PTHB Covid 19 Vaccination Delivery Plan
Phase 2
Version 1.0, 19 January 2021

# PTHB Covid 19 Vaccination Delivery Plan

### **Vaccination Strategy for Wales - Milestones**







**Vaccination Strategy for Wales** 

January 2021



- Milestone 1 by mid February cohorts 1 4.
   Subject to supply, our aim is to offer vaccination to all care home residents and staff; frontline health and social care staff; those 70 years of age and over; and clinically extremely vulnerable individuals.
- Milestone 2 by the Spring priority cohorts 5 – 9.

Subject to supply, which becomes more uncertain further into the future, our aim is to offer vaccination to all Phase 1 priority cohorts

(i.e. 50+s and clinically vulnerable/at risk).

Priority groups for coronavirus (COVID-19)
vaccination: advice from the JCVI,
30 December 2020 - GOV.UK (www.gov.uk)

It is estimated that taken together, these at risk groups represent around 99% of preventable mortality from Covid-19.

Milestone 3 – by the autumn

Our ambition is to offer vaccination to the rest of the eligible adult population according to the further JVCI guidance that will be produced on priorities. We do not yet know supply for this phase, so there is further planning to do on this milestone that will take account of supply and the further JVCI guidance.

The PTHB plan provides the detail of how we will achieve the national plan milestones for the Powys population.

It should be noted that the PTHB plan is subject to securing adequate vaccine supply which becomes more uncertain further into the future.

The PTHB plan has been developed on the basis of confirmed vaccine supply until 14 February 2021 and assumes no supply issues for the baseline model thereafter.

Additional discussions are required with Welsh Government to secure additional vaccine supply to achieve the surge 1 and 2 modelling scenarios which would speed up the roll out of the programme across Powys.

# PTHB Covid 19 Vaccination Delivery Plan

### **Programme Aims**

To deliver swift, safe and effective approved vaccines for COVID 19 to population in accordance with the Vaccination Strategy for Wales published 11 January 2021.

To deliver the vaccine to the whole population, beginning with Priority Groups 1-4 and then Priority Groups 5-9 (people over 50 years old and all adults with significant underlying health conditions) as recommended by the UK's independent Joint Committee for Vaccination and Immunisation.

To ensure that no one is left behind – accessibility, cross-border, non-registered and temporary populations and other factors that may affect the ability to access the vaccine.

The delivery programme is based on all patients registered with the 16 GP Practices in Powys.

		Total	% of vaccinatable population
P1.1	Older adult resident in a care home	932	1%
P1.2	Care home worker	1,527	1%
P2.1	All those 80 years of age and over	9,101	8%
P2.2	Health care workers	5,794	5%
P2.3	Social care workers	2,072	2%
P3	All those 75 years of age and over	7,352	6%
P4.1	All those 70 years of age and over	10,046	8%
P4.2	High risk adults under 70 years of age	3,087	3%
P5	All those 65 years of age and over	8,879	7%
P6	Moderate risk 16 years to under 65 years of age	TBC	0%
P7	All those 60 years of age and over	9,263	8%
P8	All those 55 years of age and over	9,770	8%
P9	All those 50 years of age and over	8,883	7%
P10	Rest of the population (over 16)	44,594	37%
	Total to vaccinate	121,300	100%
	Under 16	21,376	
	Total	142,676	

Workforce figures include non Powys residents

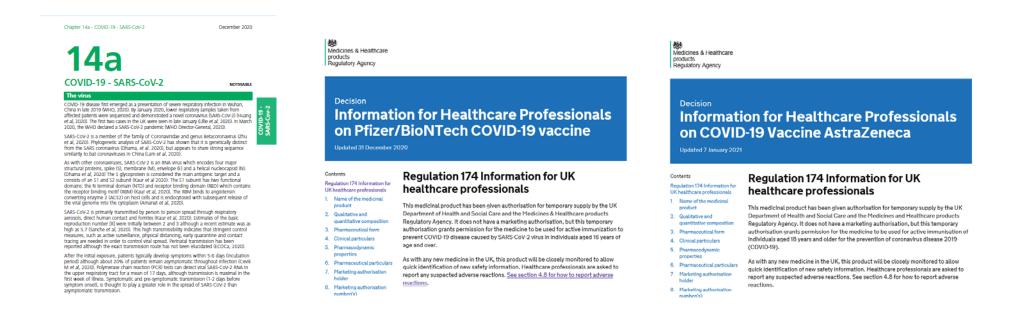
# PTHB Covid 19 Vaccination Delivery Plan

### **Vaccine Supply and Regulations**

The Pfizer BioNTech vaccine was launched on 8 December 2020. The logistical challenges of storage at very low temperatures and the need to use within 5 days when at a higher temperature together with the vaccine delivered in trays of 975 doses and trays cannot be split has resulted in the vaccine being deployed in the mass vaccination sites.

The Oxford AstraZeneca vaccine was launched on 4 January 2021. The vector vaccine can be stored at room temperature is mobile and comes in smaller pack s and we are now able to deliver to some of those groups that had been more difficult to reach with the Pfizer BioNTech vaccine. The Oxford AstraZeneca vaccine is being predominantly deployed through primary care, care homes and to the housebound.

Vaccine delivery and handling is managed in accordance with national / vaccine specific clinical guidance and directives.



