



Neurocrine Biosciences Presents New Data Showing Significant Patient-Reported Improvements in Health-Related Quality of Life with INGREZZA® (valbenazine) Capsules in Older Adults with Tardive Dyskinesia

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- Data Add to Growing Body of Evidence Demonstrating Functional and Quality of Life Improvements in Patients Treated with INGREZZA for Tardive Dyskinesia
- Findings Presented at the 2025 American Association of Nurse Practitioners (AANP) National Conference

SAN DIEGO, June 20, 2025 /PRNewswire/ -- [Neurocrine Biosciences, Inc.](#) (Nasdaq: NBIX) today announced the presentation of new analyses from a Phase 4 randomized withdrawal study demonstrating significant patient-reported improvements in health-related quality of life and functional measures among adults aged 65 years and older with tardive dyskinesia who received continued treatment with [INGREZZA® \(valbenazine\) capsules](#). Findings will be presented at the 2025 American Association of Nurse Practitioners National Conference in San Diego. These post-hoc analyses of older adults expand on recently announced [Phase 4 study results](#), which demonstrated that continued treatment with INGREZZA improved functional status and quality of life measures across the general patient population.



"Older adults are not only at increased risk for developing tardive dyskinesia, but are also more susceptible to the profound physical, functional and social consequences of their uncontrolled movements," said Sanjay Keswani, M.D., Chief Medical Officer, Neurocrine Biosciences. "These new post-hoc analyses demonstrate that INGREZZA can provide significant and persistent improvements in quality of life for older adults with tardive dyskinesia and are consistent with the unique and substantial body of evidence that INGREZZA treatment can provide robust improvement in outcomes beyond tardive dyskinesia severity."

The analyses were conducted in a subset of 29 adult patients (≥65 years) who participated in a Phase 4, double-blind, placebo-controlled, randomized withdrawal study (NCT03891862). During an initial eight-week, open-label period, all patients received up to 80 mg of INGREZZA daily. At Week 8 (randomization baseline), patients were randomized to either continue INGREZZA (n=13) or switch to placebo (n=16) for an additional eight weeks. Analyses were conducted for patients who had available data during the double-blind period from Week 8 to Week 16.

Patients who received continued treatment with INGREZZA reported significant improvements in health-related quality of life and functional status, compared with those randomized to placebo. Two clinically validated scales were used to assess patient-reported outcomes, providing a comprehensive and scientifically robust measure of health status:

- The EuroQol 5-Dimension 5-Level (EQ-5D-5L) assessment tool, which measures health-related quality of life across five dimensions of health status (mobility, self-care, usual activities, pain/discomfort and anxiety/depression).
- The Sheehan Disability Scale (SDS), which measures patient-reported functional impairment in work/school, social life and family/home life impairment.

These analyses contribute to the growing body of evidence for INGREZZA use in older adults (≥65 years). A recently published post-hoc analysis from two 48-week studies, the KINECT® 3 extension and KINECT® 4, demonstrated the long-term safety profile and robust efficacy of INGREZZA in adults aged 65 years and older with tardive dyskinesia (TD). In addition, the analyses further reinforce findings from the [KINECT-PRO™ study](#) of INGREZZA – a first-of-its-kind study that demonstrated clinically meaningful improvement in patient-reported impact of TD with a vesicular monoamine transporter 2 inhibitor and used multiple clinically validated, patient-reported scales.

