

Convalescent Plasma Programme (CPP)

NHSBT Board Update: Pre-read

May 2020

V1.0

Introduction

- The Convalescent Plasma programme commenced on 30th March
- The business case was submitted to DHSC on 8th April
- Funding for £17.9M was approved
- In light of the current COVID 19 epidemic, mobilisation and programme delivery have been at pace
- The business case assumed scale-up by mid-late May and up to 5,000 donors per week
- We have had to respond to changing circumstances, as the current epidemic and national response unfolds
- We will provide an update on the latest position at the Board meeting

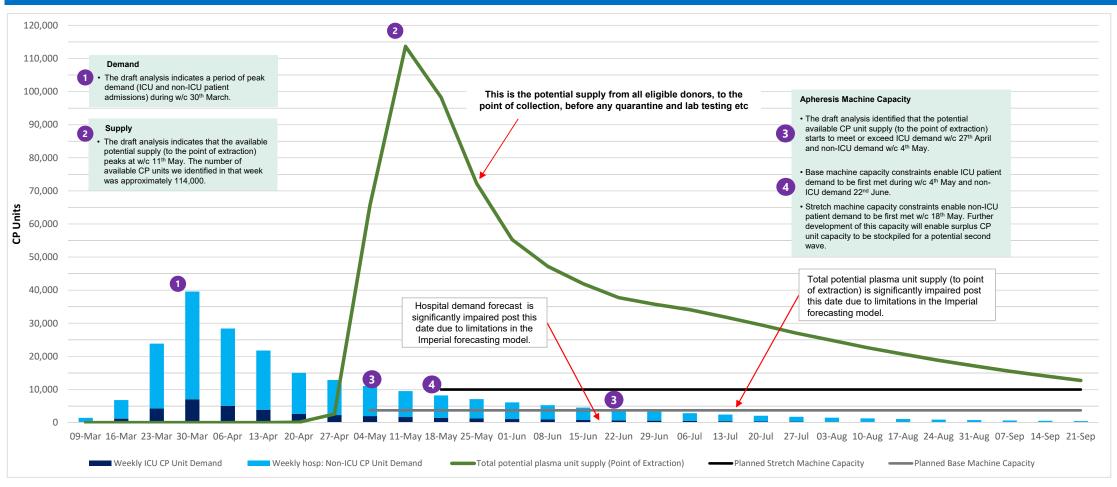
Original programme objectives

Our proactive strategy initially aims to supply \sim 4,000 units of plasma for two clinical trials, simultaneously scaling up to collect a total target of 85,000 CP units* 2 3 Manufacturing & **Donor Outreach** Collection Testing **Patient Treatment** Logistics "Identify, engage, assess "Screen and extract "Test for the presence of "Manufacture, store and "Selection, treatment and and schedule in potential plasma from eligible required antibodies in the distribute useful CP" follow-up of patients CP donors" donors" receiving CP" donor's blood" Identify all the options for Increase CP collection capacity Identify the most effective Extend collection and Triage plasma requests in sourcing potential donors using existing collection screening and neutralizing tests, distribution network for plasma line with trial protocol or facilities, focusing on apheresis, to test for the concentration and donations NHSE clinical guidelines Define and assess donors whilst still enabling whole-blood quality of antibodies in donor against the minimum eligibility donation Expand storage facilities to store Deliver treatment plasma requirements plasma donations with the Assess results and follow-up Identify and set-up new Scale up screening and correct quality monitoring Implement engagement collection centres to support neutralising Ab tests in order with the patient procedures methods and communication scaled CP collection to complete clinical trial and messages that enables scaled initiate full roll-out donor recruitment

*The supply target for the RECOVERY trial has changed since the programme initiation, and is now 10,000 units. The target for the REMAP CAP trial is still ~2,000 units

Backdrop of the challenge





Subject to change as data is refreshed, additional actuals are included and assumptions amended



Convalescent plasma UK trial

- Patients admitted to ITU within last 48 hours
- Confirmed COVID
- CP versus standard care (+/- other randomised treatments)
- CP on study day 1 and day 2
- Primary outcome number of organ support-free days up to D21
- REMAP-CAP outcomes plus other domain specific outcomes arterial or venous thrombosis, SAEs
- Planned recruitment 2000 participants, approx. 1000 receive CP
- Intensive blood and respiratory sampling for a subgroup (400 participants)

RECOVERY

Randomised Evaluation of COVID-19 Therapy

Convalescent plasma UK trial

- Hospitalised patients
- Confirmed COVID
- CP versus standard care (+/- other randomised treatments)
- CP on study day 1 and day 2
- Primary outcome 28 day mortality
- Other outcomes need for ventilation, renal support, hospital stay
- Also thrombotic outcomes and Transfusion-related AEs usually reportable to SHOT
- Planned recruitment at least 5000 participants, 2500 receiving CP
- Substantial amendment submitted to include children

Some great progress has been made...





