RECOVERY EU Pharmacy Briefing

(Based on Core Protocol V28.0 2025-06-30 and EU Region-Specific Appendix V2.0 2025-06-30)

Contents

1 Introduction

RECOVERY is an open-label platform trial evaluating treatments for patients hospitalised with influenza or community-acquired pneumonia (CAP) caused by other pathogens. Several previous treatments have been evaluated in RECOVERY, and the IMPs being evaluated in the EU are listed in the table below (treatment comparisons "G", "H", "I" and "M" from the core protocol). IMPs for the oseltamivir and corticosteroid comparisons are supplied, labelled and accounted for as if given as part of routine care, without any trial specific procedures. Trial-specific baloxavir marboxil is supplied to sites via the Roche distribution network. Prescriptions of all trial IMPs should be written in the same manner as for usual care, with no additional documentation (unless there is a local requirement for this). Depending on local requirements, trial IMP may need to be prescribed by a doctor specifically delegated to do this, or it may be acceptable for any attending doctor to prescribe the IMP (this can be confirmed with the site PI). Only adults (aged ≥18 years) are eligible in the EU.

Table 1: IMPs in RECOVERY

Medicine	Formulation	Source	IMP-specific training & delegation[1]	Trial-specific accountability log required	Trial specific labelling
Randomisation Part G (baloxavir marboxil comparison – patients with influenza)					
Baloxavir marboxil	Oral tablet	Roche trial specific stock	Yes	No[2] (accountability as for routine care)	Yes
Randomisation Part H (oseltamivir comparison – patients with influenza)					
Oseltamivir	Oral capsule, oral suspension	Hospital pharmacy stock used for routine care	No	No (accountability as for routine care)	No
Randomisation Part I (corticosteroid comparison – patients with influenza)					
Dexamethasone	Oral tablet, oral suspension, intravenous ampoules	Hospital pharmacy stock used for routine care	No	No (accountability as for routine care)	No
Prednisolone (alternative for pregnant/ breastfeeding women)	Oral tablets, oral suspension	Hospital pharmacy stock used for routine care	No	No (accountability as for routine care)	No
Hydrocortisone (alternative for pregnant/ breastfeeding women)	Intravenous ampoules	Hospital pharmacy stock used for routine care	No	No (accountability as for routine care)	No
Randomisation Part M (corticosteroid comparison – patients with community-acquired pneumonia)					
Dexamethasone	Oral tablet, oral suspension, intravenous ampoules	Hospital pharmacy stock used for routine care	No	No (accountability as for routine care)	No
Prednisolone (alternative for pregnant/ breastfeeding women)	Oral tablets, oral suspension	Hospital pharmacy stock used for routine care	No	No (accountability as for routine care)	No
Hydrocortisone (alternative for pregnant/ breastfeeding women)	Intravenous ampoules	Hospital pharmacy stock used for routine care	No	No (accountability as for routine care)	No

[1] Required for at least one member of the pharmacy team.

[2] A record must be kept of IMP deliveries, use, and inventory, in line with usual pharmacy procedures for handling medications. Example accountability logs for baloxavir marboxil with minimally required information will be provided, but sites may choose to use their own local methods.

In each comparison, patients are randomly allocated in a 1:1 ratio to the trial treatment or usual care without that trial treatment. Participants may be allocated to >1 trial treatment if they enter >1 comparison (e.g. patients with influenza could be allocated to receive baloxavir marboxil, oseltamivir and corticosteroids if they enter all three comparisons). If participants are allocated to

'usual care' they do not require a prescription (there is no placebo). All trial treatments should be started as soon as possible after randomisation, aiming for a delay of no more than 6 hours.

Example SmPCs for IMPs are available on the trial website (www.recoverytrial.net/eu/regulatory-documents), which provide trial Reference Safety Information (SmPC section 4.8). For specific information about locally supplied IMPs (e.g. storage, excipients, expiry), refer to the relevant SmPC for that formulation.

2 Dexamethasone

2.1 Initial supply and re-ordering

Dexamethasone will be sourced by the local pharmacy procurement team via their standard procedures. The locally available formulation can be used.

