

BHIVA guidance for the management of adults with HIV on antiretroviral treatment (ART) during the coronavirus pandemic

HIV services have a key role to play in the NHS response to coronavirus and this must be planned. In response to pressures on the NHS, the elective component of our work may be altered. However patients will continue to need care & we should seek the best local solutions to continue their proper management while protecting resources for the response to coronavirus. In addition, we also need to consider the possibility that services may be compromised due to a combination of factors including staff sickness and decreased laboratory capacity.

All BHIVA statements related to COVID-19 are available on the website:

<https://www.bhiva.org/Coronavirus-COVID-19>

High risk patient groups

In general, government advice regarding social distancing and shielding should be followed (<https://www.gov.uk/government/publications/covid-19-guidance-on-social-distancing-and-for-vulnerable-people/guidance-on-social-distancing-for-everyone-in-the-uk-and-protecting-older-people-and-vulnerable-adults>).

There is no evidence to date that people with HIV but without other risks are at increased risk of acquiring or developing complications from COVID-19. The latest evidence is available in the regularly updated joint British HIV Association (BHIVA) and European AIDS Clinical Society (EACS) statement.

BHIVA and EACS advise that people who do not have controlled HIV on treatment or who have an impaired immune system (CD4 <200) may be at increased risk of severe disease. Government advice for this group is to be particularly stringent in following social distancing measures (see link above).

Additionally BHIVA and the Terrence Higgins Trust suggest people with significant immune suppression (CD4 <50 or recent opportunistic illness) may be extremely vulnerable. Please ensure people who meet these criteria receive the appropriate advice and can access the support they are entitled to:

<https://www.bhiva.org/COVID-19-and-shielding-advice-for-HIV-clinicians-GPs-and-people-living-with-HIV>

Maintaining antiretroviral (ART) supply and provision

ART should not be interrupted. NHS England and NHS Improvement and HIV providers will continue to work together to maintain both the continuous provision and effective use of ART, thereby preventing avoidable harm, including:

- complications of immune suppression, including opportunistic infections
- non-HIV related complications associated with treatment interruption
- onward transmission of HIV
- development of drug resistance and limitation of active drug options.

Antiretroviral supply

NHS England and NHS Improvement are monitoring the supply and demand of HIV medicines at a national level, working closely with suppliers and putting in place necessary processes to ensure supply is maintained.

HIV providers will need to ensure they continue with current prescribing and dispensing arrangements to minimise the impact on any supply shortages.

If providers experience any issues with supply, they must in the first instance contact their local pharmacy procurement team, who will if necessary contact the regional pharmacy procurement specialist to resolve an issue.

Leadership

- Existing HIV regional networks should develop simple mechanisms to flag, in real time, any issues related to ART prescribing/provision or basic HIV care.
- The HIV Clinical Reference Group (CRG) will oversee treatment policies and respond to issues not been resolved at regional level. Issues can be raised with the CRG by emailing: ENGLAND.npoc-bloodandinfection@nhs.net

Categories of people receiving ART: prescribing and monitoring

Treatment of COVID-19

- The HIV CRG **recommends against using any antiretrovirals in the treatment of patients with COVID-19 infection** except within registered clinical trials.
- Lopinavir/ritonavir has been used to treat patients with COVID-19 but should only be used within the context of a clinical trial. The first reported randomised

trial showed lopinavir/ritonavir had no benefit over standard of care alone in hospitalised adults with severe COVID-19.¹

- The Intensive Care Society and BHIVA have produced some guidance to support the NICE COVID-19 rapid guideline for critical care in adults (<https://www.nice.org.uk/guidance/NG159>), acknowledging the need to consider co-morbidities and underlying health conditions in all cases. The recommendations aim to support appropriate decision-making around escalation of care for people with HIV and safe maintenance of HIV therapy, including common issues. <https://www.bhiva.org/Coronavirus-COVID-19>

