(Nasdaq: RVPH)

Reviva Pharmaceuticals

Corporate Presentation | November 2025

Forward-Looking Statements

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This presentation also contains estimates and other statistical data made by independent parties and by the Company relating to market size and growth and other data about the Company's industry. This data involves a number of assumptions and limitations, and you are cautioned not to give undue weight to such estimates.

Reviva Clinical Development Pipeline

			Discovery	Preclinical	Phase I	Phase II	Phase III	Est. Market Opportunity ($B)
Brilaroxazine – Serotonin/ dopamine modulator (NCE)	Neuropsychiatric	Schizophrenia						$13.4 (1)
		Bipolar Disorder						$9.74 (2)
		Major Depressive Disorder						$14.9 (3)
		Attention Deficit Hyperactivity Disorder						$30.5 (4)
	Inflammatory	Pulmonary Arterial Hypertension						$12.1 (5)
		Idiopathic Pulmonary Fibrosis						$6.4 (6)
		Psoriasis (topical gel)						$57.7 (7)
RP1208 – Triple reuptake inhibitor (NCE)		Depression						$26.4 (8)
		Obesity						$77 (9)

**Opportunity to expand into other indications including Parkinson's Psychosis and Alzheimer's (Psychosis/agitation)*

(1) By 2032 per Schizophrenia Market by Market Research Future 2024. (2) In 2025 per Bipolar Disorder Market by Towards Healthcare Report 2025. (3) By 2032 per Major Depressive Disorder Market by Future Market Insights 2022. (4) By 2032 per ADHD market by Polaris Market Research 2023. (5) By 2032 per Pulmonary Arterial Hypertension (PAH) by Precedence Research 2023. (6) By 2031 per Idiopathic Pulmonary Fibrosis (IPF) by SkyQuest 2024. (7) By 2032 per Psoriasis Market by Precedence Research 2023. (8) By 2028 per Anxiety and Depression market, Report Linker 2023. (9) By 2030 per Morgan Stanley Research 2023

Schizophrenia: Common Psychiatric Condition With Multiple Symptom Domains

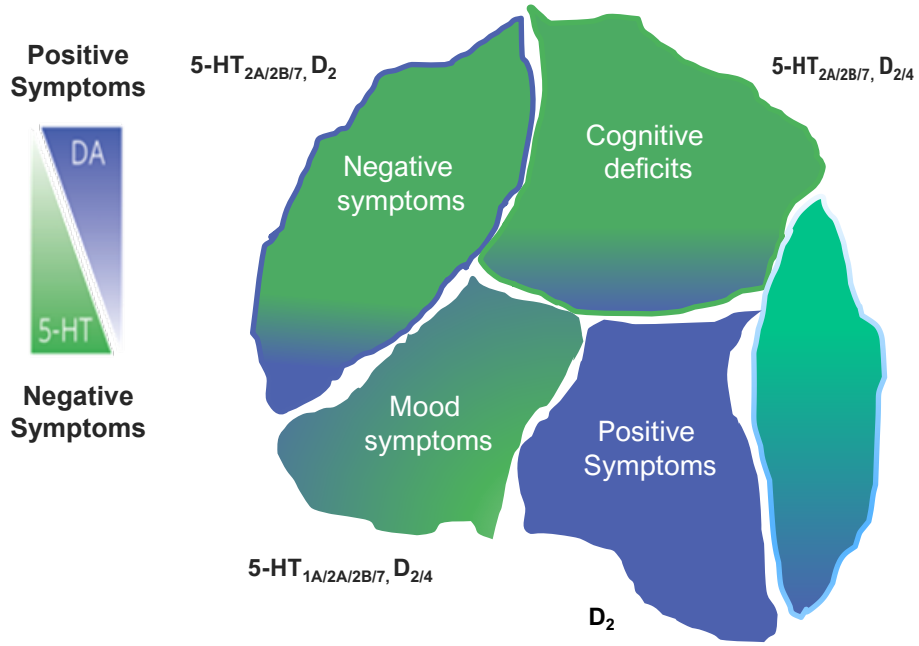
- Affects ~1.1% of the world's population
  - ~ 24 million people globally
  - ~ 3.5 million people in USA
- Mix of heterogenous psychotic symptoms with varying degrees of severity
- Most patients requires lifelong treatment

Key Unmet Needs:

1) ~30% of patients are treatment refractory
2) High treatment discontinuation rate (30-74%)
3) Relapse rate ~25% in 1 year and ~90% in 5 years
4) Treating neuroinflammation, as it is implicated as major contributing factor to schizophrenia
5) Negative symptoms and nonadherence to treatment are the top unmet needs

Major Symptom Domains of Schizophrenia

Primarily driven by dysfunctional serotonin and dopamine signaling

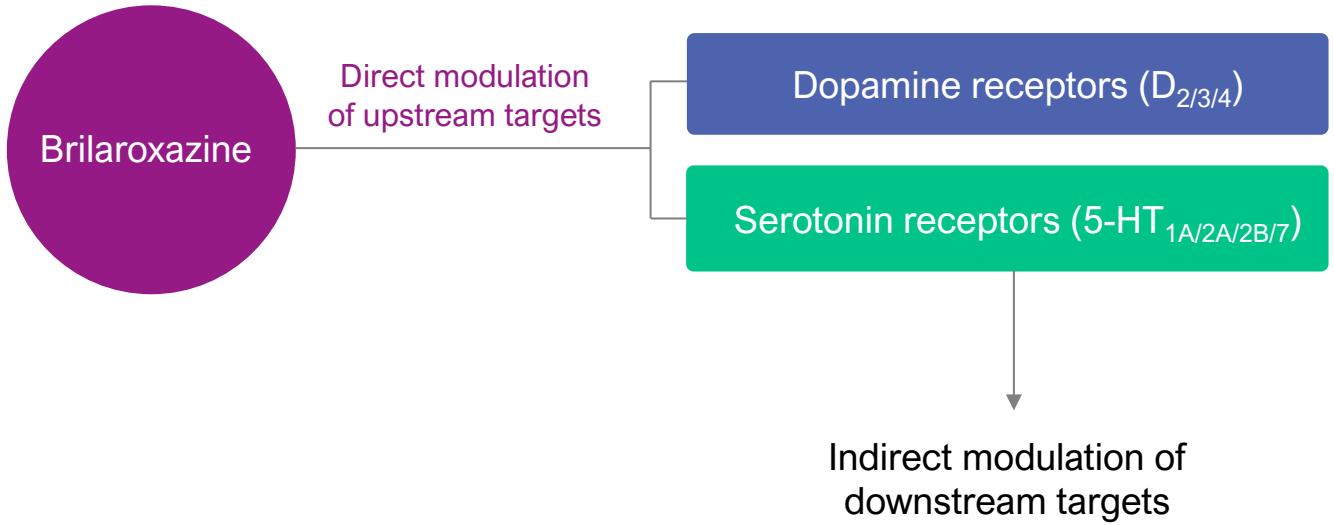


D = Dopamine signaling/ and 5-HT = Serotonin signaling
Negative symptoms include social withdrawal, avolition, alogia, anhedonia, disorganized behavior, and poor self-care.