2.2 Storage

See SmPC for the formulation used at the site. No temperature excursion reporting required to the trial team. Follow local SOPs to manage temperature excursions.

2.3 Dispensing

The regime is identical for **Randomisation Part I** (corticosteroids for influenza) and **Randomisation Part M** (corticosteroids for CAP):

Dexamethasone administered by mouth, feeding tube or intravenously.

Duration	10 days, stopped on discharge from hospital if this happens sooner
Dose	6mg
Frequency	Once daily

Note, an alternative corticosteroid with less fetal/infant exposure should be used in pregnant or breastfeeding women (this can be either prednisolone orally or hydrocortisone intravenously as described below).

2.4 Returns and Destruction

Any unused stock should be disposed of in the usual manner. No approval from sponsor is required.

2.5 FAQs

How is dexamethasone to be prescribed as there are different salts available?
To be prescribed as dexamethasone base

Is the dose the same for oral and intravenous for dexamethasone despite differences in bioavailability?
Yes, the dose will be as the base for both intravenous and oral.

How should the oral dose be taken?
Dexamethasone should ideally be taken with or after food to minimise irritation to the gastrointestinal tract.

Our normal hospital practice is to dissolve dexamethasone 2mg tablets instead of using soluble tablets or oral liquid, is this permitted?

Yes. If sites cannot source the soluble tablets or liquid, then the 2mg tablets can be dissolved in 10mL of water. There are no issues with this going down a fine bore nasogastric tube[1].

Is intravenous dexamethasone to be given as an intravenous bolus or infusion?
Either is acceptable, the treating clinician can decide.

3 Prednisolone

3.1 Initial supply and re-ordering

Prednisolone will be sourced by the local pharmacy procurement team via their standard procedures. The locally available formulation can be used.

3.2 Storage

See SmPC for the formulation used at the site. No temperature excursion reporting required to the trial team. Follow local SOPs to manage temperature excursions.

3.3 Dispensing

Pregnant and breastfeeding women should receive *either* prednisolone *or* hydrocortisone instead of dexamethasone (if it's necessary to change the route of administration, women can switch between prednisolone and hydrocortisone, but the treatment end date should remain the same). The regime is identical for **Randomisation Part I** (corticosteroids for influenza) and **Randomisation Part M** (corticosteroids for CAP):

Prednisolone administered by mouth or feeding tube.

Duration	10 days, stopped on discharge from hospital if this happens sooner
Dose	40mg
Frequency	Once daily

3.4 Returns and Destruction

Any unused stock should be disposed of in the usual manner. No approval from sponsor is required.

4 Hydrocortisone

4.1 Initial supply and re-ordering

Hydrocortisone will be sourced by the local pharmacy procurement team via their standard procedures. The locally available formulation can be used.

4.2 Storage

See SmPC for the formulation used at the site. No temperature excursion reporting required to the trial team. Follow local SOPs to manage temperature excursions.

4.3 Dispensing

Pregnant and breastfeeding women should receive *either* prednisolone *or* hydrocortisone instead of dexamethasone (if it's necessary to change the route of administration, women can switch between prednisolone and hydrocortisone, but the treatment end date should remain the same). The regime

[1] Handbook of Drug Administration via Enteral Feeding Tubes ISBN 9780857111623

is identical for **Randomisation Part I** (corticosteroids for influenza) and **Randomisation Part M** (corticosteroids for CAP):

Hydrocortisone sodium succinate administered intravenously.

Duration	10 days, stopped on discharge from hospital if this happens sooner
Dose	80mg
Frequency	Twice daily

4.4 Returns and Destruction

Any unused stock should be disposed of in the usual manner. No approval from sponsor is required.

5 Oseltamivir

5.1 Initial supply and re-ordering

Oseltamivir will be sourced by the local pharmacy procurement team via their standard procedures. The locally available formulation can be used.

5.2 Storage

See SmPC for the formulation used at the site. No temperature excursion reporting required to the trial team. Follow local SOPs to manage temperature excursions.

