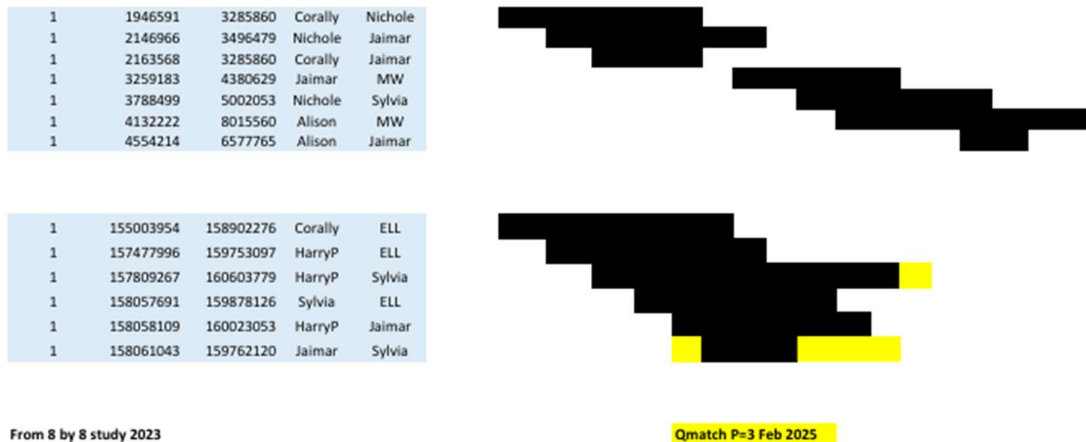


Why tests are needed to distinguish family from random multiples

Feb 2025

The diagram below shows 2 amazing multiples arising from the random sample in our 8 by 8 study of 2023. The 1st of them, a 7-match multiple, is revealed by the bar diagram to be little more than a strong triple.



However, the 2nd of them, a 6-match multiple, consists of 2 doubly-linked strong triples and looks very impressive. Checking with Qmatch 3cM with P=3 (that is, the same settings used to validate our Cr2, Cr8 and Cr21 Baruch Lousada indicators), makes little difference other than to add a common type of segment boundary coincidence (lower left of bar diagram).

The absence of our improbable segment boundary coincidence allows us to declare that the significance of this intriguing match is that it increases the threshold for genuine family multiples to overcome at the setting used (Qmatch 3cM P=3)!