Source: Delveinsight Market Research 2023; https://www.mentalhelp.net/schizophrenia/statistics/; https://www.who.int/news-room/fact-sheets/detail/mental-disorders; https://fherehab.com/schizophrenia/statistics; https://www.nimh.nih.gov/health/statistics/schizophrenia; Kane JM et al. J Clin Psychology 2019, 80(2):18com12123..Divroye C et al. Neuropsychopharmacology 2016, 109:59068; peng l et al. Expert Review of Neurotherapeutics 2018, 18(5):435-442; Nikiforuk et al. CNS Drugs 2015, 29:265-275; Tan T et al. Schizophrenia Bulletin 2017, 45(5): 1012-1023. Bhat L, et al. Medical Research Archives 2023, 11(4):3834.

Brilaroxazine: Novel Serotonin-Dopamine & Neuroinflammatory Signaling Modulator

Multi-faceted direct and indirect activities on critical pathways implicated in schizophrenia



Brilaroxazine Receptor Activities

High (Ki, nM)*	Dopamine D_2	0.47
	Dopamine D_3	3.7
	Dopamine D_4	6
(5-HT_{2B} > D_2)	Serotonin 5-HT_{1A}	1.5
	Serotonin 5-HT_{2A}	2.5
	Serotonin 5-HT_{2B}	**0.19**
	Serotonin 5-HT_7	2.7
Moderate (Ki, nM)	Nicotine $\alpha_4\beta_2$	36.3
	Serotonin 5-HT_6	51
Weak or no significant activity	No significant activities at therapeutic dose for off-targets 5-HT_{2C}, $\alpha_{1,2,}$ and $M_{1\text{-}4}$ implicated in cardiometabolic, metabolic, or GI side effects	

**partial agonists for $D_{2,3,4}$ and 5-$HT_{1A/2A}$ receptors*

Inflammatory cytokines

Implicated in inflammation and immune dysfunction

Nicotinic receptors

Implicated in positive symptoms and cognition

NMDA/Glycine receptors

Implicated in negative symptoms and cognition

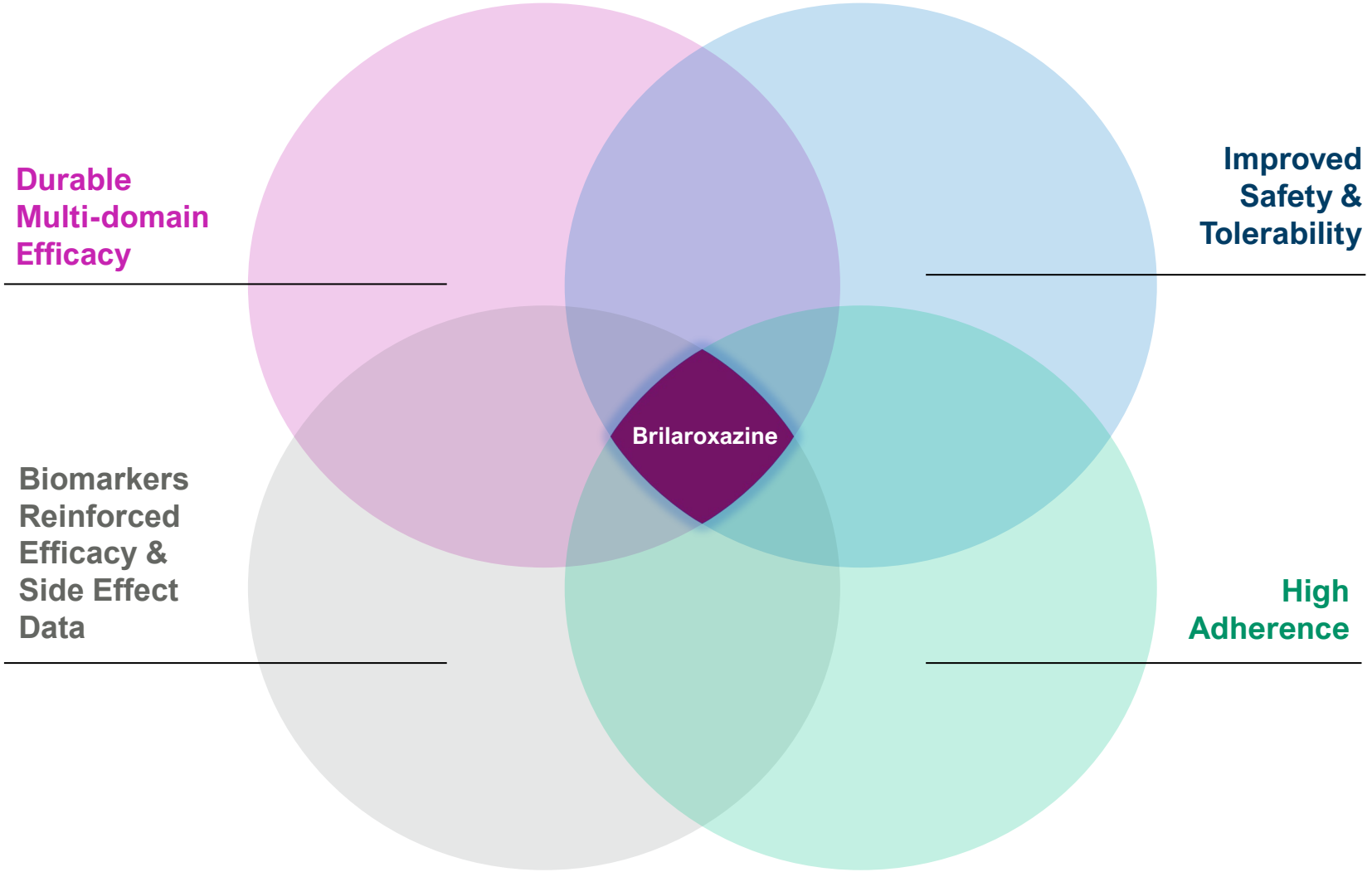
GABA receptors

Implicated in mood

Bhat L, et al. Medical Research Archives 2023, 11(4):3834; Rajagopal et al, Behavioral Brain Research 2017, 332;180-199

Brilaroxazine

Differentiated clinical profile with potential to address unmet needs across the treatment of schizophrenia compared to historical data reported for standard of care antipsychotics



For KOL webinars on brilaroxazine phase 3 RECOVER trial results in schizophrenia, please visit: www.revivapharma.com