Additional presentations at the 2025 AANP National Conference include:

- Real-World Insights on Tardive Dyskinesia: A Claims-Based Analysis of Demographics and Healthcare Resource Utilization (Poster #24)

- Clinically Meaningful Long-Term Improvements with Valbenazine 40 mg in Adults with Tardive Dyskinesia (Poster #25)

About Tardive Dyskinesia

Tardive dyskinesia (TD) is a movement disorder that is characterized by uncontrolled, abnormal and repetitive movements of the face, torso and/or other body parts, which may be disruptive and negatively impact patients. The condition is associated with taking certain kinds of mental health medicines (antipsychotics) that help control dopamine receptors in the brain. Taking antipsychotics commonly prescribed to treat mental illnesses such as major depressive disorder, bipolar disorder, schizophrenia and schizoaffective disorder and other prescription medicines (metoclopramide and prochlorperazine) used to treat gastrointestinal disorders are associated with TD. In patients with TD, these treatments are thought to result in irregular dopamine signaling in a region of the brain that controls movement. The symptoms of TD can be mild to severe and are often persistent and irreversible. TD is estimated to affect at least 800,000 adults in the U.S.

About the KINECT-PRO™ Phase 4 Study

The KINECT-PRO™ Phase 4, open-label study was designed to evaluate patient-reported outcomes on the use of INGREZZA® (valbenazine) capsules in a tardive dyskinesia (TD) patient population reflective of real-world clinical practice. Participants had at least mild TD, were aware of and experiencing at least mild distress from their abnormal, involuntary movements and had a clinical diagnosis of schizophrenia, schizoaffective disorder, bipolar disorder or major depression. The KINECT-PRO study included a four-week screening period, a 24-week treatment period during which participants received 40 mg of INGREZZA once-daily for the first four weeks, followed by flexible dosing of 40 mg, 60 mg or 80 mg once-daily based on individual treatment needs and a two-week safety follow-up period. Baseline socio-demographic and clinical characteristics of the participants were broadly similar to those of the KINECT® 3 and KINECT® 4 studies.

KINECT-PRO is the first and only study to specifically evaluate and demonstrate patient-reported improvement with vesicular monoamine transporter 2 inhibitor treatment on TD using multiple clinically validated scales, including the [Tardive Dyskinesia Impact Scale](#) (TDIS™). The TDIS is the only patient-reported outcome instrument designed for and validated in tardive dyskinesia patients that measures the physical, social and emotional impact of the involuntary movements of the condition.

About the Tardive Dyskinesia Impact Scale

The [Tardive Dyskinesia Impact Scale \(TDIS\)](#) is a novel, psychometrically validated patient-reported outcome measure in TD. It was developed by Neurocrine Biosciences from qualitative studies and Phase 3 trials of INGREZZA for the treatment of TD (KINECT 3 and KINECT 4) as a comprehensive measure of impact and burden of TD from a patient's perspective. The TDIS consists of 11 questions evaluating physical and socio-emotional impact. Six domains are assessed: mouth/throat, dexterity, mobility, pain, social and emotional. The TDIS allows people with TD to rate how their symptoms affect daily activities and how their uncontrollable movements make them feel. The questionnaire captures relevant information about the impact of TD to provide a more holistic assessment of the condition. Validation of this scale was [published](#) in the *Journal of Patient-Reported Outcomes*.

About INGREZZA® (valbenazine) Capsules and INGREZZA® SPRINKLE (valbenazine) Capsules

INGREZZA is a selective vesicular monoamine transporter 2 (VMAT2) inhibitor approved by the U.S. Food and Drug Administration for the treatment of adults with tardive dyskinesia and the treatment of chorea associated with Huntington's disease (HD). Only INGREZZA offers a therapeutic dose from day one with no required titration.

INGREZZA, developed by Neurocrine Biosciences, selectively inhibits VMAT2 with no appreciable binding affinity for VMAT1, dopaminergic (including D2), serotonergic, adrenergic, histaminergic or muscarinic receptors. While the specific way INGREZZA works to treat TD and HD chorea is not fully understood, INGREZZA is unique in that it selectively and specifically targets VMAT2 to inhibit the release of dopamine, a chemical in the brain that helps control movement. INGREZZA is believed to reduce extra dopamine signaling, which may lead to fewer uncontrollable movements.

