GENERATION HD2 Clinical Trial Overview (BN42489)

[Insert event/discussion title] [Insert presenter's name]

[Insert presenter's institution/affiliation]

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Tominersen is an investigational molecule designed to target the underlying genetic cause of HD



Abbreviations: HTT=huntingtin; mRNA=messenger riboneucleic acid. Tominersen is an investigational (not approved) medicine that is being studied for the treatment of people with HD.





ANTISENSE DRUGS

Direct delivery to the central nervous system



Intrathecal injections

- This procedure is commonly called a lumbar puncture or 'spinal tap'.
- The drugs injected into the lower back in the space around the spinal cord (an intrathecal injection) and travels to the brain in the cerebrospinal fluid.
- Cerebrospinal fluid is a clear fluid that surrounds the brain and spinal cord.



Image adapted from <u>www.cancer.gov</u>



10-Year HD Programme History



Tominersen is an investigational (not approved) medicine that is being studied for the treatment of people with HD.





GENERATION HD2: Testing a refined hypothesis

GENERATION HD1 exploratory <i>post hoc</i> findings	Focused population	Lower and less frequent dosing	Safety, biomarkers and efficacy trends						
Potential benefit in younger adults with manifest HD with less disease burden and who received lower tominersen exposures	GENERATION HD2 will focus on adults with prodromal (very early subtle symptoms) or early manifest HD (aged 25–50 years and CAP score of 400–500)	GENERATION HD2 will investigate lower and less frequent doses of tominersen	Study evaluates safety, biomarkers and efficacy trends of two different doses of tominersen in younger adults with less disease burden						



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5

Overview of GENERATION HD2 study

A study to evaluate the safety, biomarkers and efficacy trends of **two dose levels of tominersen** in participants with **prodromal (~20/arm) and early manifest (~100/arm)** HD versus placebo



Tominersen is an investigational (not approved) medicine that is being studied for the treatment of people with HD.





Key aspect of GENERATION HD2 study: "Common close" design



- Minimum 16-month treatment period (7 clinic visits with 4 interim phone consultations)
- The common close design means that the blinded treatment and study assessments continue for all participants until the last participant completes 16 months of treatment
- Decision about open-label extension will be data driven (e.g. appropriate dose and safety determined in study)

* Length of blinded treatment period is dependent on when the participant is randomised; † Data-dependent planned study; pending approvals from clinical trial authorities.





Key aspect of GENERATION HD2 study: Lower and less frequent dosing

GENERATION HD2 dosing regimen compared to the previous Phase III study

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GENERATION HD2 Phase II	60mg Every 4 Months	Jeelt				BEIT				Jeelt	Ø			Juilt				Jeelt	Minimum 16-month treatment period; study continues until all participants complete 16 months								
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Tominersen is an investigational (not approved) medicine that is being studied for the treatment of people with Huntington's Disease.





- Planned to run in 15 countries*
- Study is listed on clinical trial registries** and specific sites will be posted once a site is nearly ready to enroll participants; updates also available via Roche Medical Information (medinfo.roche.com)
- Interested individuals should speak to their HD specialist



* Final country participation to be confirmed. For any clinical study, it is possible that for various reasons an expected study site/country does not proceed to enrol participants. Alternatively, additional locations may be added. ** ClinicalTrials.gov (NCT05686551), EU Clinical Trial Registry (2022-001991-32)





GENERATION HD2 summary



GENERATION HD2 is a new study that will test two doses of intrathecally-administered tominersen (60 mg and 100 mg) given every 4 months



Every participant will receive tominersen or placebo for at least 16 months, and will continue until the last participant has completed the study. An iDMC will review trial data every 4–6 months



360 participants with prodromal or early manifest HD will be included, aged 25–50 years and with a CAP score of 400–500*



GENERATION HD2 is a global study expected to run in 15 countries. Interested individuals should speak to their HD specialist

* Additional inclusion and exclusion criteria apply, including the participation of a study companion CAP, CAG-age product; HD, Huntington's disease; iDMC, independent Data Monitoring Committee.





Acknowledgements and thank you



Special thanks for their collaborations



Deepest gratitude to the HD community for its ongoing contributions, especially families, investigators and site staff







Appendix





GENERATION HD2: Key inclusion/exclusion criteria

Inclusio	n criteria								
Prodromal HD (n=~20 per arm)	Early manifest HD (n=~100 per arm)								
DCL=2-3	DCL=4								
IS=100	100>IS≥70 TFC ≥8								
Age	Age 25–50								
CAP 400–500									
TMS >6									
Study companion required									

Exclusion criteria



- Current or previous use of an ASO, siRNA or HTT-lowering therapy
- Anti-platelet or anticoagulant therapy
- History of gene therapy, cell transplantation, or brain surgery



