

Clinical Trial Related Aspects during COVID

Case study of an Alzheimer's disease (AD) international trial successfully initiated during the first wave of the COVID pandemic

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Organization of Presentation

- ▶ Introduction
- ▶ Background and setting (US and International)
- ▶ Shifting planning given the emerging situation
- ▶ ... and serendipity sometimes assists
- ▶ Early recommendations for enhanced site activities [re:COVID]
- ▶ Site Survey on COVID related practices: US and UK/EU site perspective
- ▶ Corollary: AD and COVID interactions
- ▶ Summary

Introduction: We are working in an evolving situation: the US has lead the resumption of trials and non-US countries remain in flux

- ▶ As of Jan. 25, 2021, GlobalData found that 929 disrupted trials have resumed and, out of these, 71.9% are currently recruiting participants, 12.8% have completed recruitment but are still ongoing and 0.5% of trials have yet to start recruiting subjects.
- ▶ “There is a slight, steady increase of trials resuming activity, with the initial general trend showing a gradual increase in the overall percentage of trials for each trial status,” said Priya Nair, a trials intelligence analyst at GlobalData.
- ▶ “However, between December 23 and January 25, ongoing recruiting trials decreased from 74.6% to 71.9%, and completed trials increased from 10.6% to 12.8%. The majority of trial disruptions can be attributed to patient safety measures, strict lockdown requirements, social distancing procedures and the high demand on medical professionals to treat COVID-19 patients.”
- ▶ Geographically, the U.S. has the highest number of resumed trials at 87.5%, followed by the U.K. at 10.8% (which has issued national lockdowns since December amid its new strain), Spain at 9%, France at 8.8% and Germany at 8.1%.
- ▶ This was not the situation in early 2020 where the majority of AD trials were placed on hold.....

The feeling of initiating an Alzheimer's disease trial during the first wave:

When the Sponsor instructions are:

“When a place cannot be passed, it necessary to pass. It is precisely that.” (From A.F. Mummery)



Background and Setting

- ▶ Rescue study
 - ▶ Many site changes necessary, issues with TMF transfer from previous partner, etc.
- ▶ 5 Amendments (and more during this period)
- ▶ EMEA ruling necessitated changing primary outcome
- ▶ Increased geographic distribution due to increased patient numbers
- ▶ Essentially a “re-start” in January 2020
- ▶ Directly into the headwinds of COVID-19



Shifting planning....

- ▶ Sites were highly motivated both from a patient and a financial perspective
- ▶ Sponsor wished to continue to move forward - we were able to ensure enhanced safety procedures were put in place and documented before re-engaging the sites
- ▶ Excellent previous relationship with many sites helped in several ways: lines of communication open, transparent exchange of information from both parties.
- ▶ Some sites, as soon as able, wished to resume activities (after several months of hiatus): these were prioritized
- ▶ Also prioritized were activities such as site readiness, a highly efficient path when sites were able to resume activities.

...and serendipity

- ▶ Almost no other AD trials being run simultaneously, we hit a “sweet spot”
- ▶ Initiated when several other large trials were ending or had recent failures (particularly related to amyloid based trials)
 - ▶ Aducanumab, gantenerumab, solanezumab [Caveat: this has recently changed]
- ▶ From the patient and family perspective, the neurodegeneration of AD is continuous, the later the intervention, the less likely it might prove effective
- ▶ Families of AD patients, when circumstances permitted, wished to continue treatment in the trial
- ▶ Retention was enhanced (better than predicted in most AD trials given the circumstances)



Enhanced site activities

- ▶ Required detailed COVID protocols put in place; site and patients must feel entirely safe. Used assisted/private transportation when necessary
- ▶ Allowance for remote assessment of (primary) outcome scale when necessary
- ▶ Adapted remote site visit: luckily all site qualification visits were completed before major lockdown occurred.
- ▶ Informed Consent: due to data protection/privacy rules the IC review could only be held onsite and this review remained incomplete in some countries
- ▶ Remote visits largely occurred in the US vs the EU. When COVID rates sufficiently decreased after first wave, a number of on site visits were able to be conducted. Sites and monitors remained in constant communication and remained flexible
- ▶ SDV has occurred in the US, less so in UK/EU sites. Remote monitoring visits remained in place and utilized dependent upon country/state open status
- ▶ Grant payments were kept exceedingly timely which kept sites in “positive cash flow” state
- ▶ From Jan 2020 to Jan 2021, the US and Poland were outstanding contributors of patients

Survey queries (sent to top enrollers)

- ▶ *What changed in your practices between pre and mid COVID periods?*
- ▶ *What do you attribute your successful recruitment to during COVID?*
- ▶ *What do you attribute your successful retention to during COVID?*
- ▶ *Were patients/family members first asked if they were still willing to come to clinic visits?*
- ▶ *Were the enhanced safety protocols at site explained to them before they agreed to continue? What was the generally the outcome of this conversation?*
- ▶ *Out of 100% of your patients, how many declined in % to participate due to COVID?*