NHS calls for blood plasma donations from recovered coronavirus patients to help trial new treatment



National press coverage



BCNEWS

Coronavirus: Thousands signal

nterest in plasma trial

Promotional video & social media campaign launched



First unit of CP collected at WEDC









DS2 machines arrive at Filton to enable inhouse C19 testing...



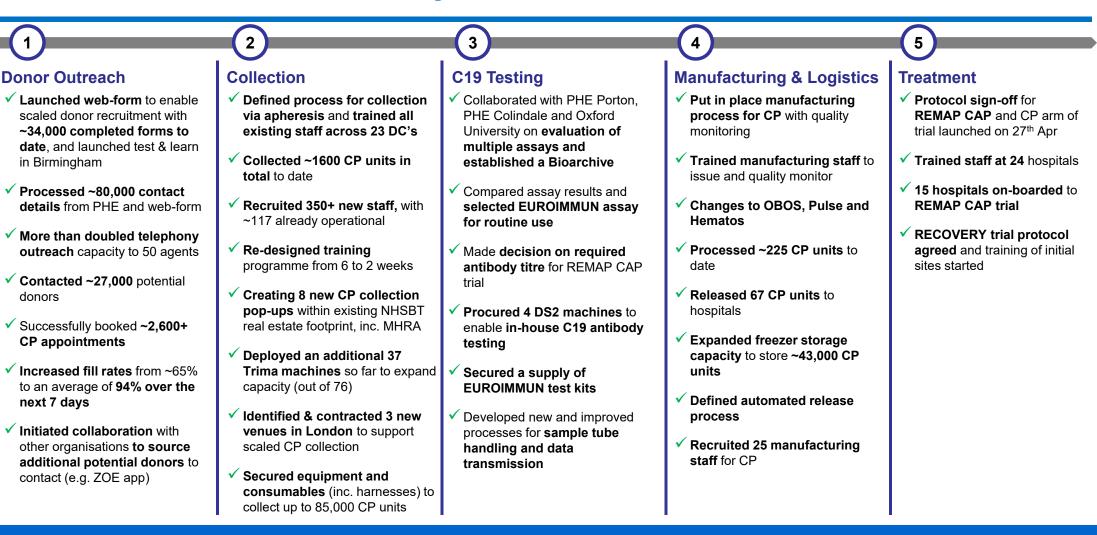
West End Donor Centre teams! This week they are completing basic training to know how to triage and screen donors, as well as collect blood, platelets and plasma. They've had to learn lots quickly to join #TeamNHSBT and help in the response to COVID-19 and we're happy to have them on board. Welcome!

