

Appendix A: Patient linking rules used at the PHDC

No	Criteria strength	Match description
1	exact	Exact match on folder number, surname and date of birth
2	highly probable	Exact match on folder number, (year of birth and day of birth) or (month of birth and day of birth) and (year of birth and month of birth) and JW(surname) ≥ 0.85
3	highly probable	Exact match on SA ID, JW(surname) ≥ 0.85 and JW(date of birth) ≥ 0.95
4	probable	Exact match on folder number, firstnames, surname
5	highly possible	Exact match on folder number, surname, JW(firstnames) ≥ 0.85
6	probable	Exact match on folder number, JW(surname) ≥ 0.85 , JW(firstnames) ≥ 0.85
7	possible	Exact match on SA ID, surname, firstname
8	possible	Exact match on SA ID, surname, firstname (switched comparison of surname and firstnames)
9	highly probable	Exact match on SA ID, JW(surname) ≥ 0.85
10	highly probable	Exact match on SA ID, JW(firstnames) ≥ 0.85
11	probable	Exact match on SA ID, JW(date of birth) ≥ 0.95
12	exact	Exact match on folder number, fullname (firstnames + surname), date of birth
13	highly probable	Exact match on folder number, date of birth, JW(fullname (firstnames + surname)) ≥ 0.85
14	highly probable	Exact match on folder number, JW(date of birth) ≥ 0.85 , JW(fullname (firstnames + surname)) ≥ 0.85
15	highly probable	Exact match on folder number, fullname (firstnames + surname)
16	probable	Exact match on folder number, JW(fullname (firstnames + surname)) ≥ 0.85
17	probable	Exact match on folder number, fullname contains surname (wildcard command)
18	probable	Exact match on folder number, date of birth
19	probable	Exact match on folder number, surname
20	probable	Exact match on folder number, firstnames
21	low possible	Exact match on folder number, surname, SA ID (whether null or not null)
22	low possible	Exact match on folder number, surname (switched firstnames and surname), SA ID (if or not null)
23	low possible	Exact match on date of birth, surname, JW(firstnames) ≥ 0.85 , SA ID (if or not null)
24	probable	Exact match on SA ID (if not null), JW(surname) ≥ 0.85 , JW(firstnames) ≥ 0.85
25	low possible	Exact fullname = firstnames + surname
26	possible	Exact match on date of birth, firstnames, JW(surname) ≥ 0.85 , SA ID (if not null), JW(address) ≥ 0.95 (concatenate address fields from address line 1 to 4)
27	highly probable	Exact match on firstnames, surname, SA ID (if not null), (JW(date of birth) ≥ 0.95 OR (exact YOB and (exact MOB OR switched MOB/DOB)), JW(address) ≥ 0.95 (concatenate address fields from address line 1 to 4)
28	highly probable	Exact match on date of birth, firstnames, SA ID (if not null), JW(surname) ≥ 0.95
29	exact	Exact match on surname, firstnames, YOB, (SA ID = SA ID if not null), [JW(date of birth) ≥ 0.95 OR (exact MOB OR switched MOB/DOB)]
30	highly probable	Exact match on date of birth, surname, firstnames
31	highly possible	Exact match on date of birth, surname, JW(firstnames) ≥ 0.85
32	highly possible	Exact match on date of birth, firstnames, JW(surname) ≥ 0.85
33	highly possible	Exact match on surname, firstnames, [JW(date of birth) ≥ 0.95 OR (exact YOB, exact MOB OR switched MOB/DOB)]
34	highly possible	Exact match on surname, [JW(firstnames) ≥ 0.85 , [JW(date of birth) ≥ 0.95] OR exact YOB, (exact MOB OR switched MOB/DOB)]
35	highly possible	Exact match on firstnames, JW(surname) ≥ 0.85 , [JW(date of birth) ≥ 0.95] OR exact YOB, (SA ID = SA ID if not null), (exact MOB OR switched MOB/DOB)]
36	possible	Exact match on date of birth, surname, JW(firstnames) ≥ 0.85
37	possible	Exact match on fullname vs (firstnames + surname), exact date of birth
38	possible	Exact surname, firstnames, [JW(date of birth) ≥ 0.85 ,
39	possible	Exact Surname, JW(firstnames) ≥ 0.85 , JW(date of birth) ≥ 0.85 and (Exact YOB and [(Exact MOB) OR (Switched Exact DOB/MOB and Switched Exact MOB/DOB)])
40	possible	Exact firstnames, SA ID if not null and JW(surname) ≥ 0.85 and (JW(date of birth) ≥ 0.95 and (Exact YOB and [(Exact MOB) or (Exact switched DOB/MOB and Exact switched MOB/DOB)]))
41	probable	Exact date of birth, firstnames and JW(surname) ≥ 0.85 and SA ID = SA ID if not null and JW(address) ≥ 0.95
42	probable	Exact surname, firstnames, SA ID if not null, and JW(address) ≥ 0.85 and [JW(date of birth) ≥ 0.95 OR (Exact YOB and [(Exact MOB) OR (Exact switched DOB/MOB and exact switched MOB/DOB)])]
43	highly probable	Exact SA ID and switch on exact firstnames and surname and exact date of birth

Continued

Appendix A: Continued

No	Criteria strength	Match description
44	highly probable	Exact SA ID, JW(surname, firstnames) ≥ 0.85 , JW(firstnames, surname) ≥ 0.85
45	probable	Exact switch on firstnames and surname and exact date of birth
46	highly probable	Exact SA ID, surname, firstnames
47	probable	Exact firstnames, surname, date of birth match on different lines with the same folder number
48	manual	User notifies links