Antiretroviral maintenance

- Most people receiving ART are virally suppressed.
- Usual efficacy and safety monitoring is six-monthly for people who are virologically stable on ART. In the extenuating circumstances of COVID-19 this can reasonably be deferred until next planned follow-up for most in the context of good adherence, no new tolerability/toxicity concerns and no drug–drug interaction issues.
- No ART switch should be undertaken unless absolutely necessary, e.g. pregnancy, virological failure, significant tolerability/toxicity or major drug–drug interactions. ART should not be stopped or switched without discussing with the patient’s HIV specialist.
- Monitoring should only be undertaken if it will change short-term management. All other non-essential monitoring should be deferred.
- To reduce workloads for virology labs, viral resistance testing should be limited to:
 - baseline testing of new diagnoses
 - people with **confirmed** (two consecutive tests) viraemia >200 copies/mL on a low genetic barrier regimen (pre-emptive switch to a high barrier regimen can be undertaken before results are available if clinically appropriate to do so)
 - people reporting good adherence with new viraemia >1000 copies/mL on a high genetic barrier regimen.
- To protect medication supplies continue with usual duration prescriptions (typically six months) unless otherwise directed:

¹ Cao B et al (2020) A trial of lopinavir-ritonavir in adults hospitalized with severe COVID-19. [N Engl J Med](#) 2020 Mar 18.

- do not recall patients early: where patients are concerned about running out of medication or being unable to access the clinic, a prescription for deferred dispensing can be provided – but medicines not dispensed more than 1 month before their scheduled appointment
- do not prescribe for longer than the current prescribing protocol
- if a patient **must** receive their medication earlier than usual, it should be for an appropriately shorter duration.

Where homecare companies do not have capacity for new sign-ups individual trusts will manage non-homecare prescriptions according to their own arrangements, including collection from pharmacy, Royal Mail and courier services.

First-line antiretroviral initiation

- First-line ART decisions are usually based on several factors, including viral characteristics, patient characteristics, preferences and cost.
- To minimise the clinic visit and monitoring requirements around ART initiation, we have made pragmatic 1st line prescribing recommendations which can be followed until COVID-19 contingencies are suspended.
- This advice **does not override** existing national policies and regional algorithms but we suggest you interpret this 1st line prescribing advice, and how your modified MDT arrangements meet current requirements, in the patient-focused, pragmatic manner you already do.

Limiting factors

- **Access to baseline resistance testing:** it is highly likely that capacity to process HIV resistance tests will be limited. This means that there may be increased turnaround times, restricted or even suspended testing because of staffing and reagent shortages and need to divert testing platforms to COVID-19. It is possible that HIV viral load testing will be similarly restricted. **This necessitates use of a regimen with a high barrier to resistance**, ie based on a protease inhibitor or second-generation integrase inhibitor.
- **Appointments:** we need to minimise patient visits for medications and tests. This necessitates use of a well-tolerated regimen with high efficacy, a high barrier to resistance and low risk of toxicity. Protease inhibitors are associated with a higher risk of short-term toxicity (eg rash, hepatotoxicity),

long-term toxicity (eg renal impairment, cardiovascular disease) and tolerability issues (eg gastrointestinal adverse events).

- **Tests:** we need to minimise viral load and safety monitoring – high barrier regimens and non-tenofovir-DF (TDF) regimens are most suitable for lower frequency monitoring (TDF requires baseline and regular renal monitoring at initiation). **This necessitates use of a well-tolerated, non-TDF regimen with high efficacy, a high barrier to resistance and low risk of toxicity.**
- **Advice:** pharmacists do not have the capacity to provide usual detailed counselling about drug–drug interactions, eg cations, CYP-metabolised drugs. HIV teams do not have the capacity to offer usual adherence counselling and support. **This necessitates use of a regimen with few major drug–drug interactions (thus excluding protease inhibitors which, as boosted agents, are associated with numerous interactions some of which can cause serious harm) and ideally a single tablet regimen without food requirements.**

Suggested first-line ART algorithm

- ART options should still be discussed and, where necessary, tailored according to patient needs and requirements.
 - **Recommended:** bictegravir/tenofovir–alafenamide/emtricitabine (Biktarvy) unless contra-indicated due to:
 - drug-drug interactions.
 - new diagnosis in a pregnant woman (follow BHIVA guidelines).
 - **Alternative:** whichever alternative regimen is clinically appropriate and acceptable to the patient can be used if bictegravir/tenofovir–alafenamide/emtricitabine are unsuitable or not tolerated, based on individual patient characteristics and the capacity of a service to provide advice and monitoring.
- **Prescribing and monitoring:**
 - Two-month initial supply with recommended (not mandatory) viral load at one month
 - additional testing based on patient characteristics and regimen choice
 - one-month phone check, additional four-month supply.

MDT review

- ART initiated during COVID-19, based on modified MDT arrangements, should be reviewed at full MDT as soon as this is practical.