5.3 Dispensing

Oseltamivir administered by mouth or feeding tube.

Duration	5 days (10 days if the patient is immunosuppressed in opinion of their doctor). If the participant is discharged before the course is complete, they should be provided with medication to complete the course at home.	
Dose	Participants weighing >40 kg	75mg
	Participants weighing 23-40kg	60mg
Frequency	eGFR ≥30 ml/min/1.73m^2	twice daily
	eGFR 10-29 ml/min/1.73m^2	once daily
	eGFR <10 ml/min/1.73m^2	single dose on day 1 (including immunosuppressed)

Note the renal dosing adjustment in RECOVERY differs from the SmPC, as it is based on the UK Renal Drug Database regime.

5.4 Returns and Destruction

Any unused stock should be disposed of in the usual manner. No approval from sponsor is required.

5.5 FAQs

Are parenteral routes available?

No. If a patient becomes unable to take oseltamivir via an enteral route there is no alternative in the trial. If the clinical team wish to continue treatment with a parenteral NAI (e.g. zanamivir) this would be done at their discretion and is not part of the trial protocol.

6 Baloxavir marboxil

In order to participate in the baloxavir marboxil comparison, the pharmacy team must include one or more people delegated responsibility for management of baloxavir marboxil at their site by the Principal Investigator. Delegated people must have completed the 'Pharmacy' and 'Influenza Treatments' modules by either (i) attending a relevant trial training session (in-person or online), or (ii) completing self-directed training by reading this document and the 'Influenza Treatments' slides (accessed via the relevant country training webpage), and confirming this by completing the online training confirmation forms for 'Pharmacy' and 'Influenza Treatments' modules.

A delegated member of the pharmacy team may allow non-delegated members of the team to perform some trial activities, such as dispensing baloxavir marboxil, requesting resupply, or receiving shipments, if they are satisfied that; (i) the non-delegated member can follow the instructions in this document reliably, and (ii) the non-delegated member will be performing activities similar to those they perform in their usual professional practice.

Documents relating to baloxavir marboxil, including QP declaration, GMP/MA certificates, labelling (in all languages), and pictures of the packaging are available via the website on the EU 'Regulatory and Pharmacy documents' page (www.recoverytrial.net/eu/regulatory-documents).

6.1 Initial supply and re-ordering

Baloxavir marboxil is sourced free of charge from Roche. It is available as packs of 2 x 20mg tablets, labelled as a clinical trial IMP.

Initial supply should be 30 packs. Before stock falls to 10 packs, please re-order by emailing the Oxford trial team at recoverytrial@ndph.ox.ac.uk with your request, making sure you state:

- Your site name
- The hospital address for delivery
- The number of packs required (maximum stock holding should be 30 packs, but please discuss with the trial team if this creates problems because of high recruitment)

The trial team will place orders using the Roche clinical trial distribution system (STRIDE), and we expect deliveries to arrive within 5 working days of the order being placed, although at certain times this may take longer.