> New donor carers and nurses trained & operational



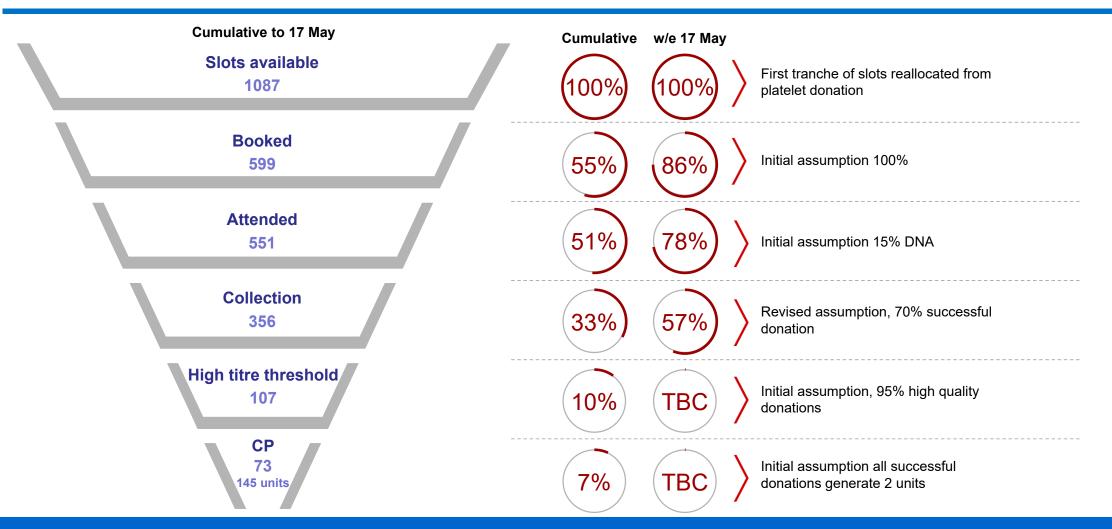
Achievements to 20th May

Blood and Transplant



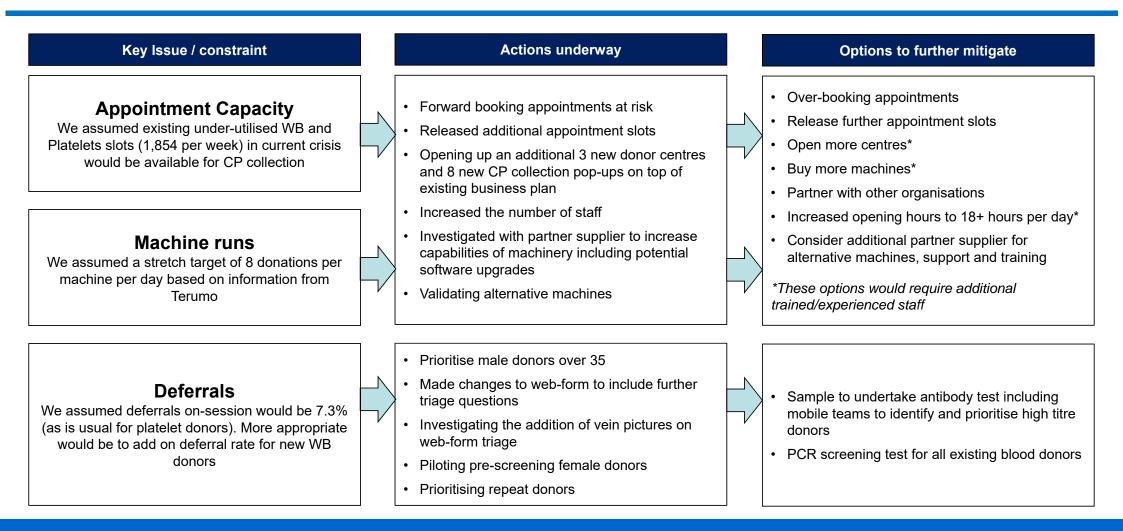
Attrition on the CP donation pathway





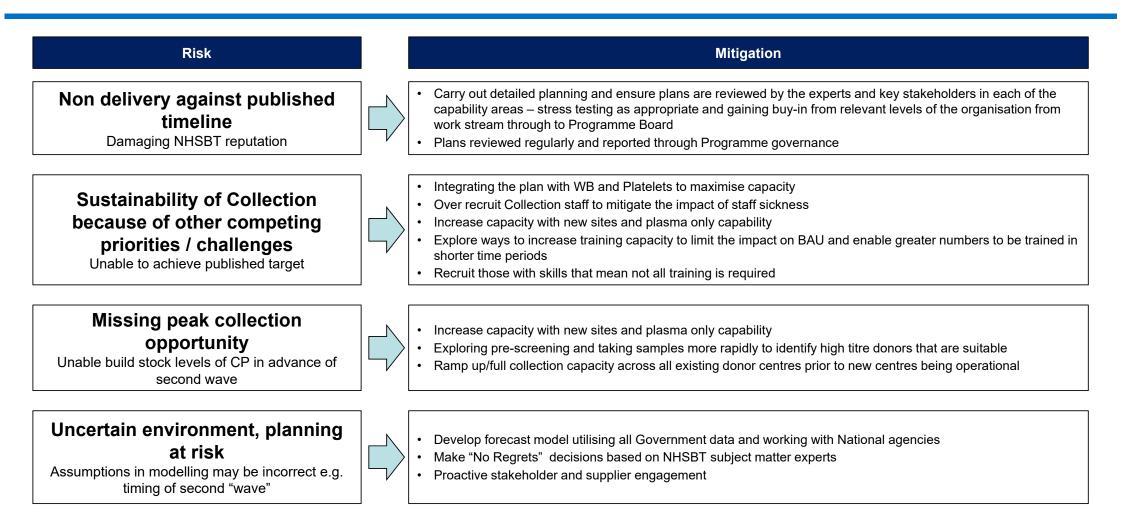
Interventions to address attrition



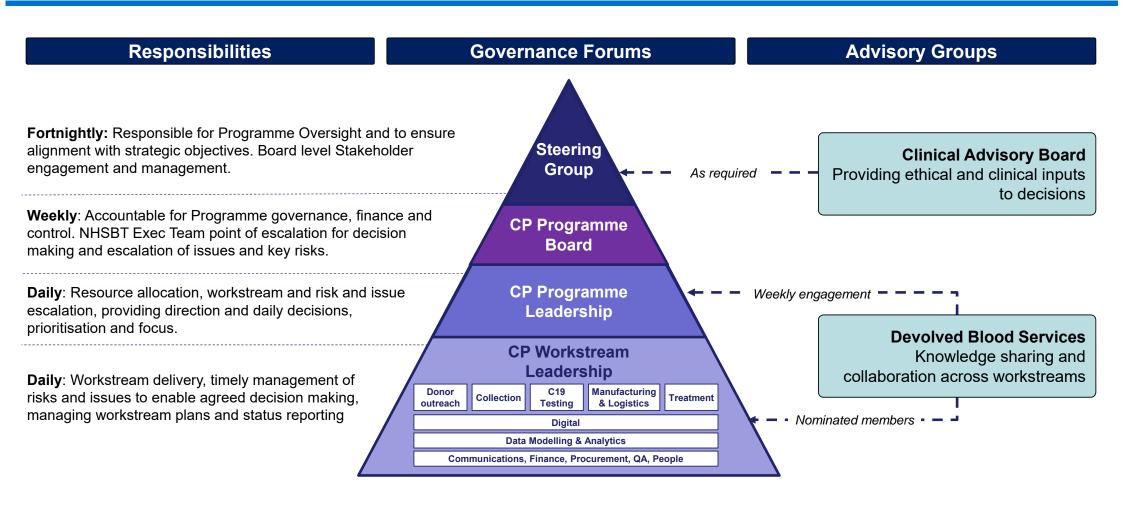


Current headline Programme risks





Programme governance overview





Financial update as of 20th May

Initial Target Scenario 85,000 units	Estimate Provided to DHSC (£'K)	Forecast total cost (£'K)	Forecast additional cost* (£'K)	Forecast absorbed cost** (£'K)	Currently Incurred (£'K)	Comment	 *Cost of be cha directly
Project Staffing including Deloitte	£1,500	£1,300	£1,300		£602	Deloitte Costs anticipated to be £1.2M	project
Temporary Donor Centres	£500	£300	£300		£185		• ** Cost
raining, PPE, Freezers etc.	£500	£300	£300		£193	4 Freezers delivered to Filton + Racking & Contronics	 absorbed within baseline budgets initially i.e Utilisation current s ***Incurre cost for T Kits and consuma
torage & Distibution	£0	£687	£687		£568	Freight, Transport Boxes, Warehousing	
Donation Couches	£250	£122	£122		£122	Based on 35 chairs + 30 adaptive pads	
Other one-off costs	£0	£300	£300		£206	Including 4 x DS2 Analysers	
OTAL PROJECT/ SET-UP COSTS	£2,750	£3,009	£3,009		£1,875		
est Kits***	£2,580	£1,060	£1,060		£18	Micro, NAT, HLA/HPA Antibody, COVID antibody	
Consumables***	£3,615	£3,277	£3,277		£62	Harness, Transfer Packs etc.	