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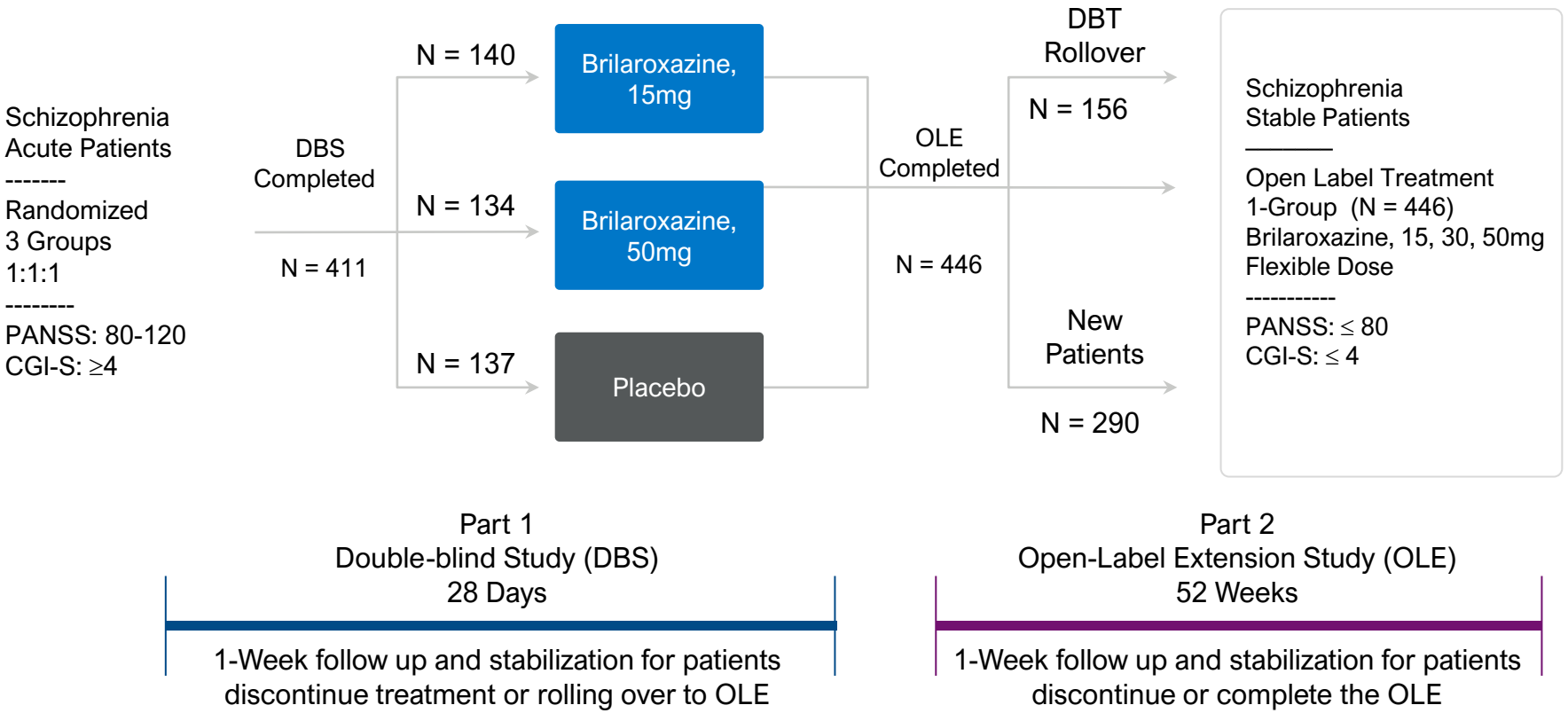
(2) chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/https://revivapharma.com/wp-content/uploads/2024/09/09.04.24-Reviva-Virtual-KOL-Event-Presentation.pdf

(3) chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/https://revivapharma.com/wp-content/uploads/2023/10/Reviva-RECOVER-Topline-Results-Presentation_October-2023.pdf

Brilaroxazine Phase 3 RECOVER Trial For Schizophrenia

Phase 3, Randomized, 28 Days, Double-blind, Placebo-controlled, Multicenter Study to Assess the Safety and Efficacy of Brilaroxazine in Subjects with an Acute Exacerbation of Schizophrenia, Followed by a 52-Week Open-label Extension



Study Overview

Primary Endpoint (DBS):
Reduction in total PANSS at the end of treatment in a brilaroxazine arm from baseline versus placebo

Safety (DBS, OLE):
Clinical, labs, body weight, lipids, fasting glucose, prolactin

Pharmacokinetics:

Population pharmacokinetics

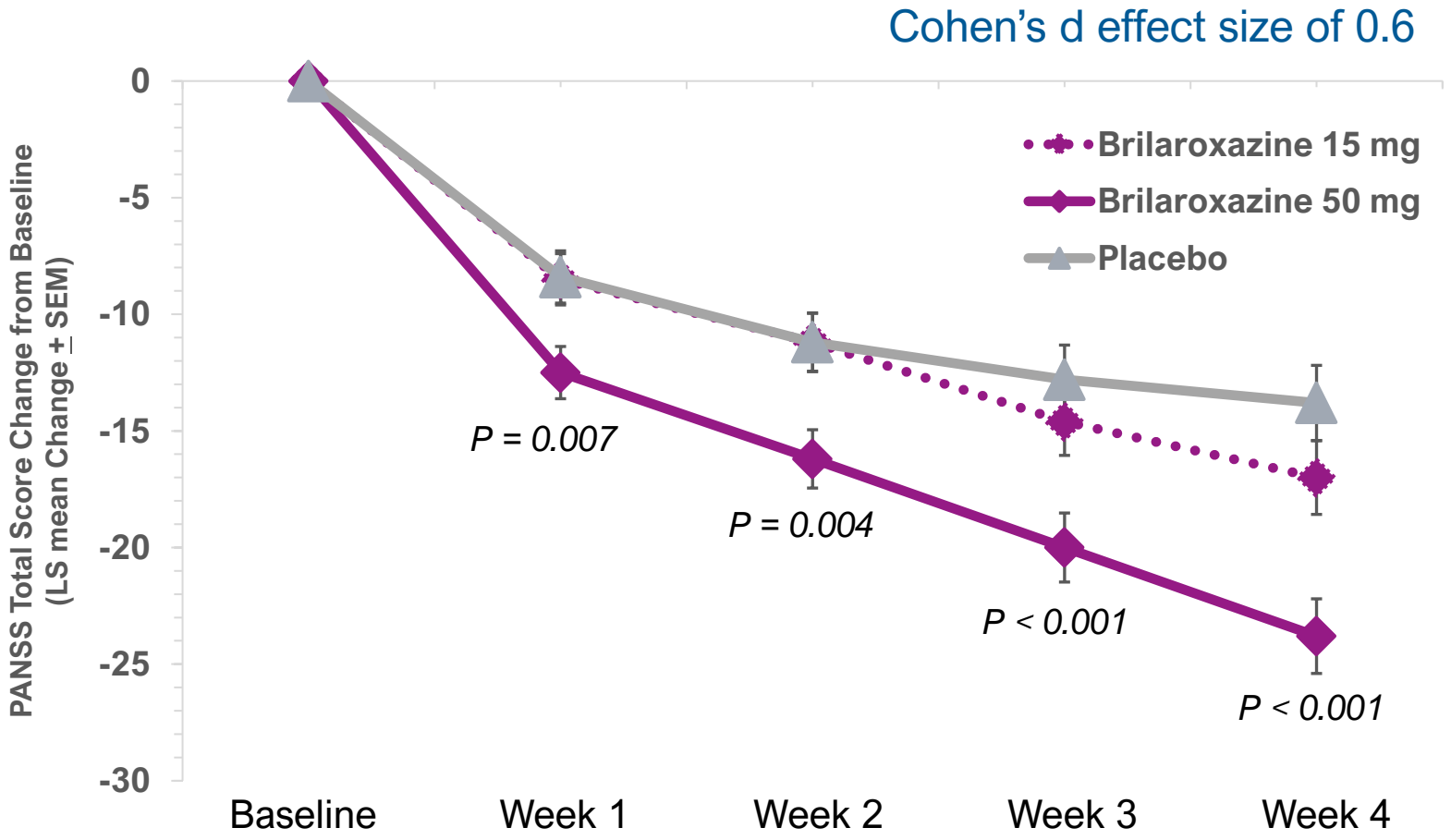
For details see: www.clinicaltrials.gov (search key word, RP5063)