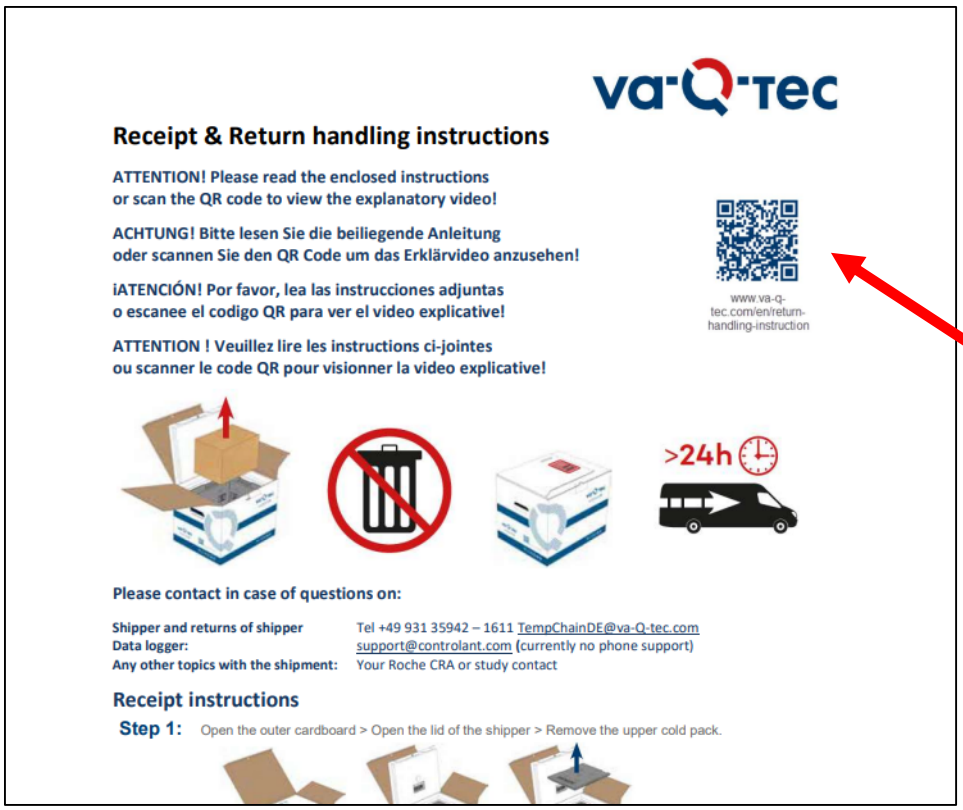
Receiving shipments
Shipments are sent at ambient temperature and include a reusable cloud-based temperature monitor with real time data tracking (Smart Sensor data logger). Upon receipt of the shipment:

1) Check that the shipment appears intact and complete

2) Locate:
   i. The Smart Sensor
   ii. The 'Delivery Note/Consignment Request' document
   iii. The 'Receipt and Return handling instructions' document

The Receipt and Return handling instructions are also available on the website (www.recoverytrial.net/eu/regulatory-documents).

3) Stop the Smart Sensor. The Receipt and Return handling instructions explain how to do this and recognise if the alarm light indicates a temperature excursion. If a temperature excursion has occurred (alarm light is blinking), quarantine the material and contact the Oxford trial team (recoverytrial@ndph.ox.ac.uk) for guidance. A QR code on the instructions links to an explanatory video.



va-Q-tec

Receipt & Return handling instructions

ATTENTION! Please read the enclosed instructions or scan the QR code to view the explanatory video!

ACHTUNG! Bitte lesen Sie die beiliegende Anleitung oder scannen Sie den QR Code um das Erklärvideo anzusehen!

¡ATENCIÓN! Por favor, lea las instrucciones adjuntas o escanee el codigo QR para ver el video explicative!

ATTENTION ! Veuillez lire les instructions ci-jointes ou scanner le code QR pour visionner la video explicative!

www.va-q-tec.com/en/return-handling-instruction

>24h

Please contact in case of questions on:

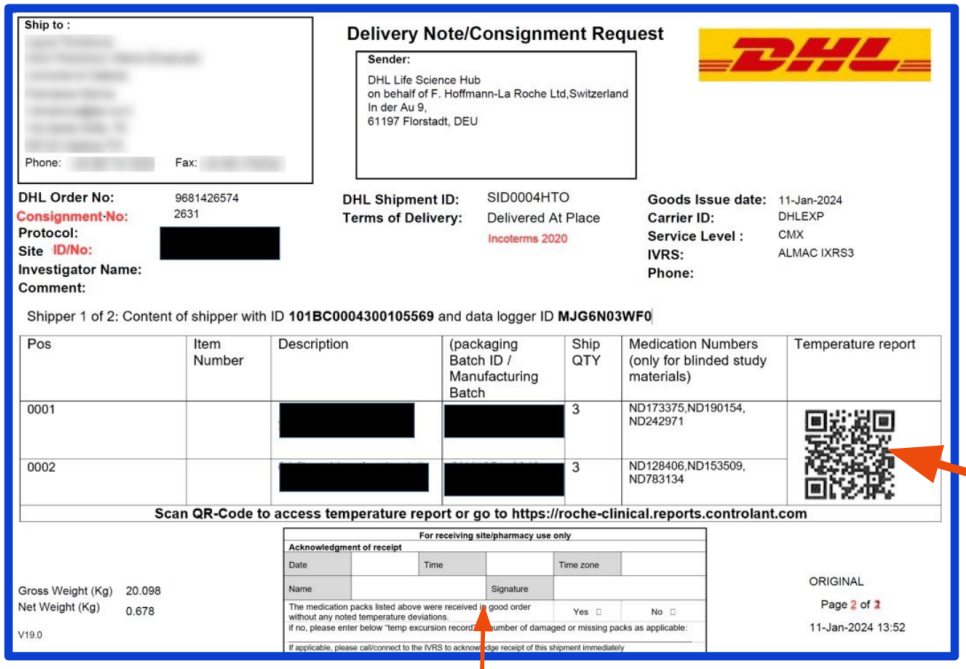
Shipper and returns of shipper	Tel +49 931 35942 – 1611 TempChainDE@va-Q-tec.com
Data logger:	support@controlant.com (currently no phone support)
Any other topics with the shipment:	Your Roche CRA or study contact

Receipt instructions

Step 1: Open the outer cardboard > Open the lid of the shipper > Remove the upper cold pack.

QR code with link to explanatory video

4) Record details of the shipment receipt on the Delivery Note, in the box indicated below.



Ship to :

Phone: Fax:

Delivery Note/Consignment Request

Sender:
DHL Life Science Hub
on behalf of F. Hoffmann-La Roche Ltd,Switzerland
In der Au 9,
61197 Florstadt, DEU

DHL

DHL Order No:	9681426574	**DHL Shipment ID:**	SID0004HTO
Consignment No:	2631	**Terms of Delivery:**	Delivered At Place
Protocol:	[redacted]		Incoterms 2020
Site ID/No:		**Goods Issue date:**	11-Jan-2024
Investigator Name:		**Carrier ID:**	DHLEXP
Comment:		**Service Level :**	CMX
		IVRS:	ALMAC IXRS3
		Phone:	

Shipper 1 of 2: Content of shipper with ID **101BC0004300105569** and data logger ID **MJG6N03WF0**

Pos	Item Number	Description	(packaging Batch ID / Manufacturing Batch	Ship QTY	Medication Numbers (only for blinded study materials)	Temperature report
0001		[redacted]	[redacted]	3	ND173375,ND190154, ND242971	
0002		[redacted]	[redacted]	3	ND128406,ND153509, ND783134	

Scan QR-Code to access temperature report or go to https://roche-clinical.reports.controlant.com

For receiving site/pharmacy use only

Acknowledgment of receipt

Date		Time		Time zone	
Name			Signature		

The medication packs listed above were received in good order without any noted temperature deviations. Yes ☐ No ☐

if no, please enter below "temp excursion record" number of damaged or missing packs as applicable:

If applicable, please call/connect to the IVRS to acknowledge receipt of this shipment immediately

Gross Weight (Kg) 20.098
Net Weight (Kg) 0.678

V19.0

ORIGINAL

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QR code for downloading temperature report

Box for recording details of shipment receipt

5) Scan the QR code on the Delivery Note to download the temperature report. A copy of the temperature report and the Delivery Note should be kept in the Investigator Site File (electronic or physical copies can be kept, according to local preference). The temperature report can also be obtained by emailing the trial team if necessary. Note the instructions may say 'record the shipment in IxRS (as applicable)', but this system is not used for RECOVERY shipments.

6) Follow the Receipt and Return handling instructions to prepare the shipper and Smart Sensor for return.

6.2 Storage

Store at room temperature (15-30°C). No trial-specific temperature monitoring is required once the material is received by the pharmacy, and this can be done in line with the usual pharmacy practice (the material is equivalent to commercial baloxavir marboxil, which has no temperature storage requirements). If a problem in the storage conditions of the material is identified, then quarantine the material and notify the trial team as above.

