First speaker is our host, Dr. Nandini Menon. Dr. Manu could not make it to the conference and she'll be speaking to us on MU-Antanib plus chemo with or without Lazar Tannib. In Egypt, our mutated NCLC. So good morning everyone. I'm just filling in for Dr. Manu. And this is the Mariposa 2 study that I'm going to discuss in the next maybe seven to ten minutes. So we all know that Osmatanib and now with the new data of Laura 2 Osmatanib with chemo therapy is considered one of the standard treatment options. But in 2023, the Mariposa study also showed an alternative for treatment options using MU-Antanib which is a bi-specific monoclonal antibody targeting EGFR and MET in combination with a third generation TKI called Lazar Tannib. Now we all know that once you fail an Osmatanib in second line setting, we in the past didn't have good drugs in the space and this was the study which evaluated what happens to patients who progress on Osmatanib and how do they benefit with this regimen. So we, as I just mentioned, EJFR and MET alterations are known to be the major causes for resistance to Osmatanib, especially MET amplification. So AMI-Vantamab is a bi-specific antibody. It binds to both the EJFR and the MET ligands. It also has multiple other mechanisms including immune cell directing activity and modulating the immune responses which lead, I mean, add to its advantage and Lazar Tannib-like Osmatanib is a highly CNS penetrant third generation EJFR, TKI. So we have data from the chrysalis in the second line. We have MET-Posa in the first line and now we are looking at MET-Posa too. So this study was AMI-Vantamab Lazar Tannib chemotherapy and AMI-Vantamab chemotherapy compared to this control arm of chemotherapy. Now initially when the study was designed, the AMI-Vantamab Lazar Tannib chemotherapy and then the AMI-Vantamab chemotherapy arm was added actually to look at what components of this triplet or quadriplet regimen was contributing but eventually they modified it to allow dual primary endpoints that is to look at comparison of AMI-Vantamab Lazar Tannib chemotherapy versus chemotherapy and chemotherapy as a control and AMI-Vantamab chemotherapy versus chemotherapy. So they tested both these new combinations with chemotherapy having a dual primary checkpoint. So this was the primary end point of the study. This was the same MET-Posa to which was presented in 2023 and I'll be presenting it's another update and this was published in 2024 in Anil's of oncology. These were the inclusion exclusion criteria. So advanced metastatic EGFR mutant NSCLC with the standard EGFR mutations

exon 19 deletion or L858R. The key criteria is they should have progressed on Osmotanib as the most recent line either in the first line or the second line. Fit patients of PSO to 1. This study allowed brain mats if they were stable and adequately treated, unstable untreated brain mats were not taken but stable brain mats were allowed and these were the stratification factors at what line they took Osmotanib race and presence of brain mats. So the regimen included Osmotanib at 1400 milligrams weekly for the first four weeks and then 1750 every three weeks which was the AMI-Vantamab group. Lazar Tannib was an oral tablet it was given at 240 milligrams. Now initially in this arm everything was clapped together and all were given concurrently but they realized that Lazar Tannib and chemotherapy toxicity is especially neurological, vacuum elective so they then modified it to have Lazar Tannib sequentially. So some of the patients in this study in the AMI-Vantamab Lazar Tannib chemotherapy arm received Lazar Tannib sequentially. So these were the baseline characteristics, well balanced especially for the key stratification factors including the brain mats and race and other things and including for the type of EGFR mutation. Now we look at the results. So first we look at the objective response rates and as you can see in the second or third line EGFR post, EGFR mutin lung cancer post Osmotanib failure the combination of these drugs that is AMI-Vantamab Lazar Tannib with chemotherapy or AMI-Vantamab plus chemotherapy had a remarkable objective response rate of around 64% in the second or third line setting whereas chemotherapy only gave a objective response rate of 36%. So the primary endpoint was blinded central review of these responses and if you look at it, both AMI-Vantamab and Lazar Tannib did better than chemotherapy. So these were dual primary endpoints. So AMI-Vantamab Lazar Tannib and chemotherapy combination, the quadriplet of course had a better PFS of 8.3 months. The AMI-Vantamab chemotherapy had a 6.3 month PFS and chemotherapy alone was 4.2. This was something similar to the investigator in the SSPFS. The only difference was when the investigators assessed they had a similar PFS for the AMI-Vantamab chemo and the AMI-Vantamab Lazar Tannib chemo. So again, what I wanted to highlight is all the subgroups that they've stratified for including brain meds, which is one of the important prognostic factors, the type of mutation, what line patients received