# PTHB Covid 19 Vaccination Delivery Model

Priority Groups invited to attend for vaccination

Priority Groups defined by JCVI (Joint Committee on Vaccination and Immunisation)

Sequencing in line with the NHS Wales National Covid 19 Vaccination Programme

Patients invited to book in sequence by PTHB / Primary Care to ensure compliance with the Priority Groups/ National **Programme Directives** 

This model reflects the position as at 12 January 2021. The model will be revised and updated to take into account changes in national policy / direction.

## **Multi Channel Vaccination Delivery Model with Expansion Options**

#### **PTHB Mass Vaccination Centres**

#### North Powys - Newtown Maldwyn Leisure Centre

Mass Vaccination Site - Due to open on 18th January Baseline Capacity:

- 6 Lanes
- 50 Hours a week
- 12.5 Hours a day over four days
- Initial Capacity to deliver 1968 Vaccines per week/ 2040 appointments (with 5% booking contingency)
- Capacity to expand (see Slide 4)

#### Mid Powys - Royal Welsh Showground Builth Wells

Baseline Capacity:

- 3 Lanes
- 50 Hours a week
- 1020 appointments (with 5% booking contingency)
- Capacity to expand (see Slide 4)

- 3 Lanes
- 12.5 Hours a day over four days of operation
- Capacity to expand (see Slide 4)

#### **Primary Care**

**GP Practices** 

All 16 GP Practices in Powvs

Baseline capacity of c. 4000

**Community Pharmacy** 

will offer vaccination -

Powys geographies

vaccines a week

To be scoped

distribution across all of

# Care homes

PTHB providing vaccination into care home sites in the community for care home residents and staff

**Mobile provision** 

c. 980 vaccinations

#### People who are housebound

PTHB providing vaccination for highly complex caseload (those who are designated as housebound ) - at home

C. 700 people for JCVI Cohorts 1-4

#### Inpatients

PTHB providing vaccination for those people in priority groups 1 to 4 who are inpatients in PTHB community hospitals

c. 180 vaccinations

# Logistics

#### **Clinical Logistics**

- Vaccine Handling and Supply
- PGD and Written Instructions
- Medicines Management and Protocols

#### **Site Logistics**

- Site preparations and set up
- Site layout and flow/ experience
- Site/ Equipment maintainance and ongoing management

#### **Supply Logistics**

- PPE and consumables
- Stock management and delivery
- Transport

#### Administration

- Booking
- Patient records

Mass Vaccination Site - Opened 11th January

- 12.5 Hours a day over four days
- Initial Capacity to deliver 984 vaccines per week/

#### **South Powys - Bronllys PTHB Concert Hall**

Opened 8th December **Baseline Capacity:** 

- 50 Hours a week
- Initial capacity to deliver 984 vaccines per week / 2040 appointments (with 5% booking contingency)

# PTHB Covid 19 Vaccination - Geography and Sites

### Sites in North, Mid and South Powys to provide coverage in line with the population distribution

First Phase **Second Phase** Powys North Powys population c. 70,000 Newtown Park Street Site Newtown Maldwyn Leisure Centre - Operational December 2020, Mass Vaccination Site now closed Due to open on 18th January 6 Lanes 50 Hours a week 12.5 Hours a day over four days - Initial Capacity to deliver 1968 Mid Powys population Vaccines per week c. 25,000 - Capacity and plans to expand Royal Welsh Showground Builth Wells Mass Vaccination Site Due to open 11th January 3 Lanes • 50 Hours a week • 12.5 Hours a day over four days South Powys population • Initial Capacity to deliver 984 vaccines per week c. 50,000 · Capacity and plans to expand **Bronllys Concert Hall** • 3 Lanes 50 Hours a week • 12.5 Hours a day over four days of operation **Additional Primary Care Sites across** • Initial Capacity to deliver 984 vaccines per week at steady state baseline the County in line with Practice Capacity and plans to expand geographies going live from 25th January

# **PTHB Covid 19 Vaccination - Workforce**

# Workforce Plan

#### Recruitment and Skill Mix

Internal and External recruitment carried out; to date includes Clinical Lead, 3 x Band 6 Charge Nurses at the MVCs; 9.2 fixed term FTE immunisers; over 200 staff have applied for either Bank or expressed an interest in undertaking additional hours/overtime as Band 5 Immunisers. Commenced recruitment of Health Care Support Workers and potential suitability by clinical modelling workstream. Also appointing 2 Business Support Managers, 3 MVC admin officers.

### Redeployment

Internal Redeployment has commenced e.g. School Nursing staff as agreed at Gold

Further redeployment being scoped in line with the wider Local Options Framework to staff surge 1 and 2 scenarios.

### Military Support

PTHB has support of 6 Military colleagues who are deployed to the Mass Vaccination Centres to support operational delivery.

### Training and Competency

System in place for training and competency development and checks:

- Pre-employment checks to establish baseline competency and training / supervision requirements
- Shadow roster in place to provide training Experienced immunisers supervising and providing competency sign off
- Signed off staff entered into live rostering
- Skill mix and essential requirements on site scheduled into rosters including Life Support

### Volunteer Programme

Co-ordination of large scale volunteer programme in association with PAVO - 136 volunteers deployed to support meet and greet / parking and flow at sites.

### Staff engagement

Twice weekly meetings with staff side representatives and liaison with the Communications team to provide updates and ensure that staff are fully briefed on the programme and any opportunities or changes to roles and priorities.

FAQ produced to support technical communications on shift arrangements .

