Practice History and Registration data from Primary Care Electronic Extraction: August 2023

From the initial manual extraction of data for Exceed we only had data on the practice a participant was currently registered with, which included data of registration.

Practice History Data

The new electronic extraction has data in the table SRGPPracticeHistory on the practice a participant was registered with, giving dates registration started and ended and the identifier of the GP they were registered with. Data is available on 8,349 participants listing 579 practices they have been registered with.

The number of entries of each participant ranges from 1 to 84, mean 4.1, depending on how many times their registration has changed.

Where participants have moved away from a local practice the National GP identifier code is given of the practice they moved to. This could be useful in updating primary care data of those who have moved away. It could also affect the option participants select when withdrawing.

The address of the practice can be found by typing code into the ODS portal. https://odsportal.digital.nhs.uk/Organisation/Search

This provides an additional handle on tracking participants other than by using the NHS spine.

The data contains some duplication as it records the data that each organisation can legitimately view in IDOrganisationVisibleTo. However, sorting the data by IDOrganisationVisibleTo and then DateFrom creates a clear view of the history as shown in the following table of one participant's data.

IDOrganisationVisibleTo	IDPractice	IDProfileRegisteredGP	DateFrom	DateTo
C82029	C82030	188250	06/07/2009 00:00	29/11/2011 22:36
C82029	C82030	916467	29/11/2011 22:36	25/06/2012 09:17
C82029	C82030	188250	25/06/2012 09:17	29/10/2018 19:33
C82029	C82030	916467	29/10/2018 19:33	05/11/2018 20:30
C82029	C82030	188250	05/11/2018 20:30	08/01/2019 19:18
C82029	C82030	916467	08/01/2019 19:18	04/03/2020 12:07
C82029	C82029	203549	04/03/2020 12:07	

C82030	C82030	188250	06/07/2009 00:00	29/11/2011 22:36
C82030	C82030	916467	29/11/2011 22:36	25/06/2012 09:17
C82030	C82030	188250	25/06/2012 09:17	29/10/2018 19:33
C82030	C82030	916467	29/10/2018 19:33	05/11/2018 20:30
C82030	C82030	188250	05/11/2018 20:30	08/01/2019 19:18
C82030	C82030	916467	08/01/2019 19:18	04/03/2020 12:07
C82030	C82029	203549	04/03/2020 12:07	

The patient was registered with practice C82030 from 06/07/2009 until 04/03/2020 when they moved to C82029. Both practices have legitimate right to view this data, which is what causes the duplication. During that time the participant's actual registered GP within that practice shifted around.

This data may be relevant in creating certain phenotypes that may be affected by registration changes eg those depending on participants continuing on certain medications. One might falsely conclude that a participant had stopped a drug when in fact they moved to a practice we are not extracting data from and so in fact we lost access to that data.

Date Ranges

We clearly have some participants who have been registered with the same practice for most of their lives.

Count of practice history records
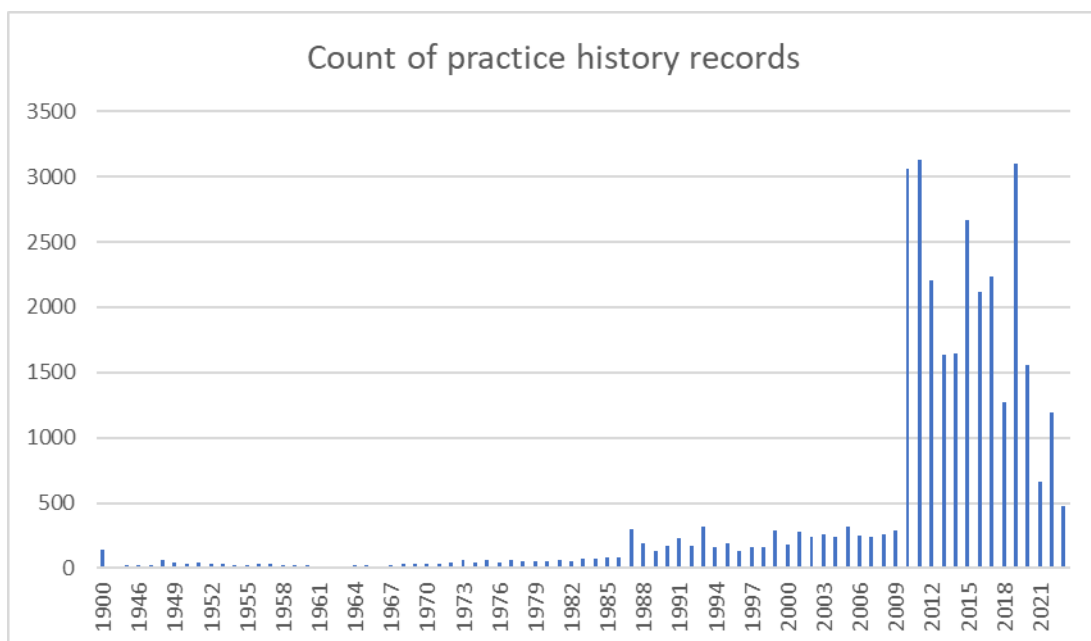
Patient Registration data

The table SRPatientRegistration table provides registration details for patients registered at the organisations included in the extract. There is some overlap with the above table. In addition, it contains information on the type of registration (General Medical Services, Private, Temporary residence etc) and the participant's preferred pharmacy.

Again, the IDOrganisationVisibleTo results in duplication which is also best resolved by sorting each participant by this field eg as follows

IDOrganisationVisibleTo	DateEventRecorded	DateRegistration	DateDeRegistration	IDOrganisation	IDOrganisationRegisteredAt
C82022	21/06/2010 19:11	23/08/2007 00:00	26/03/2012 00:00	C82031	C82022
C82022	26/03/2012 11:08	26/03/2012 00:00	31/08/2017 00:00	C82033	C82022
C82022	23/05/2022 18:06	31/08/2017 00:00		C82022	C82022
C82031	21/06/2010 19:11	23/08/2007 00:00	26/03/2012 00:00	C82031	C82031
C82033	26/03/2012 11:08	26/03/2012 00:00	31/08/2017 00:00	C82033	C82033

From this we can see that this participant was at C82031 from 2007-2012, C82033 from 2012-2017 and C82022 from 2017 until at least the date of data extraction.

DJS Sep 2023