Brilaroxazine Phase 3 RECOVER Trial Primary Endpoint: PANSS Total Score

10.1-point reduction in PANSS total score vs. placebo, p <0.001 (-23.9 brilaroxazine 50 mg vs. -13.8 placebo)

PANSS Total Score

- Successfully met PANSS Total Score primary endpoint for brilaroxazine 50 mg
- Separation for brilaroxazine 50 mg from placebo within a week
- Brilaroxazine 15 mg numerically separated from placebo
- Results further supported by vocal and blood biomarkers data



Bhat L et al ASCPT 2024 (Poster #LB008) and SIRS 2024 (Poster #T291)
PANSS: Positive and Negative Syndrome Scale

Brilaroxazine Phase 3 Trial: Favorable Efficacy, Safety & Adherence

Early onset of action with strong broad-spectrum efficacy further supported by vocal biomarker (VBM) & blood biomarkers

Symptom Domains	Acute Schizophrenia Patients Brilaroxazine 50mg vs Placebo Point Improvement	Acute Schizophrenia Patients Brilaroxazine 50mg vs Placebo *Cohen's d Effect Size*	Primary Negative Symptom Patients Vocal Biomarker Positive Brilaroxazine 50mg vs Placebo Point Improvement	Primary Negative Symptom Patients Vocal Biomarker Positive Brilaroxazine 50mg vs Placebo *Cohen's d Effect Size*
PANSS Total Score	-10.1	*0.6*	-15	*0.9*
PANSS Positive Symptoms	-2.8	*0.5*	-3.5	*0.8*
PANSS Negative Symptoms	-2.0	*0.4*	---	---
PANSS Negative Marder Factor	-2.1♦	*0.4*	-3.7	*0.6*
PANSS Social Cognition	-1.6	*0.5*	-3.8	*0.8*
PANSS Excitement/Agitation	-2.1	*0.5*	---	---
PANSS Gen Psychopathology	-5.3	*0.6*	---	---
Personal & Social Performance	6.3	*0.5*	6.3	*0.6*
CGI-S Score	-0.5 *(≥1-point in 78%)*	*0.5*	-0.7	*0.7*
Treatment Discontinuation	16% (vs. placebo, 22%)			

♦Significant improvement in Marder scores for depression, hostility, and disorganized thoughts

Acute Patients

Blood Biomarkers

Neurotrophins*
BDNF
Hormones*
Prolactin
Thyroid T3
Cytokines
IL-6
IL-8*
IL-10
IFN-γ/IP-10*
TNF-α
MIP-1*

*Significant improvement, P≤0.05

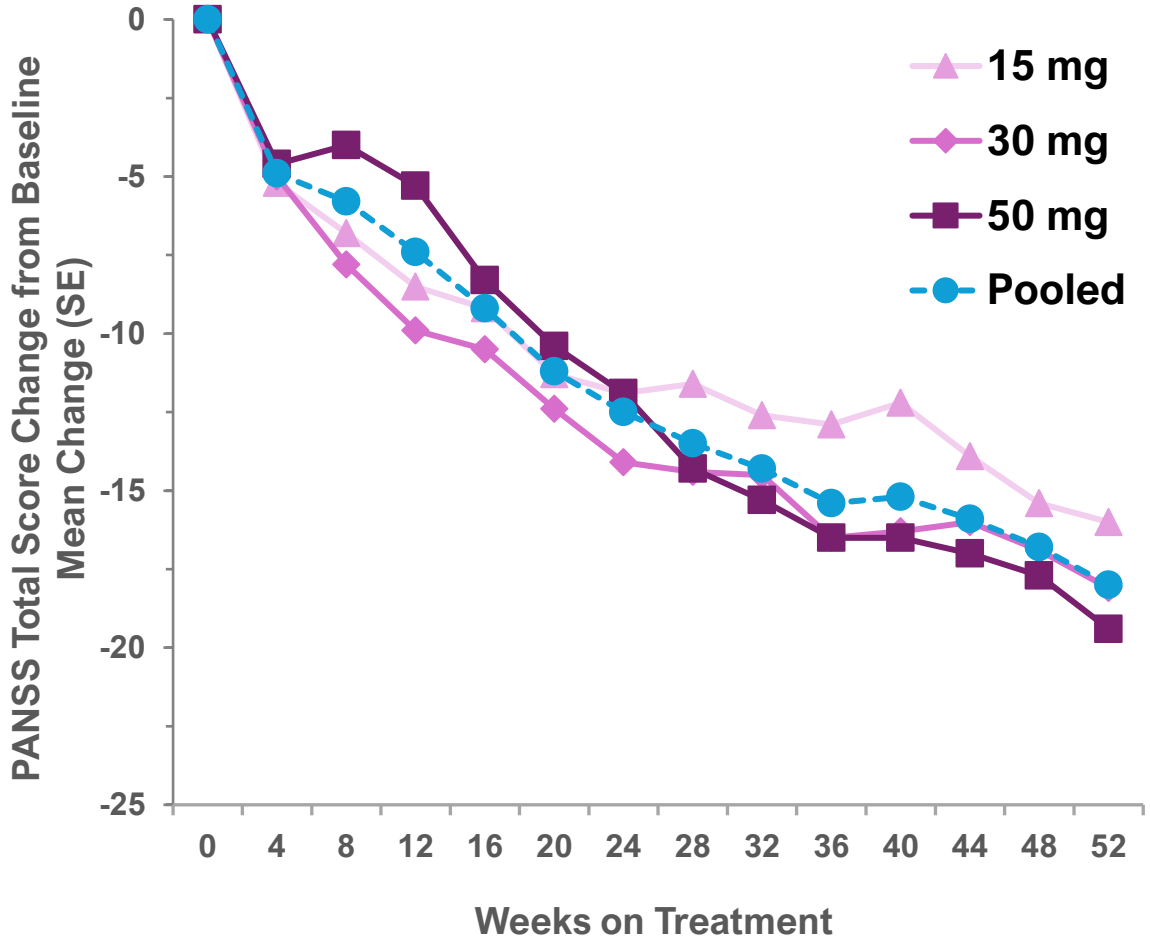
Bhat L et al ASCPT 2024 (Poster #LB008) and SIRS 2024 (Poster #T291); Cohen et al CNS Summit 2024, ISCTM 2025