# End to End Workforce planning

Recruitment and Redeployment

Pre-employment checks

Competency assessment

Training and shadow rosters

Sign off and live rostering

Whole site rostering / skill mix

Workforce plan in line with agreed Strategic Model and Level of Delivery

Staffing rotas currently in place and being staffed for Baseline Level

The challenges of staffing the programme ongoing are tracked and recorded in Programme Risk Register and monitored at the Strategic Oversight Group, with escalation to Gold as required

# PTHB Covid 19 Vaccination - Booking and Administration

## Patient Booking and Records

### Hub/ Call Centre

PTHB has rapidly evolved the booking process based on a Hub and Call Centre approach.

### Helpline

A support helpline in recognition of the high volume of calls being received across the organisation with queries on vaccination and the need to separate those from the call handling capacity required for booking.

#### Patient Records and Consent

Patient recordkeeping including consent is managed using the WIS system for all components of the clinical delivery model, including PTHB sites, mobile provision and primary care.

Direct entry to the system is being used where possible and manual processes streamlined for mobile provision.

### **Booking**

Booking processes have been quickly established and developed further for Phase 2, working closely with NWIS.

A process is in place to ensure that the appointments are being made in line with the JCVI Priority Group cohorts and NHS Wales Vaccination Plan - this has been assimilated for the Powys population into the PTHB Strategic Model.

The booking flow and throughput is managed in line with the Strategic Model capacity thresholds and timeline.

#### No Waste Policy / DNAs/ CNAs

A No Waste Policy is in place which includes a 5% excess booking contingency rate and the use of reserve booking lists.

The initial rates of non attendance were

In a initial rates of non attendance were low in the frontline staffing stage however this has increased as the vaccination is rolled out to public phases and is being tracked so that mitigations can be continually developed.

### End to End Administration

Phased Offer to Priority Groups

Issuing of pre-appointment invitations

Call Centre Handling of Appointments

Implementation of No Waste Policy

Additional helpline for queries

Patient recordkeeping and consent using the WIS system

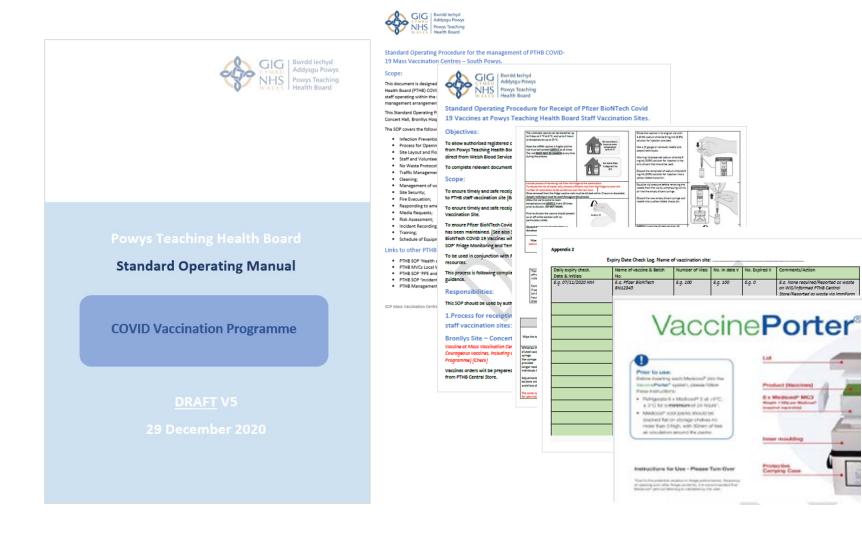
Booking in line with agreed Strategic Model and Level of Delivery

Staffing rotas for call handling and booking currently in place and being staffed for Baseline Level

The challenges of booking and call handling are tracked and recorded in Programme Risk Register and monitored at the Strategic Oversight Group, with escalation to Gold as required

# PTHB Covid 19 Vaccination - Operating Procedures

### Standard Operating Manual - 'End to End Whole Service Process'



All SOPs (standard operating procedures), clinical and logistical guidance, site management and supplies arrangements and associated forms are being developed and collated into one manual so that they can be accessed easily, in context and sequence.

SECTION THROUGH VACCINE BAY

Filiates.

# PTHB Covid 19 Vaccination – Engagement and Communication

### An integrated approach to engagement and communication on COVID-19 immunisation

Direct Contact with eligible patients through the booking and appointment process

Ongoing

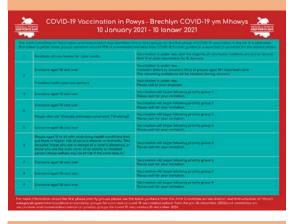
Priority Groups 1-4
Priority Groups 5-9
Wider public when guidance is available

Dedicated website at

www.pthb.nhs.wales/coronavirus
/covid-19-vaccination
Updated daily

tom Updated daily

Public and stakeholder updates via our social media channels Updated daily



Ongoing programme of press and media activity linked to key milestones



Stakeholder engagement with critical stakeholders (CHC, MSs, MP, LA Cabinet/EMT, councillors, TCCs etc.) and weekly Bulletin



Staff engagement and communication
Ongoing

Daily staff bulletins
CEO videos
Intranet
Management Cascade
Stay Well in PTHB Facebook group

Public Online Q&A Events to provide updates and answer key questions



Local amplification of national communication and engagement plan



# PTHB Covid 19 Vaccination – An Inclusive Approach

### A COVID-19 immunisation programme that leaves no one behind

A population based approach to enable us to provide the maximum levels of protection for the maximum number of people as fast as possible Priority Groups 1-4

