

North Central London Medicines Optimisation Network

JOINT FORMULARY COMMITTEE (JFC) — MINUTES Minutes from the meeting held on 14th December 2021

Present: Prof R Sofat NCL JFC Chair (Chair)

Dr B Subel NCL JFC Vice Chair WH, DTC Chair Dr M Kelsey Dr K Tasopoulos NMUH, DTC Chair Mr S Semple MEH, Chief Pharmacist Mr J Harchowal UCLH, Chief Pharmacist Mr S Richardson WH, Chief Pharmacist Mr S Tomlin GOSH, Chief Pharmacist UCLH, Interim DTC Vice Chair Dr A Scourfield

Ms E Mortty NCL CCG, Deputy Head of Medicines Management

(Haringey)

Mr P Gouldstone NCL CCG, Head of Medicines Management (Enfield)

Ms K Delargy BEH, Chief Pharmacist

Mr A Dutt NCL CCG, Head of Medicines Management (Islington)
Ms M Singh NCL CCG, Head of Medicines Management (Barnet)

Ms N Phul MEH, Chief Pharmacist
Ms S Stern NMUH, Chief Pharmacist

Dr R Urquhart UCLH, Divisional Clinical Director

In attendance: Ms E Fiori NCL CCG, Director of Acute Commissioning

Dr J Hawdon RFL, Consultant Neonatologist
Ms C Dollery WH, Executive Medical Director
Dr F Bennett UCLH, Clinical Pharmacology Registrar

Ms H Weaver NHSE, Specialised Commissioning Pharmacist Dr M Brown UCLH, Consultant in Infectious Diseases

Ms A Fakoya NHS London Shared Service, Contract and Commissioning

Support Pharmacist

Ms O McGarrity
Ms S Sanghvi
Mr G Grewal
Mr R Rajan
Ms O McGarrity
GOSH, Lead Microbiology Pharmacist
North London Partners, Principal Pharmacist
North London Partners, JFC Support Pharmacist

Ms N Ngoka RFL, Commissioning Pharmacist

Dr S Brill RFL, Consultant in Respiratory Medicine
Ms I Samuel RFL, Group Medicines Optimisation Pharmacist

Ms M Thacker RFL, Senior Pharmacist

Ms S Amin North London Partners, Lead Pharmacist

Mr S O'Callaghan UCLH, Medicines Safety Officer
Mr A Barron UCLH, Principal Pharmacist
Mr G Kitson WH, Deputy Chief Pharmacist

Apologies: Mr T Dean Patient Partner

Ms W Spicer RFL, Chief Pharmacist

Ms G Smith RFL, DTC Chair

Dr S Ishaq WH, Consultant Anaesthetist

Ms L Reeves C&I, Chief Pharmacist Prof A Tufail MEH, DTC Chair

Mr A Shah RNOH, Chief Pharmacist

Dr A Sell RNOH, DTC Chair

Ms R Clark NCL CCG, Head of Medicines Management (Camden)

Dr D Burrage WH, Consultant in Emergency Medicine

2. Meeting observers

Prof Sofat welcomed subject matter experts to the meeting.

3. New Medicine Reviews

3.1 Ronapreve and molnupiravir for non-hospitalised patients with SARS-CoV-2 and risk for severe COVID-19

The Committee considered an application for Ronapreve (casirivimab/imdevimab - two SARS-CoV-2 neutralizing antibodies administered by subcutaneous injection) and molnupiravir (an oral anti-viral agent) for non-hospitalised patients with COVID-19 who meet the inclusion criteria and none of the exclusion criteria as outlined in the NHSE/I Interim Commissioning Policy.

Pre-hospitalised patients are eligible for consideration if:

- SARS-CoV-2 infection (PCR confirmed within the last 72 hours); AND
- Onset of symptoms of COVID-19 within 7 days; AND
- The patient is in the 'highest' risk group as per the commissioning policy; AND
- Does not meet any of the exclusion criteria:
 - Patients requiring hospitalisation for COVID-19;
 - Patients requiring supplemental oxygen;
 - o Children weighing <40kg; and
 - Children aged <12 years.

Patients should initially be considered for Ronapreve (if aged 12 years and at least 40kg). If a neutralising monoclonal antibody (nMAB) is contraindicated, not recommended (due to efficacy against Omicron variant) or if administration is not possible, a 5-day course of molnupiravir may be considered in patients aged 18 or over (but not recommended in pregnant women due to risk of reproductive toxicity).

The evidence underpinning the use of Ronapreve was from Weinreich et al (2021), who conducted a randomised, double-blind, placebo-controlled study to compare the efficacy and safety of Ronapreve versus placebo in non-hospitalised patients with SARS-CoV-2 and at least one risk factor for severe COVID-19 (n=4,057). The primary endpoint, the proportion of patients with COVID-19 related hospitalisation or death by day 29, was significantly lower with Ronapreve 1.2g compared with placebo (1.0% vs. 3.2%; RRR: 70.4% [95%CI 31.6% to 87.1%]). Key limitations of the study were the exclusion of vaccinated patients, the adaptive design allowing for protocol amendments, the composite primary outcome being driven primarily by hospitalisation and the unknown efficacy against the Omicron variant.