PANSS Total Score: Progressive & Durable Efficacy Sustained Over 1-year

18-point decrease with brilaroxazine pooled (15, 30, and 50 mg) at Week-52 vs baseline ($p \leq 0.0001$; n = 159)

CHANGE IN PANSS TOTAL SCORE

- Strong, progressive and durable efficacy from acute through maintenance treatment with <1% report of exacerbation or relapse of symptoms over 1-year treatment
- Dose dependent decrease from baseline to Week-52 (1-year)
  - 16.0-point decrease in 15 mg (61.2 → 45.2)
  - 18.0-point decrease in 30 mg (69.7 → 51.7)
  - 19.4-point decrease in 50 mg (75.6 → 56.2)
  - 18.1-point decrease in pooled (69.9 → 51.8)
- Decrease in PANSS total score in rollover patients from the double-blind trial to OLE over 1-year treatment (Baseline to Week-56):
  - 46.1-point decrease in 15 mg (94.4 → 51.3)
  - 49.6-point decrease in 50 mg (102.7 → 53.1)



PANSS: Positive and Negative Syndrome Scale

Brilaroxazine Phase 3 Trial OLE: Favorable Efficacy, Safety & Adherence

Progressive and durable broad-spectrum efficacy across all three doses of brilaroxazine (15, 30 and 50 mg)

Clinically Stable Schizophrenia Patients (N=446, 52 Weeks / 12 Months)

Brilaroxazine 15, 30 and 50mg (pooled)

Symptom Domains	OLE Point Improvement* at 6M (N=303)	OLE Point Improvement* at 12 M (N=159)	Rollover Patients** DB Trial to OLE Point Improvement* at 13 M (N= 50)
PANSS Total Score	-10.7	-18.1	-47.7
PANSS Positive Symptoms	-3.3	-5.0	-14.0
PANSS Negative Symptoms	-2.8	-4.4	-10.5
PANSS Negative Marder Factor	-3.0♦	-4.4♦	-10.5♦
PANSS Social Cognition	-1.5	-2.9	-7.9
PANSS Excitement/Agitation	-1.4	-3.5	-8.3
PANSS Gen Psychopathology	-4.7	-8.7	-23.2
Personal & Social Performance (PSP)	4.5	11.3	32.7
CGI-S Score	-0.4 *(≥1 point in 37%)*	-0.8 *(≥1 point in 59%)*	-2.5 *(≥1 point in 100%)*
Treatment Adherence	Discontinuation rate, 35%		

Blood Biomarkers

Neurotrophins*
BDNF

Hormones*
Prolactin
Thyroid T3

Cytokines*
IL-6
IL-8
IL-10
IFN-γ/IP-10
TNF-α
MIP-1

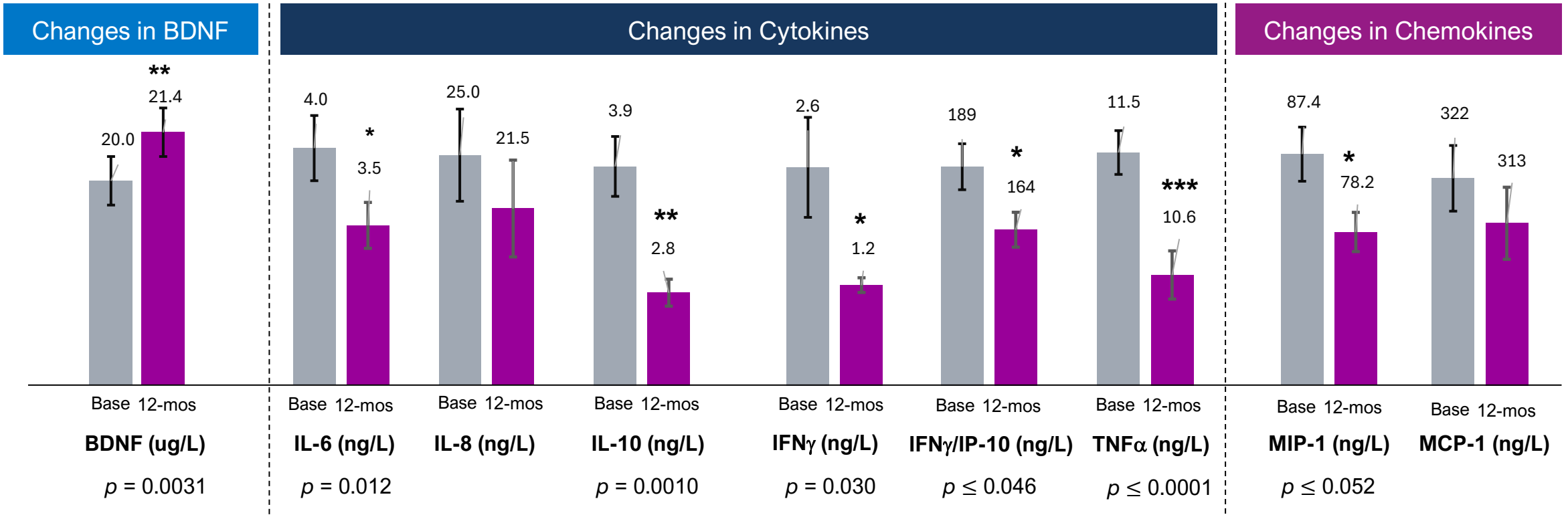
*Significant improvement, P= ≤0.05

♦Significant improvement in Marder scores for depression, hostility and disorganized thoughts

*Baseline to EOT, P = ≤0.001; OLE: Open Label Extension; **Brila-15 & 50mg patients rolled over from DB to OLE

Brilaroxazine Phase 3 RECOVER OLE Trial Inflammatory Biomarker Data

A significant increase in BDNF & decrease in inflammatory cytokines and chemokines over 12 months



☞ Individual treatment groups (15, 30 50 mg) also showed increase in BDNF and decrease proinflammatory cytokines and chemokines

Reduced BDNF implicated in cognitive and memory impairments in schizophrenia and depression

Elevated proinflammatory cytokines IL-6, IL-8, IL-10, IFNγ, and TNFα reported in schizophrenia, bipolar and depression patients

Chemokine dysregulation is associated with neuroinflammation in schizophrenia

Liberona et al Int J Mol Sci 2024, 25:11204; Li et al. Front Psych 2024, 15:1417213; Reale et al. Front Psych 2021, 12:536257; Ermakov et al. Int J Mol Sci 2023, 24(3):2215