Priority Groups 5-9

Wider Population as guidance becomes available

Addressing inequalities and inequity and leaving no one behind

**Rurality and Social Deprivation** 

Transient and non-registered populations

**Cross-border** 

**Equality and Welsh Language** 

e.g. Travel, Transport, Distance

e.g. temporary registrations, homelessness, gypsy and traveller communities etc. e.g. Resident vs. Registered CCGs in England, Health Boards in Wales

e.g. accessible venues, inclusive Booking & Appointment systems, housebound. Welsh Language

# PTHB Covid 19 Vaccination Programme Management Arrangements

### **Strategic**

Clinical Leadership, advice and assimilation of National / International Guidance, Policy and Directives

NHS Wales National Programme Interface and management of National / Regional and Cross Border Interdependencies

Population Vaccination Model and Timeline

Workforce Model and Planning

Strategic Communications and Engagement

Programme Direction, Control and Oversight

### **Operational**

#### WORKSTREAMS

Cl	inical Delivery and Clinical Logistics
•	PGD
•	Written
	Instructions
•	Vaccine
	Handling,
	Cold Chain
•	Clinical
	Governance
	and Quality
	inc. IPC
•	Patient
	Experience
	and Safety

Service

Delivery/ Site

Management

#### Venue and Site Logistics

- Venue identification, negotiation and lease / legal
  - Site preparation and set up
    - Site Security and risk assessment
    - Site layout / flow
    - Fixtures, fittings, equipment
    - Ongoing site maintenance & management

#### Supply/ Waste/ **Transport Logistics**

- PPE
- Consumables
- Stock control & management
- Ordering process
- Supply and distribution / transportation
- Public transport to access vaccine (new)

#### **Booking and** Documentation

- Patient recordkeeping
- Information Governance including consent
- **Booking process**
- Call centre set up and management
- ICT systems and equipment
- WIS Data Management & Quality

### Workforce

- Workforce Planning
- Recruitment/ Redeployment
- Military Support
- Volunteer Programme
- Training and Competency
- Skill Mix and Rostering
- Staff Comms & Engagement/ Staff Side Liaison

### Primary Care

- Local negotiation and agreement aligned to national
  - Those who Agreement are in the of Capacity priority and related groups who supply are requireinpatients

**Cohort Specific** 

Task and Finish

Care homes

Over 80s

are

Those who

housebound

Logistical interdependencies

ments

#### **Strategic Oversight Group** reporting by exception / escalation to Strategic Gold Group

#### **Surveillance and Assurance Mechanisms**

- Population Model
- Performance Dashboard
- Programme Implementation Plan
- Standard Operating Manual
- Risk Register
- Reports by exception from Operational Group
- Direction and instruction to Operational Group
- Reports by exception to Gold
- Board reporting
- Clinical oversight arrangements

#### **Operational Group** reporting by exception/escalation to Strategic Gold Group

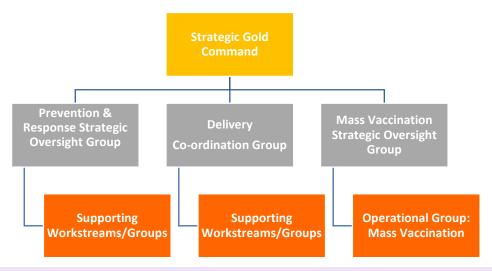
#### **Operational Delivery Mechanisms**

- Workstreams for all authorised areas of work with Workstream lead to co-ordinate and own Implementation Plan
- Workstream lead to update Implementation Plan weekly in line with schedule for Strategic Oversight Group
- SOG will instruct Workstreams to update Standard Operating Manual to include significant developments as appropriate; Workstreams can also recommend updates to be made to SOG
- Risk owners to update Risk Register weekly in line with schedule for Strategic Oversight Group
- Operational Group to bring together Workstream leads for knowledge transfer, horizon scanning / action learning and unblocking/tactical level changes to plan, with
- Escalation to SOG for material changes or recommendations

# PTHB Covid 19 Vaccination Programme Governance

The PTHB programme is part of the PTHB Strategic Gold Group governance arrangements. A Strategic Oversight Group is in place and first meeting held 23 December 2020.

This has a direct reporting arrangement to Strategic Gold Command to ensure rapid escalation and resolution of issues.



The programme is being delivered in partnership with:

- Welsh Government and Public Health Wales; National Covid 19 Vaccination Programme
- The Dyfed Powys Local Resilience Forum
- Primary Care Services
- Powys County Council
- The independent and third sectors

It is informed by the national, regional and local pandemic and civil contingency response arrangements including those for Dyfed Powys as noted above, Welsh Government and cross border system resilience arrangements.

It is also informed by ongoing engagement with the Powys Community Health Council.

	Mass Vaccination Programme Strategic Oversight Group
Purpose	<ul> <li>Lead the development and delivery of the Mass Vaccination Programme</li> <li>Monitor the Clinical and Non-clinical Performance and Outcomes of the Programme</li> <li>Ensure the Programme remains compliant with National Guidelines and Professional Advice</li> <li>Oversee development and delivery of the Programme's Communication and Stakeholder Plan</li> <li>Own the High-Level Programme Risk Register</li> </ul>
Reporting	Provide Exception Reporting to Strategic Gold Command     Receive updates from the Mass Vaccination Operational Group
Chair	Deputy Chief Executive (Director of Planning & Performance)
Membership	<ul> <li>Director of Workforce &amp; OD and Support Services (Vice Chair)</li> <li>Director of Primary, Community Care &amp; Mental Health</li> <li>Director of Finance &amp; IT</li> <li>Director of Public Health</li> <li>Assistant Director of Communications &amp; Engagement</li> <li>Programme Director</li> <li>Programme Clinical Lead</li> <li>* Deputies are asked to attend in the absence of Members</li> </ul>
Secretariat	Programme Support Officer
Frequency	Twice Weekly, Mondays and Wednesdays
Review	Terms of Reference to be reviewed 15th February 2021