All sites will need to ensure clear storage separation between stock for this study and general hospital stock for flu patients or stock used for other clinical trials.

6.3 Dispensing

Two doses of baloxavir marboxil, administered by mouth or feeding tube. The first dose is to be given on day 1 and the second dose on day 4. Treatment should be started as soon as possible after the patient is randomised, aiming for a delay of no more than 6 hours. This two-dose regimen is based on evidence from a previous trial in hospitalised patients, and is different to the one-dose regimen licensed for uncomplicated influenza.

If the patient is discharged before the course is complete, they should be provided with the 2nd dose to take at home. The trial follow-up form will record whether or not this happened, but site teams do not need record whether or not the 2nd dose was actually taken by the patient after discharge.

Dosing of baloxavir marboxil depends on the patient's weight:

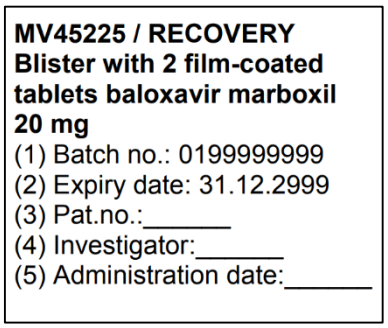
<40kg	Not eligible for baloxavir marboxil comparison
40kg to <80kg	Baloxavir marboxil 40mg on day 1 and day 4
≥80kg	Baloxavir marboxil 80mg on day 1 and day 4

No adjustment is needed for patients with renal impairment.

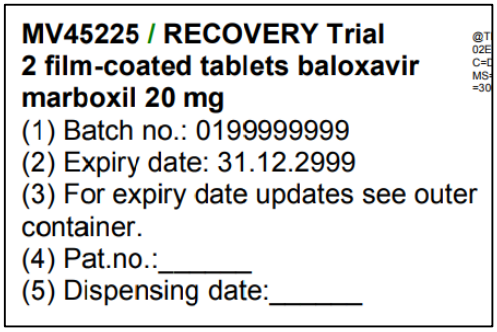
1) Check that the IMP has not passed its expiry date.

2) The following information should be written on the front page of the box and blister label booklets, in the spaces provided:

- 'Pat no.' (this can be RECOVERY participant ID or a local hospital number)
- 'Investigator' (name of site Principal Investigator, on box only)
- 'Dispensing date' or 'Administration date' (write the dispensing date for both, as this is also the intended administration date)

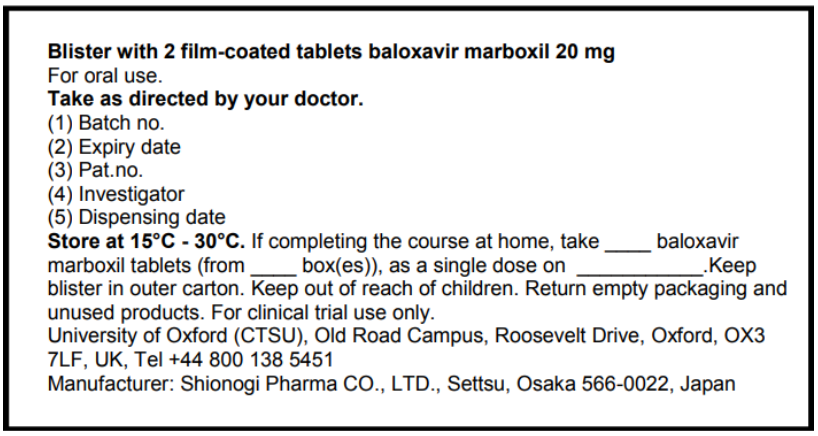


Box



Blister

3) Instructions for the second dose should be written on the relevant language page of the box label booklet. The labelling includes spaces to write instructions for the second dose:


Blister with 2 film-coated tablets baloxavir marboxil 20 mg
For oral use.
Take as directed by your doctor.
(1) Batch no.
(2) Expiry date
(3) Pat.no.
(4) Investigator
(5) Dispensing date
Store at 15°C - 30°C. If completing the course at home, take ____ baloxavir marboxil tablets (from ____ box(es)), as a single dose on _____.Keep blister in outer carton. Keep out of reach of children. Return empty packaging and unused products. For clinical trial use only.
University of Oxford (CTSU), Old Road Campus, Roosevelt Drive, Oxford, OX3 7LF, UK, Tel +44 800 138 5451
Manufacturer: Shionogi Pharma CO., LTD., Settsu, Osaka 566-0022, Japan

For example, the label would be completed as follows for a patient randomised on 28/11/2025 (day 1):

- **If patient weighs <80kg** "If completing the course at home, take _2_baloxavir marboxil tablets (from _1_ box(es)), as a single dose on _1/12/2025_"
- **If patient weighs ≥80kg** "If completing the course at home, take _4_baloxavir marboxil tablets (from _2_ box(es)), as a single dose on _1/12/2025_"

The second dose should be dispensed with the first if possible, so the complete course is held on the ward with the patient. Do not allow dispensing to delay discharge from hospital, as this could introduce bias to trial results for duration of hospital stay.

A record must be kept of baloxavir marboxil deliveries, use, and inventory, in line with usual pharmacy procedures for handling medications. Example accountability logs for baloxavir marboxil with minimally required information are available from the trial website (www.recoverytrial.net/eu/regulatory-documents), but sites may choose to use their own local methods.

6.4 Returns and Destruction

Any remaining stock at the end of the trial should be disposed of according to local pharmacy procedures. No sponsor approval is required before destruction, but the sponsor should be informed afterwards that all remaining trial baloxavir marboxil has been destroyed (email recoverytrial@ndph.ox.ac.uk).

6.5 Recalls, complaints or use of expired IMP

In the event of a recall, the Oxford trial team will email the PI and pharmacy contact and ask them to quarantine the material immediately, and to provide confirmation of action taken. We will then arrange for the material to be collected.

In case of any IMP-related issues, complaints, or the use of expired IMP, please contact the Oxford trial team (recoverytrial@ndph.ox.ac.uk).

6.6 FAQs

Also see the baloxavir marboxil intervention sheet www.recoverytrial.net/eu

Can baloxavir marboxil tablets be cut or crushed for patients who have swallowing difficulties or who have a feeding tube?

The tablets must **not** be crushed or split. If administering via a feeding tube, the tablets can be dissolved in 100ml water. While the company's in house data on dispersing tablet has not been tested for enteral administration, baloxavir marboxil suspension is licensed in the US for administration via enteral feeding tube, suggesting drug interaction with tubing is unlikely to be an issue. Given the licensed baloxavir marboxil 2mg/mL suspension is bioequivalent to baloxavir marboxil tablet, and the suspension is a simple suspension formulation (excipients: non-colloidal silicon dioxide, hypromellose, maltitol, mannitol, povidone K25, sodium chloride, strawberry flavour, sucralose and talc), the administration of dispersed tablet suspension is likely to have minimal impact on bioavailability.

For patients who cannot swallow tablets and who do not have a feeding tube, tablets may be dissolved in 100ml water. However, this cannot be mixed with anything to improve taste or alter consistency (e.g. thickener).

How should the tablets be taken?

The tablets must be swallowed whole with or without food. Baloxavir marboxil should not be taken with products that contain polyvalent cations such as laxatives, antacids or oral supplements containing iron, zinc, selenium, calcium or magnesium.

Do tablets contain lactose?

Yes, the tablets contain lactose as an excipient, so patients who are lactose intolerant should not be randomised in the baloxavir marboxil comparison.

My patient is pregnant or breastfeeding, can they be treated with baloxavir marboxil?

No, pregnant or breastfeeding women cannot be randomised to the baloxavir marboxil comparison in the EU.

7 Version History

Version	Issue Date	Author	Description
1.0	2024-02-08	Leon Peto	First version
2.0	2025-10-22	Vanessa Tobert/Leon Peto	Addition of baloxavir marboxil
2.1	2025-11-12	Vanessa Tobert	Minor update to wording in baloxavir section