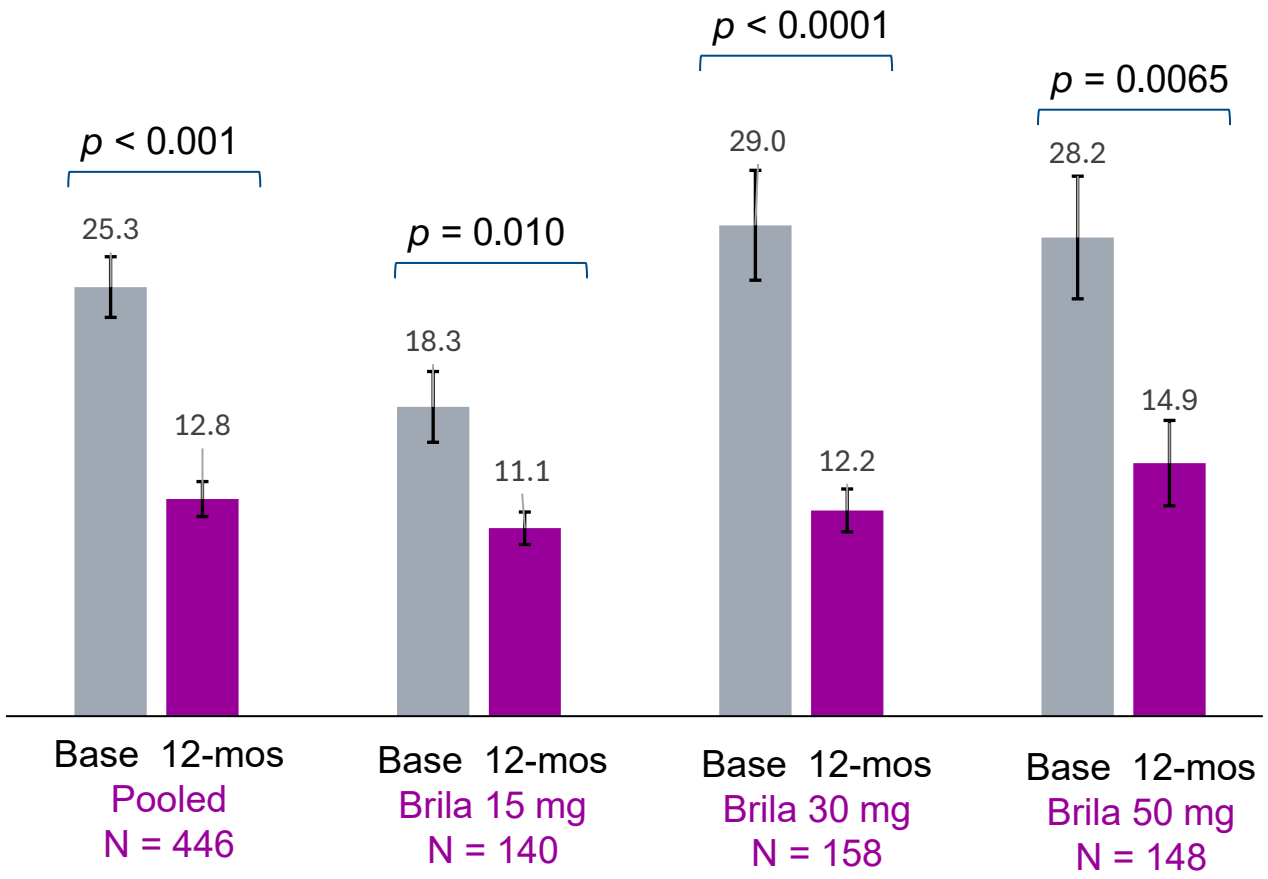
Brilaroxazine Phase 3 OLE Trial: Change in Prolactin Hormone

Clinically significant decrease in prolactin levels across all doses of brilaroxazine over 12 months

DECREASE IN PROLACTIN

- Elevated serum prolactin levels reduced to normal across all doses of brilaroxazine from baseline to week-52/EOT (p ≤0.01):
  - -7.14 μg/L in 15mg, (18.26 → 11.12)
  - -16.79 μg/L in 30mg, (28.95 → 12.16)
  - -13.30 μg/L in 50 mg, (28.24 → 14.94)
  - -12.50 μg/L Overall, (25.32 → 12.82)

- Hyperprolactinemia is common condition in patients with schizophrenia / psychiatric disorders
  - Associated with immune diseases (multiple sclerosis, systemic sclerosis etc)
  - Associated with variety of adverse effects: weight gain, type 2 diabetes, breast tenderness and enlargement, sexual dysfunction (lack of libido), and erectile dysfunction in men



☞ Normal blood level of prolactin in men, <15 μg/L and in female (not pregnant), <20 μg/L

OLE = Open label extension; EOT: = End of Treatment

Borba et al. Front Immun 2018, 9:73; Rajkumar, Schizo Res Treatment 2014,: 175360; Gragnoli et al . Transl Psych 2016, 6:e785

Brilaroxazine Phase 3 OLE Trial: Change in Thyroid Hormone

Improvement in thyroid hormone levels across all doses of brilaroxazine over 12 months

IMPROVEMENT IN THYROID HORMONES

- Improvement in thyroid (T3) hormone levels across all doses of brilaroxazine from baseline to week-52/EOT
  - 0.033 ug/L in 15mg
  - 0.020 ug/L in 30mg
  - 0.076 ug/L in 50 mg, *P ≤0.05*
  - 0.044 ug/L in overall, *P ≤0.05*

- Improvement in thyroid (T4) and decrease in TSH hormone levels across all doses of brilaroxazine