INGREZZA is studied across the widest range of patients. It is always one capsule, once daily and can be taken together with most stable mental health regimens such as antipsychotics or antidepressants. Only INGREZZA offers the benefit of a sprinkle formulation, INGREZZA SPRINKLE, for those who experience dysphagia, have difficulty swallowing or prefer not to swallow a pill. INGREZZA and INGREZZA SPRINKLE dosages approved for use are 40 mg, 60 mg and 80 mg capsules.

Important Information

Approved Uses

INGREZZA® (valbenazine) capsules or INGREZZA® SPRINKLE (valbenazine) capsules are prescription medicines used to treat adults with:

- movements in the face, tongue, or other body parts that cannot be controlled (tardive dyskinesia).
- involuntary movements (chorea) of Huntington's disease. INGREZZA or INGREZZA SPRINKLE do not cure the cause of involuntary movements, and do not treat other symptoms of Huntington's disease, such as problems with thinking or emotions.

It is not known if INGREZZA or INGREZZA SPRINKLE is safe and effective in children.

IMPORTANT SAFETY INFORMATION

INGREZZA or INGREZZA SPRINKLE can cause serious side effects in people with Huntington's disease, including: depression, suicidal thoughts, or suicidal actions. Tell your healthcare provider before you start taking INGREZZA or INGREZZA SPRINKLE if you have Huntington's disease and are depressed (have untreated depression or depression that is not well controlled by medicine) or have suicidal thoughts. Pay close attention to any changes, especially sudden changes, in mood, behaviors, thoughts, or feelings. This is especially important when INGREZZA or INGREZZA SPRINKLE is started and when the dose is changed. Call your healthcare provider right away if you become depressed, have unusual changes in mood or behavior, or have thoughts of hurting yourself.

Do not take INGREZZA or INGREZZA SPRINKLE if you:

- are allergic to valbenazine, or any of the ingredients in INGREZZA or INGREZZA SPRINKLE.

INGREZZA or INGREZZA SPRINKLE can cause serious side effects, including:

- **Allergic reactions.** Allergic reactions, including an allergic reaction that causes sudden swelling called angioedema can happen after taking the first dose or after many doses of INGREZZA or INGREZZA SPRINKLE. Signs and symptoms of allergic reactions and angioedema, include: trouble breathing or shortness of breath, swelling of your face, lips, eyelids, tongue, or throat, or other areas of your skin, trouble with swallowing, or rash, including raised, itchy red areas on your skin (hives). Swelling in the throat can be life-threatening and can lead to death. Stop taking INGREZZA or INGREZZA SPRINKLE and go to the nearest emergency room right away if you develop these signs and symptoms of allergic reactions and angioedema.
- **Sleepiness and tiredness that could cause slow reaction times (somnolence and sedation).** Do not drive a car or operate dangerous machinery until you know how INGREZZA or INGREZZA SPRINKLE affects you. Drinking alcohol and taking other medicines may also cause sleepiness during treatment with INGREZZA or INGREZZA SPRINKLE.
- **Heart rhythm problems (QT prolongation).** INGREZZA or INGREZZA SPRINKLE may cause a heart rhythm problem known as QT prolongation. You have a higher chance of getting QT prolongation if you also take certain other medicines during treatment with INGREZZA or INGREZZA SPRINKLE. Tell your healthcare provider right away if you develop any signs or symptoms of QT prolongation, including: fast, slow, or irregular heartbeat (heart palpitations), shortness of breath, dizziness or lightheadedness, or fainting or feeling like you are going to faint.
- **Neuroleptic Malignant Syndrome (NMS).** NMS is a serious condition that can lead to death. Call a healthcare provider right away or go to the nearest emergency room if you develop these symptoms and they do not have another obvious cause: high fever, stiff muscles, problems thinking, irregular pulse or blood pressure, increased sweating, or very fast or uneven heartbeat.
- **Parkinson-like symptoms.** Symptoms include: body stiffness, drooling, trouble moving or walking, trouble keeping your balance, shaking (tremors), or falls.

Before taking INGREZZA or INGREZZA SPRINKLE, tell your healthcare provider about all of your medical conditions including if you: have liver or heart problems, are pregnant or plan to become pregnant, or are breastfeeding or plan to breastfeed.

Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements. Make sure you tell all of your healthcare providers that you are taking INGREZZA or INGREZZA SPRINKLE. Taking INGREZZA or INGREZZA SPRINKLE with certain other medicines may cause serious side effects. Especially tell your healthcare provider if you: take digoxin or take or have taken a monoamine oxidase inhibitor (MAOI) medicine. You should not take INGREZZA or INGREZZA SPRINKLE if you are taking, or have stopped taking, a MAOI within the last 14 days.

The most common side effects of INGREZZA or INGREZZA SPRINKLE in people with tardive dyskinesia are sleepiness and tiredness.

The most common side effects of INGREZZA or INGREZZA SPRINKLE in people with chorea associated with Huntington's disease include sleepiness and tiredness, raised itchy red areas on your skin (hives), rash, and trouble getting to sleep or staying asleep.

These are not all of the possible side effects of INGREZZA or INGREZZA SPRINKLE. Call your doctor for medical advice about side effects. You are encouraged to report negative side effects of prescription drugs to the FDA. Visit MedWatch at www.fda.gov/medwatch or call 1-800-FDA-1088.

Dosage Forms and Strengths: INGREZZA and INGREZZA SPRINKLE are available in 40 mg, 60 mg, and 80 mg capsules.

Please see full [Prescribing Information](#), including [Boxed Warning](#), and [Medication Guide](#).

About Neurocrine Biosciences, Inc.

Neurocrine Biosciences is a leading neuroscience-focused, biopharmaceutical company with a simple purpose: to relieve suffering for people with great needs. We are dedicated to discovering and developing life-changing treatments for patients with under-addressed neurological, neuroendocrine and neuropsychiatric disorders. The company's diverse portfolio includes FDA-approved treatments for tardive dyskinesia, chorea associated with Huntington's disease, classic congenital adrenal hyperplasia, endometriosis* and uterine fibroids,* as well as a robust pipeline including multiple compounds in mid- to late-phase clinical


development across our core therapeutic areas. For three decades, we have applied our unique insight into neuroscience and the interconnections between brain and body systems to treat complex conditions. We relentlessly pursue medicines to ease the burden of debilitating diseases and disorders because you deserve brave science. For more information, visit [neurocrine.com](https://www.neurocrine.com), and follow the company on [LinkedIn](#), [X](#) and [Facebook](#). (**in collaboration with AbbVie*)

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Forward-Looking Statements

In addition to historical facts, this press release contains forward-looking statements that involve a number of risks and uncertainties. These statements include, but are not limited to, statements regarding the potential benefits to be derived from INGREZZA and the value INGREZZA may bring to patients. Factors that could cause actual results to differ materially from those stated or implied in the forward-looking statements include, but are not limited to, the following: risks and uncertainties associated with Neurocrine Biosciences' business and finances in general, as well as risks and uncertainties associated with the commercialization of INGREZZA; whether INGREZZA receives adequate reimbursement from third-party payors; risks and uncertainties relating to competitive products and technological changes that may limit demand for INGREZZA; risks associated with the Company's dependence on third parties for development and manufacturing activities related to INGREZZA, and the ability of the Company to manage these third parties; risks that additional regulatory submissions for INGREZZA or other product candidates may not occur or be submitted in a timely manner; risks that the FDA or other regulatory authorities may make adverse decisions regarding INGREZZA; risks that post-approval INGREZZA commitments or requirements may be delayed; risks that INGREZZA may be precluded from commercialization by the proprietary or regulatory rights of third parties, or have unintended side effects, adverse reactions or incidents of misuse; and other risks described in the Company's periodic reports filed with the Securities and Exchange Commission, including without limitation the Company's quarterly report on Form 10-Q for the quarter ended March 31, 2025. Neurocrine Biosciences disclaims any obligation to update the statements contained in this press release after the date hereof other than required by law.

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