Osmotanibre's gender age. All categories showed that whether you, when you added AMI-Vantamab chemotherapy or you added AMI-Vantamab Lazar Tannib to chemotherapy, definitely there was a benefit. Now the important thing what I want to highlight in this Mariposa 2 study is the intracranial effect. Now when they designed the study, AMI-Vantamab was put, was thought that it's a monocranal antibody does not cross the blood brain barrier and that was a rationale of adding a CNS penetrant drug such as Lazar Tannib to have intracranial activity. But what you can see in this Kaplan-Mayer is the intracranial progression survival with AMI-Vantamab chemotherapy and AMI-Vantamab Lazar Tannib chemotherapy was similar. So which even the investigators proposed that the probable reason, which is not what they thought when they designed the study, but the probable reason is AMI-Vantamab, despite not probably physically crossing the blood brain barrier, may be having effects with immune modulation, other mechanisms other than directly targeting the EGF and met and having an intracranial control rate comparable to the group where AMI-Vantamab and Lazar Tannib was combined with chemotherapy. Again, they did a sensitivity analysis to look at whether radiation was the reason for these patients not progressing. So they had a group of people who had received radiotherapy and they had included those who did not receive radiotherapy. And even in the group of patients who had no prior brain artery, there was this consistent benefit scene, which goes to say that using AMI-Vantamab in combination with Lazar Tannib and chemo or AMI-Vantamab plus chemo alone, that itself controls CNS disease irrespective of whether the patient had received radiotherapy or not. So this was what was the early interim overall survival. They seem to be a trend, but it is not significant and that was what was published. This is the adverse event. We know AMI-Vantamab has significant toxicities and like a lacan had discussed, a sub-cute AMI-Vantamab to decrease the toxicity rate because infusion reactions leading to issues in more than 50% of patients and a lot of skin toxicities which are an issue. So that was what was the concern. What otherwise was seen was none of the toxicities that were compared to death, but there was some discontinuations of treatment in all these arms and you know the more you combine, the more we expect toxicities to add and to discontinue treatment. So if you look at the quadripletam,

there was around 10% who had to discontinue because of toxicity. So consistent PF is benefit across all groups, higher objective response rate, longer duration of response, good intracranal PFs, excluding the fact, I mean even if you take into consideration for the fact of patients who have received radiotherapy, first presentation when this paper was published in TerimOS, we did not know whether it was significant or not, this seemed to be a trend. Of course because of the hematological AEs and the combination of AMI-Vantamab, Lazetamab and chemotherapy having more neutropenia, they modified it and when they presented the first data, there was a significant number, nearly half had received sequential Lazetanib after completing the pemitrixet carboplatin regimen. So that's what we need to keep in mind. The second abstract of the presentation is a small second interim overall survival analysis of the same study. Now this focused on AMI-Vantamab plus chemotherapy versus chemotherapy and because they got that trend when they did the initial analysis that they might be a benefit in OS, so they looked at for the second interim analysis to look at the OS benefit, when the data matured whether it really was there. So again, if you look at this, this is a longer follow up and this was at 18 months landmark analysis and you can see 50% of those who received AMI-Vantamab plus chemotherapy, we are not discussing the Lazetanibam here and compared to 40% of patients who received chemotherapy were alive at 18 months. Again, the time to treatment discontinuation was longer with the combination of AMI-Vantamab chemotherapy, time to developing a symptomatic progression was longer and time to subsequent therapy was longer. So basically AMI-Vantamab plus chemotherapy when you compare to chemotherapy alone seem to have better outcomes and this trend to overall survival seems to be sustained. We need to see for a longer follow up for its final impact. Here the hazard ratio was 0.73 and it was statistically significant, but probably a longer follow up, we also need to see what happens over time. Now this is a diagram, I don't want anyone to get confused what this bar graph shows is the number of patients who receive various therapies after failure on Mariposa 2. That means in the third or fourth line setting in EGFR mutated lung cancer who progressed on Ozetanib and then progressed on the Mariposa 2 regimens.

So in AMI-Kimo and the chemo arm and what they showed is that of course, fewer patients had this treatment in their fewer patients progress so that is different, but patients in the third line setting often we tend to re-expose them to previously use therapies and what they wanted to show is that if you want to get a better survival you should maximize the outcome in the second line setting. So if the patient has failed on first line Ozetanib give him the best treatment in the second line because subsequently we may not have effective therapy. So to conclude both the abstracts, this was the conclusion of the second interim analysis that Mariposa 2 is still ongoing final Ozetanib but whatever they found on the second interim analysis for the AMI-Ventam app chemo arm versus chemo therapy, there was improvement in the time to symptomatic progression, treatment, time to treatment discontinuation, subsequent time to subsequent therapy and maybe the trend to Ozetanib was sustained. So probably it's a signal that that might be a promising Ozetan and you may have a positive Oz outcome also. So what it overall shows is that AMI-Ventam app plus chemo therapy, or AMI-Ventam app Lazetanib plus chemo therapy despite the toxicity definitely has a role in the second line or third line setting after progression on Ozetanib. In all parameters including progression free survival, time to subsequent treatment, CNS disease control, the challenge is what happens to Oz whether it will be significant and considering the toxicities, especially cutaneous and infusion reaction, what is the quality of life? So just to summarize, this is one of the regimens which has in a randomized study shown to be effective in the post-Ozetanib space. We talked about the subgroups that benefited. We also talked about its CNS activity even if you extruded Lazetanib and even in patients who had not received radiotherapy for brain meds. After modification and making Lazetanib sequential, the quadriplette regimen seemed to be better tolerable but yes, toxicity is a concern and we still need some data on the liquid biopsy and the CTDNA in this setting. So with this I'll conclude and thank you for the patient here. Thank you, Nandini.