## Supplemental Table 1: Algorithm to identify physician health card number

ing Step and iption	Number 1:1 matches	<ul> <li>Duplicates</li> <li>The same physician matches to &gt;1 HIN; or</li> <li>The same HIN matches to &gt;1 physician (duplicates may occur); or</li> <li>Both</li> </ul>
	N unique physicians	N unique physicians
act first name, middle name, last name, x, city	18,432	432
act first name, last name, sex, and city, t middle name is missing from 1 source	2,011	250
act first name, last name, sex, city, but st and last name are reversed and ddle name is either the same or missing m 1 source	23	7
act first name, middle name, last name, x, but ignoring city	7,388	3081
act first name, last name, sex, city, and st 3 digits of middle name or first 1 digit middle name if only the middle initial is pyided from either source	946	7
st 3 digits of first name, first 3 digits of st name, sex, city, and first 3 digits of ddle name or first 1 digit of middle me if only the middle initial is provided m either source	540	218
act first name and last name, sex, and st 3 digits of middle name or first 1 digit middle name if only the middle initial is byided from either source, and ignoring	467	168
act first name and last name EVERSED), sex, and first 3 digits of ddle name or first 1 digit of middle me if only the middle initial is provided m either source, and ignoring city	3	2
act first and middle name EVERSED), exact last name, sex, city	58	0
act first and middle name EVERSED), exact last name, and sex nore city)	37	12
o more attempted algorithms yielded curate matches	29,905 matched 1:1 (78.8%)	4,177 (11.0%) matched 1:n or n:n
nes (e.g. since the physician had multiple move those whose travel distance is >50 nly keep remaining 1:1 matches (1 physic atched to any other physician)	addresses in Co 0km ian matched to o	rporate Provider Database)
nes emo nly k atch	(e.g. since the physician had multiple ve those whose travel distance is >50 eep remaining 1:1 matches (1 physic ed to any other physician)	eep remaining 1:1 matches (1 physician matched to o