latest follow-up date

Five out of six sources of data (SR/OLYMPIC SPORTS (SR), Kikuzo II Visual (Kikuzo), MAISAKU, Wikipedia, and Google) included information on latest follow-up date. If one of five sources included the information on the Olympian, we adopted the information included in the source of data. If more than two sources including SR included the information on the Olympian, we adopted the most recent follow-up date other than SR. If more than two sources of data other than SR included the information on the Olympian, we adopted the most recent follow-up date. We regarded that SR had the lowest priority, because SR did not provide information on the final update date, and we adopted the different criteria of latest follow-up date compared to other sources of data.