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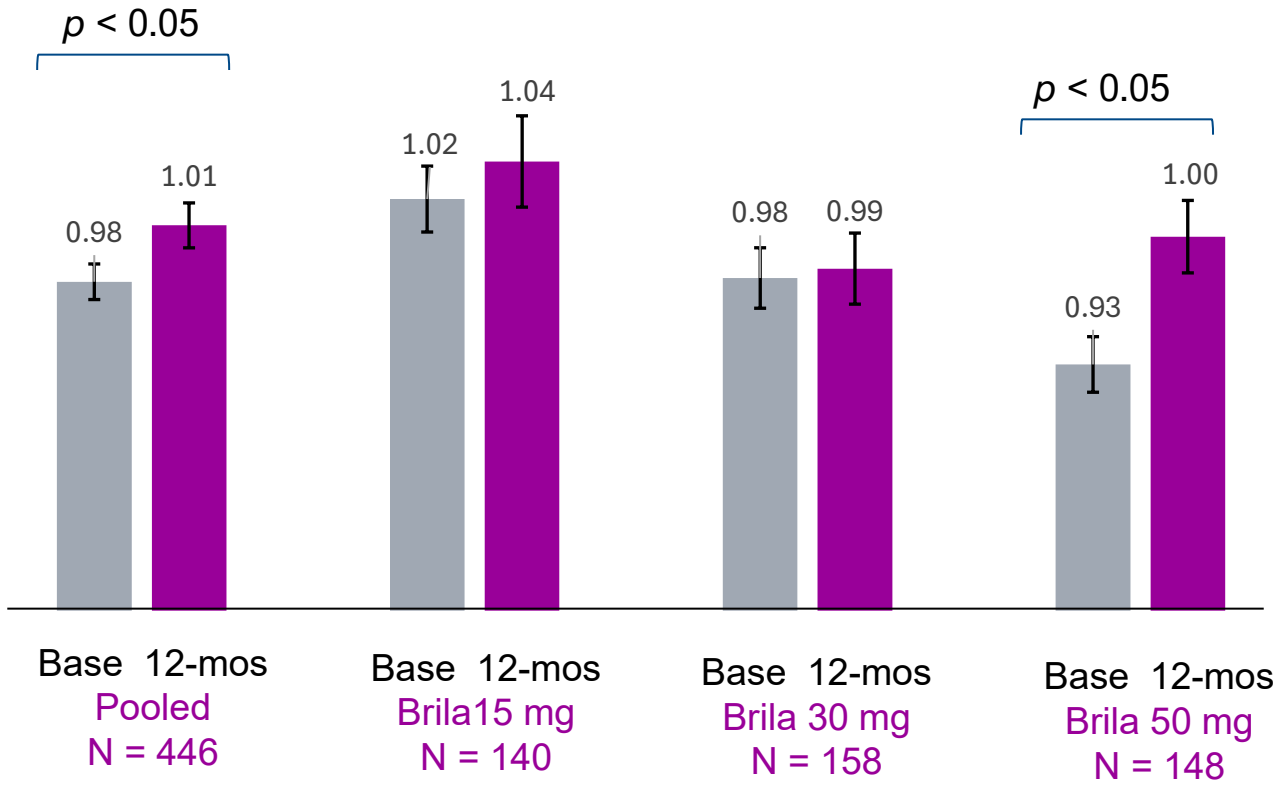
- Hypothyroidism reported in schizophrenia(negative symptom) and mood disorders (bipolar, depression)
- Hypothyroidism implicated in antipsychotic induced metabolic (obesity) and immune disorders
- Thyroid hormones are important for modulation of dopaminergic, serotonergic, glutamateric and GABAergic network.



☞ Normal blood level of thyroid T3 hormone, 0.8- 2.2 µg/L

OLE = Open label extension; EOT: = End of Treatment

Treiber et al. Biol Psych 2025, 138:111338; Misiak et al. Prog Neuropsychopharmacol & biol psych 2021, 111:110402

Sexual Function, CSFQ Score: Improvement in both Males and Females

Improvement in sexual function CSFQ Score over 12 months ($p \leq 0.001$)

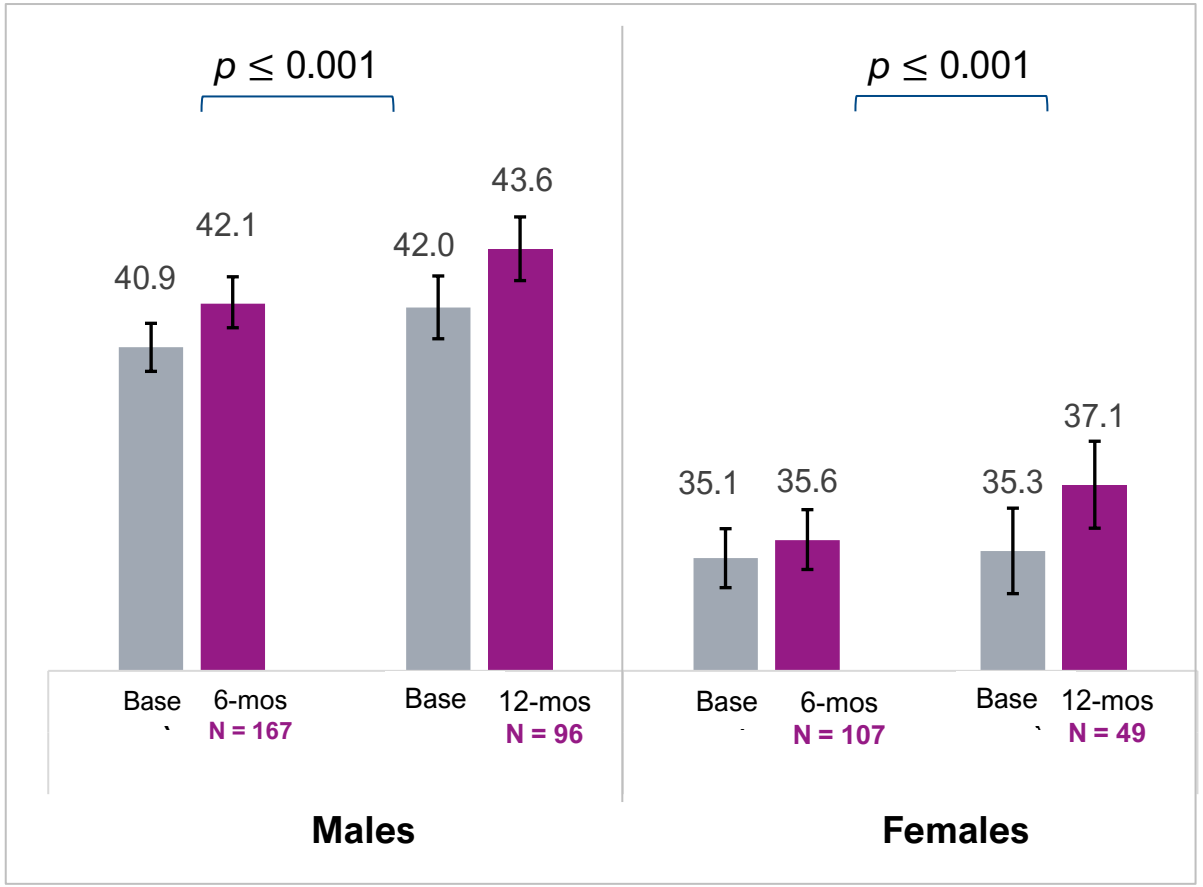
SEXUAL FUNCTION, CSFQ SCORE

- Significant improvement in total sexual function score with brilaroxazine pooled (15, 30, & 50 mg) vs. baseline over 1-year ($p \leq 0.001$):

  Males: 1.2 point in male (40.9 → 42.1) at 6M
  1.6 point in male (42.0 → 43.6) at 12M

  Females: 0.5 point in female (35.1 → 35.6) at 6M
  1.8 point in female (35.3 → 37.1) at 12M

- Prevalence of sexual dysfunction in women 60% and men 55% men with schizophrenia
- Sexual dysfunction linked to negative symptoms, social cognition and social functioning
- Sexual dysfunction impacts quality of life, treatment adherence, and may develop depression and suicidality
- Hyperprolactinemia and hypothyroidism in schizophrenia linked sexual dysfunction



