

Vaccine Scenario Planner

Documentation

September 2020



Document tracker

Document name: Vaccine scenario planner documentation

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Change History

Issue	Sections	Change Description	Date
0.1	All	First version created	09/15/2020

Overview

Aim

This document sets out the methodology and assumptions used in the development of the Vaccine Planning Web App.

<https://vaccine-planner.carnallfarrar.software/>

The App is designed to support operational planning for Flu. The aim is to allow GP practices, PCNs, CCGs and STPS to quickly judge the scale of the vaccination challenge this year and adjust capacity as required.

Who is it for?

This tool answers two questions for an individual GP practice:

1. When am I likely to finish this year's flu vaccination programme?
2. What changes to capacity are required to bring this date forward?

This tool also answers questions for a group of practices:

1. How many practices have submitted a plan?
2. Which practices will experience bottle necks or capacity shortfalls?

Key contacts

This application and the associated excel models were created by Carnall Farrar in conjunction with the NHS London Information Cell.

If you have any questions on how to use the tool or have found an issue, please get in touch with one of the following people

Ian Nicholson: i.nicholson@nhs.net

Will Browne: will.browne@carnallfarrar.com

What can the user do?

The standard user is able to:

- Select an STP and practice
- Load a scenario from the database
- Define demand in terms of population, uptake and time per appointment
- Define capacity in terms of workforce and physical space
- View the expected vaccination per day and time to complete vaccinations
- Calculate the number of extra vaccinations per day to meet an earlier target

The super-user has access to the same functionality as a standard user in addition to:

- Viewing submitted plan outputs by practice
- Viewing which practices have submitted plans

Data inputs

Input data is stored in a secure AWS Postgres database and is comprised of the following datasets

- **Population data by practice:** ONS
- **Primary care workforce:** NHS Digital

How to use the application

To create a login please email will.browne@carnallfarrar.com with:

1. Name
2. Email address you wish to use
3. STPs associated with that account
4. Whether the user should have access to the admin page

The email address will then receive an email with password and log in information

To create a scenario and submit a plan:

1. On the left hand side, select STP and GP practice of interest. If you have previously submitted a plan, you are able to load this using the drop-down below
2. Select the '1. Define demand' tab, where the proposed eligible population
3. Define your workforce and estate capacity constraints using tabs 2 and 3.
4. On the right hand side, select the proposed start date to provide output to question 1. Fix the end date to give an output for question 2.
5. Text boxed are provided for you to add notes to the scenario before submission, or provide feedback on the application
6. Define a name to the scenario and click submit. Check the box below the submission button if you would like the scenario to be viewed as most likely