Survey results: (10 sites) 1/3 slides

- ▶ *What changed in your practices between pre and mid COVID periods?*
 - ▶ US(4):Phone “screen” prior to visit to assess potential COVID symptoms, upon arrival at site vitals taken first (no fever) before proceeding; appointments spread out, essential staff only, longer procedural time for sanitizing continuously; halted new screens temporarily; communication of new procedures with patient/partners
 - ▶ UK(1):Careful scheduling of visits; all gov.UK and PHE guidelines and CQC requirements followed
 - ▶ SP(2):Home visits established when permitted, telephone visits when possible, more time for in-clinic visits, avoidance of waiting outside hospital/clinic
 - ▶ IT(1):Reduced number of visits, as much remote data collection as possible
 - ▶ FR(1):Increase in social distancing, following local governmental guidelines, otherwise, no extreme changes in how patients followed
 - ▶ POL(1):Fewer patient visits, PPE, social distancing, sanitizing regularly
- ▶ *What do you attribute your successful recruitment to during COVID?*
 - ▶ US:Quick adaptation to circumstances, more reliance on advertising (costing more), outreach became online vs direct, greater funnel for cancellations: more effective screening; positive experiences shared with others, transparency and precautions taken
 - ▶ UK:Communication of safety precautions, flexibility of Sponsor for private transportation
 - ▶ SP:Sensation of safety, time between visits extended; “Neurodegeneration does not stop because of COVID”
 - ▶ IT:Collaboration from referring clinics to AD specialists
 - ▶ FR:No major changes
 - ▶ POL:Continuous open status of clinic and no break in patient visit flow

Survey results:2/3

- ▶ *What do you attribute your successful retention to during COVID?*
 - ▶ US:Continual attention to patient safety and education and safe; no crowding or waiting for appointment; transparency of safety process; attention to subject comfort
 - ▶ UK:Compliance to all new guidances shared with patients, reassurance and communication open; use of private transportation
 - ▶ SP:Continual follow-up at with patients, direct phone contact with nurse 24/7; disease awareness
 - ▶ IT:NA
 - ▶ FR:Stability of clinic and procedures
 - ▶ POL:Continual contact with patient/partners
- ▶ *Were patients/family members first asked if they were still willing to come to clinic visits?*
- ▶ [All countries had similar replies, therefore bundled]
 - ▶ Many instituted 2 step confirmation process: Prior to each visit, patients called and reconfirmed willingness and appropriateness to continue, then 24 hours prior to visit, COVID symptom checklist collected
 - ▶ Continual education about social distancing, isolation practices and avoidance of unnecessary travel and contact comforted patient/partner regarding safety precautions

Survey Results (3/3)

- ▶ *Were the enhanced safety protocols at site explained to them before they agreed to continue? What was the generally the outcome of this conversation?*
 - ▶ US: Yes, thoroughly and open communication tantamount to continued participation; gratitude for explaining so carefully the new procedures although more time needed overall
 - ▶ UK: Yes and many patients expressed their reassurance in the process
 - ▶ SP: Yes, patient felt at ease in their safety at the clinic
 - ▶ IT: Yes, simple explanations were helpful and accepted
 - ▶ FR: Generally little change in procedures
 - ▶ POL: Yes, positive feedback on attention to their safety
- ▶ *Out of 100% of your patients, how many declined in % to participate due to COVID?*
 - ▶ US: 2-10%; new screens decreased by 35% for several months then returned to normal
 - ▶ UK: 10-12%
 - ▶ SP: 0%
 - ▶ IT: 25%
 - ▶ FR: 0%
 - ▶ POL: 10-15%

Corollary: AD and COVID interactions

- ▶ Chronic systemic inflammation is considered to be of the underlying pathogenic mechanisms involved in AD
- ▶ The inflammation related to viral infection significantly worsens tau-related pathology and results in spatial memory deficits in animal models
- ▶ In these models, the hippocampus is especially vulnerable to respiratory viral infections; infection with influenza significantly affects LTM.
- ▶ Cytokine responses to viral infection are significant and possibly lead to the over-production of pro-inflammatory cytokines
- ▶ In the presence pro-inflammatory cytokines, microglial cells lose their capacity to phagocytize B-amyloid (overproduction of B-amyloid being a hallmark of AD)
- ▶ Will COVID infection hasten neurodegeneration in those who are at the tipping point of AD and accelerate the AD cascade in the diagnosed?

Summary

- ▶ Covid-19 is still not fully behind us; Every country has/had distinct responses to the outbreak in their own manner
- ▶ Overall, the dedication and determination of sites and patients with AD persevered throughout the initial phases of the pandemic
- ▶ E.g., “Neurodegeneration does not stop because of COVID” summarized that patients/caregivers as participants were willing to move forward with AD trials (in an early AD population)
- ▶ Clinical AD practices have changed to more remote interactions worldwide
- ▶ There is a negative interaction with COVID and the AD populace