The evidence underpinning the use of molnupiravir was from the MOVe-OUT Study [unpublished; data obtained from the FDA review]. MOVe-OUT was a randomised, double-blind, placebo-controlled study to compare the efficacy and safety of molnupiravir versus placebo in non-hospitalised adult patients with SARS-CoV-2 with symptom onset within 5 days and at least one risk factor for severe COVID-19 (n = 1,433). The primary endpoint, the proportion of patients with COVID-19 related hospitalisation for ≥24 hours for acute care or died from any cause by day 29, was significantly lower with molnupiravir compared with placebo (6.8% vs. 9.7%; RRR: 30%, ARR = 3.0% [95% CI 0.1% to 5.9%]). Key limitations of the study was that it was unpublished at the time of review, enrolment was stopped early based on interim results which were substantially different to the unpublished data (ARR 6.8%), the exclusion of vaccinated patients and the unknown efficacy against the Omicron variant.

In terms of safety, Ronapreve is associated with a risk of infusion and hypersensitivity reactions (including anaphylaxis), therefore should only be administered where management of severe hypersensitivity reactions is possible. Ronapreve may interfere with development of an immune response to COVID-19 vaccinates (and this risk is ongoing, owing to the long half-life).

The most common adverse reactions with molnupiravir were diarrhoea, nausea, dizziness and headache. The mechanism of action has the potential for mutagenicity and genotoxicity (for which the risk was deemed as low by the FDA), and potential for embryofoetal and bone & cartilage toxicity from animal studies (for which the risk remains uncertain). Therefore, molnupiravir is not recommended during pregnancy (with people of childbearing potential advised to use effective contraception). The mechanism

of action of molnupiravir (increasing mutational frequency in the viral genome) suggests a potential risk of changes to the viral spike protein, however the clinical and public health risk of this remains uncertain.

Ronapreve is a single 1.2g intravenous or subcutaneous dose which must be administered in COVID Medicines Delivery Units (CMDUs). Molnupiravir is administered as an oral 5 day course and will be offered to eligible patients via delivery to the patients' home.

The following items were discussed and agreed:

- The use of both Ronapreve and molnupiravir in the vaccinated population was cautiously accepted, acknowledging that data would continue to be collected in all patients (via ISARIC and the PANORAMIC study for molnupiravir).
- The Committee noted that Omicron was expected to shortly become the dominant variant in London. There is uncertainty in the efficacy data for both Ronapreve and molnupiravir against Omicron. The Committee were informed of another nMAB (sotrivimab), for which interim results demonstrate a significant reduction in hospitalisations and deaths (ARR 6%; RRR 85%; p=0.002) and pre-clinical studies suggest efficacy against the Omicron variant. The Committee agreed that any updates to the commissioning policy regarding sotrovimab should be reviewed via Chair's action
- Capacity may become an issue for CMDUs to deliver nMAB treatment due to original impact analysis using pre-Omicron population figures. Clarification over the use of molnupiravir as an alternative in this scenario is being sought from NHSEI.
- The Committee discussed the teratogenic potential of molnupiravir. The commissioning policy recommends 'effective contraception' for the duration of molnupiravir and for four days after. Barrier methods are not considered an appropriate form of contraception. People of childbearing potential who are not already on effective contraception, should be advised to abstain. The Committee discussed logistical challenges of pre-treatment pregnancy testing, and agreed to seek clarity from NHSEI regarding requirement for pregnancy testing and patient information.

In summary, the Committee agreed to add Ronapreve and molnupiravir to the NCL Joint Formulary for non-hospitalised patients with SARS-CoV-2 and a risk factor for severe COVID-19, in line with the NHSE/I commissioning policy.

Decision: Approved

Prescribing: Secondary Care - COVID Medicines Delivery Units (CMDUs) only

Tariff status: NA

Funding: Free-of-charge – commissioned via NHSE/I

Primary and secondary care Fact sheet or shared care required: No

Post-Meeting Update (16th December 2021): Two CAS alerts were published on 16th December with updates to the commissioning policies for COVID-19 treatment. With evidence that the efficacy of Ronapreve may be compromised against the increasingly prevalent Omicron variant, the following amendments to NHSE guidance were made:

- Non-hospitalised high-risk patients are recommended to be considered for sotrovimab in place of Ronapreve as the first line option as per commissioning criteria.
- Patients with hospital onset COVID-19 are eligible for Ronapreve if genotyping is available and confirms a non-Omicron variant, otherwise sotrovimab may be considered in line with the commissioning criteria.
- Patients hospitalised with acute COVID-19 should only be considered for Ronapreve if patients are infected with a non-Omicron variant OR the local hospital prevalence of the Omicron variant is <50%.

These updates to the use and criteria for nMABS and antivirals for COVID-19 was approved via Chair's action in line with the NHSE commissioning policies.

4. Next meeting

20th January 2022