

Draft points to consider on implications of Coronavirus disease (COVID-19) on methodological aspects of ongoing clinical trials

Written by the EMA Biostatistics Working Party

BBS virtual seminar on Impact of COVID-19 on clinical trials





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Content

- Coronavirus disease and EMA's response to the pandemic
- Draft points to consider on implications of Coronavirus disease (COVID-19) on methodological aspects of ongoing clinical trials
- Summary and Next Steps



Coronavirus disease (COVID-19) and EMA's response

- https://www.ema.europa.eu/en/human-regulatory/overview/public-health-threats/coronavirus-disease-covid-19
- The European Medicines Agency (EMA) is contributing to global efforts to save lives during the COVID-19 pandemic by expediting the development and approval of safe and effective treatments and vaccines, supporting the continued availability of medicines in the European Union (EU), and providing reliable information to patients and healthcare professionals.
- Coronavirus disease (COVID-19) is an infectious disease caused by a newly discovered coronavirus.
- On 30 January 2020, The World Health Organization (WHO) <u>declared the outbreak a public health</u> <u>emergency of international concern</u>. On 11 March 2020, WHO <u>characterised COVID-19 as a pandemic</u>.
- There are currently **no authorised vaccines or treatments** in the EU to prevent or treat COVID-19. However, there are ongoing <u>clinical trials</u> evaluating potential treatments.
- The <u>COVID-19 EMA pandemic Task Force</u> is the main tool of EMA and the <u>European medicines regulatory network</u> for enabling EU Member States and the European Commission to take **quick and coordinated regulatory action** during the pandemic.



EMA's response to COVID-19 pandemic

<u>www.ema.europa.eu</u>



Guidance for medicine developers and companies on COVID-19

- •Early support for medicine and vaccine developers
- •Advice for sponsors of clinical trials for COVID-19 treatments and vaccines
- •Guidance on regulatory expectations and flexibility
- •Advice for sponsors of clinical trials affected by the pandemic

Guidance is available for clinical-trial sponsors on how they should **adjust the management of clinical trials** and participants during the COVID-19 pandemic. This covers concrete changes and protocol deviations for dealing with extraordinary situations, such as the need for isolating participants, limited access to public spaces and the reallocation of healthcare professionals:

Good clinical practice: Guidance on clinical trial management during the COVID-19 pandemic

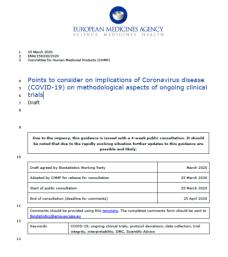
Guidance is also available on the **actions** that sponsors of affected clinical trials should take to help **ensure the integrity of their studies** and the interpretation of the study results while safeguarding the safety of trial participants as a first priority:

Implications of coronavirus disease (COVID-19) on methodological aspects of ongoing clinical trials

In line with this guidance, EMA will be flexible and pragmatic during the assessment of affected <u>clinical</u> <u>trial</u> data submitted to the Agency as part of <u>marketing authorisation applications</u>.



Draft PtC on implications of Coronavirus disease (COVID-19) on methodological aspects of ongoing clinical trials



25 March:

- Draft agreed by Biostatistics Working Party (BSWP)
- Adopted by the Committee for Medicinal Products for Human Use (CHMP) for a 4-week public consultation

25 April:

End of public consultation: Comments from 30 stakeholders were received

28 May:

Release of updated Points to Consider?



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Motivation

- Foreseeable that the COVID-19 pandemic will interfere with the conduct of many ongoing trials, also with the collection, analysis and the interpretation of clinical trial data
 - Implications on clinical trials are manifold
 - No general advice how to handle them
 - Thorough case-by-case assessment is needed
- But... in this document BSWP highlights major points that Sponsors could take into consideration in case their trials are affected



Patient safety first

- Patient safety is paramount, regardless of potential consequences for an ongoing trial
- Ethical mandate to proceed with a trial as long as there is an opportunity to benefit drug development and patient care
- Integrate all available knowledge: ethical, medical, methodological aspects to be considered in decisions whether to continue, pause or stop the trial



Systematically capture deviations and record related reasons

"Pre-plan how systematic deviations resulting from the measures and individual decisions related to the COVID-19 pandemic are captured and record related reasons."

- Such measures and decisions were not planned before the start of trial
 - Record ALL available information; 'pre-plan during trial' is better than react at end of trial
- Information will be valuable to assess the potential impact on trial outcome
- Better understand when trial data might be affected by imposed measures
- No specific guidance on how, Sponsor is free to choose but a systematic way will facilitate better analysis, assessment, interaction, etc.



Potential impact on external validity – what else to record?

"The external validity of trial outcomes may be affected by the presence of different trial populations. (...) Measures taken in relation to the COVID-19 pandemic may interfere with study treatments."

- Population: patients present in trial before, during and after end of pandemic
- Sufficient amount of information on the following aspects is needed to study the impact on the treatment effect:
 - pandemic-related measures
 - whether trial patients or trial conduct were affected
 - subpopulations of exposed / non-exposed, and infected / non-infected patients



Risk assessment of impact of COVID-19 on ongoing trials

"Assess the impact and risk of COVID-19 potentially affecting trial participants directly and of COVID-19 related measures affecting clinical trial conduct on trial integrity and interpretability."

- Not an unplanned formal interim analysis for efficacy!
- Analysis of the accumulating trial data
 - **Evaluate the implications** on recruitment, loss of patients during the trial, ability to record data and ability to interpret the treatment effect.
- Most investigations can be covered by usual trial monitoring
- Based on aggregate and blinded data



Data Monitoring Committees (DMC)

- In some cases a more thorough analysis may be warranted
- To preserve trial integrity, it should be conducted by an (independent) DMC
- Additional competencies might be needed in an already established DMC
- Establishment of DMC could be considered if necessary



Potential measures to address pandemic impact

- How to re-start usual trial operations
- Additional measures when completing the trial after the pandemic
 - e.g. validation of outcomes that were measured differently
- Adjust trial sample size
- Additional analyses to understand the treatment effect as estimated in the trial
 - To be included in the Statistical Analysis Plan
- Deal with any identified potential sources of bias
 - E.g. missing values, newly identified intercurrent events, other unforeseeable required changes to trial elements



Next steps

- Updating the points to consider thanks to all who commented !!!
- Further changes expected
- Interaction with stakeholders
- Continuous scientific discussion expected



Summary

- Convincing scientific reasons needed to implement changes
- Consult COVID-19 related guidance
- Discussion with relevant competent authorities is encouraged (e.g. through Scientific Advice) early in the process

Record, report, assess and seek advice before reacting



Any questions?



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