Workstream/ Task Area	Executive Lead
Clinical Delivery & Logistics	Medical Director/Director of Nursing and Midwifery
Venue and Site Logistics	Director of Workforce & OD/ Planning & Performance
Supply / Waste / Transport	Director of Workforce & OD
Booking & Documentation	Director of Finance
Workforce	Director of Workforce and Organisational Development
Primary Care	Director of Primary, Community Care & Mental Health
Communications	Director of Planning & Performance
Care Homes	Director of Nursing and Midwifery
Strategic Model	Director of Planning & Performance

# **PTHB Covid 19 Vaccination Programme Risk Management**

A Covid 19 Vaccination Programme Risk Register has been established with weekly update at Strategic Oversight Group and comprehensive monthly review. There is a direct escalation to Strategic Gold Group and link to the Covid Risk Register / Corporate Risk Register and overarching Board Assurance process.

Catastrop hic	5					
Major	4		<ul> <li>Inadequate supplies and disposal arrangements including PPE, clinical and other consumables, cleaning supplies, sharps disposal</li> <li>Adverse reactions to the vaccine</li> <li>Other first aid / urgent / emergency care issues arising on the day (Covid-19 / vaccine / generic ill health related)</li> <li>Poor user and patient experience / risk of staff / public order incidents or issues</li> <li>We experience vaccine hesitancy which leads to poor uptake and prevents sufficient population immunity</li> </ul>	There is insufficient workforce capacity to deliver all phases of the Mass Vaccination Programme	National vaccine supply is not aligned with local delivery and capacity plans	
Moderate	3			<ul> <li>The Mass Vaccination Programme is not delivered on schedule</li> <li>Inadequate information governance controls including in relation to national changes of direction which may impact on consent; subsequent risk of information governance breaches or errors in patient documentation</li> <li>Harm to staff wellbeing including stress during preparatory period of programme and implementation period</li> <li>There is an adverse impact locally caused by frequent short notice changes made nationally to the programme and plan / schedule / sequence of work</li> <li>Cohorts of the population are more difficult for the health board to reach and wait longer than lower priority groups</li> </ul>		
Minor	2	Adverse reactions to the vaccine could lead to staff absence for sickness and impact on capacity in health and social care				
Negligibl e	1					
		1	2	3	4	5
		Rare	Unlikely	Possible	Likely	Almost Certain

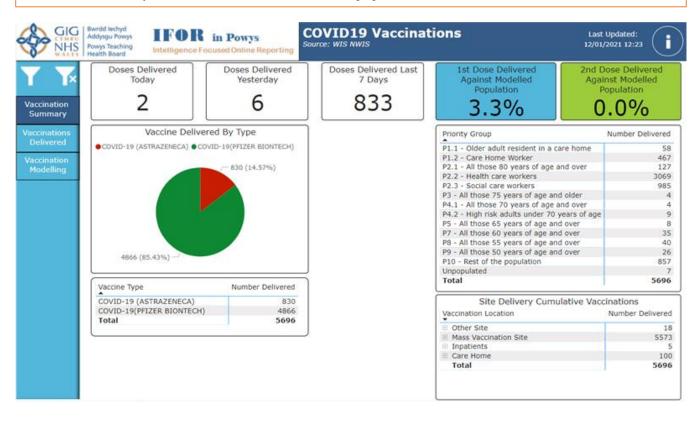
# PTHB Covid 19 Vaccination - Performance and Assurance

#### **Assurance Mechanisms**

- Governance refreshed for Phase 2 of Programme including a Strategic Oversight Group reporting to Strategic Gold Group
- Strategic Population Model developed in accordance with JCVI Priority Groups and NHS Wales National Covid-19 Vaccination Plan and Milestones
- Trajectories produced by the Strategic Model can be adapted for any changes in assumptions / external and internal dependencies such as vaccine supply and workforce
- Steady State Baseline confirmed and two levels of surge modelled
- Steady State model in use and ensures consistency across booking, workforce and clinical delivery processes
- Programme Plan refreshed for Phase 2 to ensure High Level Actions are clearly identifiable for tracking at the Strategic Oversight Group and to Gold by exception
- Daily Sitrep process in place within PTHB and weekly vaccination surveillance and programme progress monitoring
- Weekly Dashboard in development to summarise and track progress against key performance indicators, in line with national requirements / regional and local arrangements and benchmarks
- Reporting and liaison in place with National Covid 19 Vaccination Programme
- Reporting and liaison in place with regional system resilience arrangements in Dyfed Powys and cross border
- Weekly national public facing report
- Data on supply and stock of vaccines

### Key Performance Indicators and Dashboard for Daily Reporting

#### This is in development as shown below - Draft for illustration



#### Key Performance Indicators will include:

- ☐ % Care homes vaccinated
- % Health and Care Staff vaccinated
- ☐ % by Priority Cohort
- ☐ DNA / CNA Running Totals

- Record of any waste of vaccine
- Record of any missed second doses
- ☐ Incidents by number and type
- Adverse Reactions

# PTHB Covid 19 Vaccination – Strategic Modelling of Delivery Scenarios

Baseline: 'Steady State Model'