ATHS Staff	£310	£314	£82	£232	36	Part of cost absorbed in baseline establisment	
H&I Staff	£0	£340	£340		6		
Blood Donation Staff	£2,975	£2,975	£2,329	£646	212		
TOTAL PRODUCTION COSTS	£9,480	£7,966	7,089	878	396		charged
Donor Recruitment (Based on £50 per donor)	£2,125	£1,500	£1,500		£55	Includes cost of NCC Agents & Allowance for Marketing	project i
CONTIGENCY	£3,590					25%	with uni
TOTAL ESTIMATED COST	£17,945	£12,475	£11,598	£878	£2,326		collecte

• Project on track to deliver 85k units within financial envelope of estimate provided to DHSC.

• Forecast has reduced from £12.8M to £12.5M (excluding contingency) due to further clarity on Estates costs and Deloitte costs. Not currently forecasting to use contingency.

Summary

- The team have achieved a huge amount in the 8 weeks since programme launch
- The current environment has meant that the programme has needed to operate in a different way to the traditional NHSBT approach
- Decision making has had to be fast, bold and based on untested assumptions
- The programme is forecast to deliver the 85,000 units within the financial envelop, but there are challenges in scaling up and balancing business as usual
- Discussions are ongoing with the Programme Board and Steering Group on the appropriate pace and scale
- The programme must be considered within the wider context of DHSC responses to the current epidemic
- Any next steps and decisions on the strategic direction for NHSBT need to consider other potential responses, such as the role of Hyperimmune Globulin, as the two are inter-linked