- 3 Mass Vaccination Sites
  - Newtown
    - 6 Lanes / 50 Hours a Week over 4 days
    - 1968 Vaccines a week / 2040 appointments offered a week (5% + booking allowance)
  - Bronllys
    - 3 Lanes/ 50 Hours a week over 4 days
    - 984 Vaccines a week/ 1020 appointments offered a week (5% + booking rate)
  - Builth Wells
    - 3 Lanes / 50 Hours a week over 4 days
    - 984 Vaccines a week/ 1020 appointments offered a week (5% + booking rate)
- Primary Care all GP Practices will offer vaccination c4000 per week in total across all of Powys geographies
- Plus specific cohorts Care homes, people in Priority Groups who are inpatients and those who are housebound

Surge 1 22 February 2021

#### As above with the following expansion:

- 3 Mass Vaccination Sites
  - Newtown expansion to
    - 8 Lanes/ 5 days a week / Offering 3135 appointments a week
  - Bronllys expansion to
    - 5 Lanes / 5 days a week / Offering 2194 appointments a week
  - Builth Wells expansion to
    - 5 lanes / 5 days a week / Offering 2194 appointments a week
- Primary Care 5000 vaccines

Surge 2 15 March 2021

#### As above with the following expansion:

- 3 Mass Vaccination Sites
  - Newtown expansion to
    - 12 Lanes/ 7 days a week/ Offering 4389 appointments a week
  - Bronllys expansion to
    - 6 Lanes / 7 days a week / Offering 2508 appointments a week
  - Builth Wells expansion to
    - 6 lanes / 7 days a week / Offering 2508 appointments a week
- Primary Care 5600 vaccines

Vaccine supply confirmed for delivery against this model until 14/02.

Change to Primary Care DES/ LES levels.

Key Enablers required for delivery against this model:

- Confirmation from Welsh Government on access to additional vaccine supply
- Workforce
- Local Options
   Framework

# PTHB Covid 19 Vaccination - Technical High Level Model

These slides will briefly cover the Mass Vaccination of Powys population utilising different capacity scenarios. The model created is based on multiple data sources.

#### Scenarios Examples requested

- 1. Current baseline capacity including 12 lanes, 6 North, 3 Mid, 3 South 960 daily capacity, 4 days per week in max vaccination sites with primary care vaccination capacity availability from week 9
- 2. Current maximum capacity including 12 lanes, 6 North, 3 Mid, 3 South, 960 vaccines delivered per day, 4 days per week in max vaccination sites with primary care vaccination capacity availability from week 9.
- 3. Current baseline capacity + Surge 2 from week 15 which includes 24 lanes, 12 North, 6 Mid, 6 South, 960 vaccines delivered per day, 7 days per week in max vaccination sites with primary care vaccination capacity of availability from week 9.

#### **Model Data Sources**

- NWIS PID Resident/Responsible data set
- NWIS closest drive time by LSOA data set
- NWIS WIS data tables
- PCC WCCIS care home resident extract
- Medicine Management Vaccination Stock Estimates

# **Demand - Population**

		Total	% of vaccinatable population
P1.1	Older adult resident in a care home	932	1%
P1.2	Care home worker	1,527	1%
P2.1	All those 80 years of age and over	9,101	8%
P2.2	Health care workers	5,794	5%
P2.3	Social care workers	2,072	2%
P3	All those 75 years of age and over	7,352	6%
P4.1	All those 70 years of age and over	10,046	8%
P4.2	High risk adults under 70 years of age	3,087	3%
P5	All those 65 years of age and over	8,879	7%
P6	Moderate risk 16 years to under 65 years of age	TBC	0%
P7	All those 60 years of age and over	9,263	8%
P8	All those 55 years of age and over	9,770	8%
P9	All those 50 years of age and over	8,883	7%
P10	Rest of the population (over 16)	44,594	37%
	Total to vaccinate	121,300	100%
	Under 16	21,376	
	Total	142,676	

- Population demand is based on registered population, the data has been provided from NWIS prior to vaccine availability e.g. November 2020.
- Any identifiable key worker staff have been removed from their age cohort
- JCVI priority grouping circa December 2020 has been used for stratifying demand cohorts, added to this local assumptions based on WIS data specification criteria has been used for granularity.
- Proxy (WG) Health & Social care key worker demographics have been used within the model e.g. No definitive list of these care groups is currently available (P1.2), this data will be retrospectively validated during the vaccination process.
- Care home workers based on most recent available cohort proxy (20/01/2021)
- No patient level identifiable data is available for the P6 cohort at present (Moderate risk 16-65 years of age), this cohort will be amalgamated within P8,P9 & P10 cohort.

# <u>Delivery Scenario 1 – Current baseline capacity</u>

#### Summary:

Current maximum capacity including – 12 lanes, 6 North, 3 Mid, 3 South, 960 vaccines delivered per day, 4 days per week in max vaccination sites with primary care vaccination capacity availability from week 9.

### **Delivery model**

- Week 1 (7/12/2020) to week 6 (11/01/2021) have been modelled using the "known" vaccine capacity bottleneck e.g. stock we have received. These weeks are deploying to the targeted cohorts of P1.1,P1.2,P2.2 and P2.3.
- Week 7 (18/01/2021) modelled on current mass vaccination sites maximum delivery of vaccine. This is calculated on a 7.5 minutes per vaccine, based on a staffed deliverable of 960 vaccines per day over 12 lanes. When this model is used over a 4 day period it provides a total of 3,840 delivered vaccines per week within the centres
- From week 8 (25/01/2021) the vaccine bottleneck has been removed from the model e.g. we plan that Welsh Government stocks of vaccine can meet our deployable scenarios.
- Week 8 (01/02/2021) and onward, capacity uses current maximum delivery e.g. 3,840 but includes a further 4,000 units of capacity based on the addition of primary care services.

#### Caveats

 This model does not account for delivery risk e.g. vaccine supply challenges, inclement weather or other potential capacity reducing scenarios

### Rollout of vaccination by cohort (1st Dose)

Cohort (JCVI) group	Final week when all patients in cohort will have been invited for their 1 <sup>st</sup> dose	Final week when all patients in cohort will have been invited for their 2 <sup>nd</sup> dose
P 1.1,1.2, P2.2+P2.3 (health care/key workers)	*Week 7 (18/01/2021)	Week 18 (05/04/2021)
P2.1 - All those 80 years of age and over	Week 8 (25/01/2021)	Week 19 (12/04/2021)
P3 - All those 75 years of age and over	Week 9 (01/02/2021)	Week 20 (19/04/2021)
P4.1 & P4.2 - All those 70 years of age and over & High risk adults under 70 years of age	Week 11 (15/02/2021)	Week 22 (03/05/2021)
P5 - All those 65 years of age and over	Week 12 (22/02/2021)	Week 23 (10/05/2021)
P7 - All those 60 years of age and over	Week 13 (01/03/2021)	Week 24 (17/05/2021)
P8 - All those 55 years of age and over	Week 15 (15/03/2021)	Week 26 (31/05/2021)
P9 - All those 50 years of age and over	Week 16 (22/03/2021)	Week 27(07/06/2021)
P10 - Rest of the population (over 16)	Week 32 (12/07/2021)	Week 43 (27/09/2021)

<sup>\*</sup> Some care homes may be delayed beyond this week due to COVID outbreak/closed status

# <u>Delivery Scenario 2 – Current baseline capacity + Surge 1</u>

#### Summary:

Current maximum capacity + Surge 1 from week 12 which includes – 18 lanes, 8 North, 5 Mid, 5 South, 960 vaccines delivered per day, 5 days per week in max vaccination sites with primary care vaccination capacity of availability from week 9.

### **Delivery model**

- Week 1 (7/12/2020) to week 6 (11/01/2021) have been modelled using the "known" vaccine capacity bottleneck e.g. stock we have received. These weeks are deploying to the targeted cohorts of P1.1,P1.2,P2.2 and P2.3.
- Week 7 (18/01/2021) modelled on current mass vaccination sites maximum delivery of vaccine. This is calculated on a 7.5 minutes per vaccine, based on a staffed deliverable of 960 vaccines per day over 12 lanes. When this model is used over a 4 day period it provides a total of 3,840 delivered vaccines per week within the centres
- From week 8 (25/01/2021) the vaccine bottleneck has been removed from the model e.g. we plan that Welsh Government stocks of vaccine can meet our deployable scenarios.
- Week 8 (01/02/2021) to week 11 (15/02/2021), capacity uses current maximum delivery e.g. 3,840 but includes a further 4,000 units of capacity based on the addition of primary care services
- Week 12 (22/02/2022) and onward Capacity increased to surge 1 level. Mass vaccination sites will increase to 18 total lanes running over 5 days = 7,200. Primary care will increase their capacity to 5,000 vaccination per week.

#### **Caveats**

• This model does not account for delivery risk e.g. vaccine supply challenges, inclement weather or other potential capacity reducing scenarios.

# Rollout of vaccination by cohort (1st Dose)

Cohort (JCVI) group	Final week when all patients in cohort will have been invited for their 1 <sup>st</sup> dose	Final week when all patients in cohort will have been invited for their 2 <sup>nd</sup> dose
P 1.1,1.2, P2.2+P2.3 (health care/key workers)	*Week 7 (18/01/2021)	Week 18 (05/04/2021)
P2.1 - All those 80 years of age and over	Week 8 (25/01/2021)	Week 19 (12/04/2021)
P3 - All those 75 years of age and over	Week 9 (01/02/2021)	Week 20 (19/04/2021)
P4.1 & P4.2 - All those 70 years of age and over & High risk adults under 70 years of age	Week 11 (15/02/2021)	Week 22 (03/05/2021)
P5 - All those 65 years of age and over	Week 12 (22/02/2021)	Week 23 (10/05/2021)
P7 - All those 60 years of age and over	Week 13 (01/03/2021)	Week 24 (17/05/2021)
P8 - All those 55 years of age and over	Week 14 (08/03/2021)	Week 25 (24/05/2021)
P9 - All those 50 years of age and over	Week 14 (08/03/2021)	Week 25 (24/05/2021)
P10 - Rest of the population (over 16)	Week 20 (19/04/2021)	Week 31 (05/07/2021)

<sup>\*</sup> Some care homes may be delayed beyond this week due to COVID outbreak/closed status

# <u>Delivery Scenario 3 – Current baseline capacity + surge 2</u>

#### Summary:

Current baseline capacity + Surge 2 from week 15 which includes – 24 lanes, 12 North, 6 Mid, 6 South, 960 vaccines delivered per day, 7 days per week in max vaccination sites with primary care vaccination capacity of availability from week 9.

#### **Delivery model**

- Week 1 (7/12/2020) to week 6 (11/01/2021) have been modelled using the "known" vaccine capacity bottleneck e.g. stock we have received. These weeks are deploying to the targeted cohorts of P1.1,P1.2,P2.2 and P2.3.
- Week 7 (18/01/2021) modelled on current mass vaccination sites maximum delivery of vaccine. This is calculated on a 7.5 minutes per vaccine, based on a staffed deliverable of 960 vaccines per day over 12 lanes. When this model is used over a 4 day period it provides a total of 3,840 delivered vaccines per week within the centres
- From week 8 (25/01/2021) the vaccine bottleneck has been removed from the model e.g. we plan that Welsh Government stocks of vaccine can meet our deployable scenarios.
- Week 8 (01/02/2021) to week 11 (15/02/2021), capacity uses current maximum delivery e.g. 3,840 but includes a further 4,000 units of capacity based on the addition of primary care services
- Week 12 (22/02/2022) to week 14 (08/03/2021) Capacity increased to surge 1 level. Mass vaccination sites will increase to 18 total lanes running over 5 days = 7,200. Primary care will increase their capacity to 5,000 vaccination per week.
- Week 15 (15/03/2021) and onward Capacity increased to surge 2 level. Mass vaccination sites will increase to 24 total lanes running over 7 days at 12.5hr shifts = 13,440. Primary care will increase their capacity to 5,600 vaccination per week.

### Rollout of vaccination by cohort (1st Dose)

Cohort (JCVI) group	Final week when all patients in cohort will have been invited for their 1 <sup>st</sup> dose	Final week when all patients in cohort will have been invited for their 2 <sup>nd</sup> dose
P 1.1,1.2, P2.2+P2.3 (health care/key workers)	*Week 7 (18/01/2021)	Week 18 (05/04/2021)
P2.1 - All those 80 years of age and over	Week 8 (25/01/2021)	Week 19 (12/04/2021)
P3 - All those 75 years of age and over	Week 9 (01/02/2021)	Week 20 (19/04/2021)
P4.1 & P4.2 - All those 70 years of age and over & High risk adults under 70 years of age	Week 11 (15/02/2021)	Week 22 (03/05/2021)
P5 - All those 65 years of age and over	Week 12 (22/02/2021)	Week 23 (10/05/2021)
P7 - All those 60 years of age and over	Week 13 (01/03/2021)	Week 24 (17/05/2021)
P8 - All those 55 years of age and over	Week 14 (08/03/2021)	Week 25 (24/05/2021)
P9 - All those 50 years of age and over	Week 14 (08/03/2021)	Week 25 (24/05/2021)
P10 - Rest of the population (over 16)	Week 17 (29/03/2021)	Week 28 (14/06/2021)

<sup>\*</sup> Some care homes may be delayed beyond this week due to COVID outbreak/closed status

#### **Caveats**

 This model does not account for delivery risk e.g. vaccine supply challenges, inclement weather or other potential capacity reducing scenarios

# PTHB Covid 19 Vaccination - Technical High Level Timeline

#### Below are the 3 models of delivery by priority group (JCVI)

Predicted 1st dose window of invites and vaccination
Predicted 2nd dose window of vaccinations

#### Summary of delivery

Cohorts P1.1,1.2,P2.2+P3 are displayed as a single cohort in the gannt chart as a result of multiple overlapping delivery methods.

Week 1 to Week 6 using known vaccine stock profile. Week 7 uses 3840 units of capacity Week 8 onwards utilises delivery model of 3,840 vaccines delivered from 12 lanes with 4000 delivered doses weekly by primary care.

#### Summary of delivery

Cohorts P1.1,1.2,P2.2+P3 are displayed as a single cohort in the gannt chart as a result of multiple overlapping delivery methods.

Week 1 to Week 6 using known vaccine stock profile. Week 7 uses 3840 Week 9 to week 11 utilises delivery model of 3,840 vaccines delivered from 12 lanes with 4000 delivered

doses weekly by primary care.
Week 12 onwards increases to surge level 1 with 18
lanes delivering 7,200 doses and primary care
delivering a further 5000 doses weekly.

#### Summary of delivery

Cohorts P1.1,1.2,P2.2+P3 are displayed as a single cohort in the gannt chart as a result of multiple overlapping delivery methods.

Week 1 to Week 6 using known vaccine stock profile Week 7 uses 3840 capacity Week 9 to week 11 utilises delivery model of 3,840

vaccines delivered from 12 lanes with 4000 delivered doese weekly by primary care. Week 12 to week 14 increases to surge level 1 with 1 lanes delivering 7,200 doses and primary care delivering a further 5000 doses weekly. Week 15

onwards increases capacity to surge level 2, this is maximum model with 24 lanes open delivering 13,4 with primary care deploying a further 5600 weekly.

#### P10

Current baseline mode

1112,P224P23

P4.18 P4.2

| Current baseline   | + Surge 1   |   |  |   |  |   
   
   
   
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  | Week 16  | Week 17  | Week 16  | Week 10   
  | Week 20  | Week 21   | Watek 22   | Week 23  | Week 24   
  | Week 25  | Week 26  | Week 27  | Week 28  | Week 29  
   | Week 30   | Week 31  |
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  | 00/03/2021   | 15/03/2021  
   
   
   
  | 22/03/2021   | 29/03/2021   | 05/04/2021   | 12/04/2021  
  | 19/04/2021   | 25/04/2021  | 03/05/2021   | 10/00/2021   | 17/05/2021  
  | 24/05/2021   | 3900/2021  | 07/06/2021   | 14/06/2021   | 21/06/2021   
   | 28/06/2021  | 05/07/202  |
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