OLE = Open label extension
CSFQ: Change in Sexual Functioning Questionnaire; Anita H et al. Handbook of sexualy-related measures, 2010, page 290; Edinoff AN et al. Psychiatry Intnl 2022, 3:29-42

Brilaroxazine Phase 3 RECOVER Trial in Acute Schizophrenia

Safety, Tolerability and Compliance (double-blind trial for 4-week, N=411)

Variables	Brilaroxazine 15 mg (N=140)	Brilaroxazine 50 mg (N=134)	Placebo (N=137)
Any Treatment Emergent Adverse Event (TEAE)	104 (34.5%)	107 (35.5%)	90 (29.9%)
Discontinuation, n (%)	26 (18.6%)	22 (16.4%)	30 (21.9%)
TEAE occurring in >5% participants			
Somnolence	4 (2.9%)	10 (7.5%)	3 (2.2%)
Headache	8 (5.7%)	7 (5.2%)	3 (2.2%)
Metabolic Changes (weight and lipids), TEAE			
Body Weight Change in kg, Mean (SD)	2.20 (3.65)	2.50 (3.50)	0.94 (2.95)
≥7% Increase in Body Weight, n (%)	3 (2.1)	8 (5.9)	4 (2.9)
Cholesterol change in mg/dl, Mean (SD)	-2.4 (27.99)	-4.73 (26.13)	3.65 (28.47)
LDL change in mg/dL, Mean (SD)	-4.38 (22.63)	-5.71 (22.06)	4.07 (24.07)
HDL change in mg/dL, Mean (SD)	1.54 (10.46)	0.48 (13.27)	-2.16 (10.18)
Extrapyramidal Symptoms, TEAE			
Barnes Akathisia Rating Scale Score, Mean (SD)	0.0 (0.13)	0.0 (0.19)	0.1 (0.35)
Abnormal Involuntary Movement Scale Score, Mean (SD)	-0.0 (0.41)	-0.0 (0.28)	0.0 (0.48)
Simpson-Angus Scale Score, Mean (SD)	0.1 (0.42)	0.2 (0.48)	0.3 (0.71)

Brilaroxazine Phase 3 RECOVER Trial in Stable Schizophrenia

Safety, Tolerability and Compliance (open-label trial for 52-week/1-year, N=446)

Variables	Brilaroxazine 15 mg (N=140)	Brilaroxazine 30 mg (N=158)	Brilaroxazine 50 mg (N=148)	Pooled (N=446)
Number of Treatment Emergent Adverse Event (TEAE)	85	91	104	280
Patients with any TEAE, n (%)	50 (35.7%)	49 (31.0%)	67 (45.3%)	106 (37.2%)
Patient with any related TEAE, n (%)	6 (4.3%)	13 (8.2%)	19 (12.8%)	38 (8.5%)
Discontinuation due to TEAE , n (%)	0	3(1.9%)	2 (1.4%)	5 (1.1%)
TEAE occurring in >2% participants				
Headache	1 (0.7%)	7 (4.4%)	4 (2.7%)	12 (2.7%)
Insomnia	3 (2.1%)	5 (3.2%)	10 (6.8%)	18 (4.0%)
Sleep Disturbance	2 (1.4%)	2 (1.3%)	9 (6.1%)	13 (2..9%)
Tremor (mild)	1 (0.7%)	3 (1.9%)	10 (6.8%)	14 (3.1%)
Metabolic Changes (weight and lipids), TEAE				
Body Weight Change in kg, Mean (SD)	1.58 (4.96)	1.85 (2.23)	1.28 (2.95)	1.52 (3.49)
≥7% Increase in Body Weight (AESI), n (%)	3 (2.1%)	2 (1.3%)	6 (4.1%)	11 (2.5%)
Cholesterol change in mg/dL, Mean (SD)	-8.6 (31.01)	-5.5 (23.50)	-10.9 (28.86)	-8.3 (27.82)
LDL change in mg/dL, Mean (SD)	-8.4 (25.52)	-4.5 (22.33)	-11.1 (24.57)	-8.0 (24.19)
HDL change in mg/dL, Mean (SD)	-0.6 (9.34)	-0.9 (8.72)	-0.1 (9.38)	-0.6 (9.12)
Extrapyramidal Symptoms, TEAE				
Barnes Akathisia Rating Scale Score, Mean (SD)	0.0	0.0	0.0	0.0
Abnormal Involuntary Movement Scale Score, Mean (SD)	-0.0 (0.29)	-0.2 (0.59)	-0.0 (0.36)	-0.0 (0.41)
Simpson-Angus Scale Score, Mean (SD)	0.0	0.1 (0.43)	0.0	0.0

Brilaroxazine Phase 3 Trial: Bodyweight Change in Acute vs Stable Patients

Bodyweight change in acute in-patient trial over 4 weeks vs stable out-patient trial over 1 year

Change from Baseline Mean (SD), Kg	Acute Patients DB Inpatient Trial	Stable Patients OLE Outpatient Trial	
	4-Week | N=411	24-Week | N=303	52-Week | N=159
Brilaroxazine 15 mg	2.20 (3.65)	0.32 (3.06)	1.56 (5.06)
Brilaroxazine 30 mg	---	0.67 (1.90)	1.88 (2.32)
Brilaroxazine 50 mg	**2.50 (3.50)**	**0.62 (2.69)**	**1.28 (2.95)**
Placebo	0.94 (2.95)	---	---

	Bodyweight change in rollover patients, double-blind through OLE treatment over 13 months
Brila-50 mg, Mean Change (N=23) Efficacious top dose	1.20 kg

DB = Double-blind; OLE = Open label extension; EOT = End of Treatment

Brilaroxazine Phase 3 Trial: Lipids Change in Acute vs Stable Patients

Lipids change in acute in-patient trial over 4 weeks vs stable out-patient trial over 1 year

Change from Baseline Mean (SD)	Change in total Cholesterol, mg/dL		Change in LDL Cholesterol, mg/dL	
	Acute Patients (N=411) DB, 1-month	Stable Patients (N=446) OLE, 12 Months	Acute Patients (N=411) DB, 1-month	Stable Patients (N=446), OLE, 12 Months
Brilaroxazine 15 mg	– 2.4 (27.99)#	– 8.6 (31.01)	– 4.38 (22.63) #	– 8.4 (25.52)
Brilaroxazine 30 mg	---	– 5.5 (23.50)	---	– 4.5 (22.33)
Brilaroxazine 50 mg	**– 4.73 (26.13)#**	**– 10.9 (28.86)***	**– 5.71 (22.06) #**	**– 11.1 (24.57)***
Placebo	3.65 (28.47)	---	4.07 (24.07)	--

#p<0.05 vs placebo (DB) **p<0.05 vs baseline (OLE)*

DB = Double-blind; OLE = Open label extension; EOT= End of Treatment

Brilaroxazine: Strong Efficacy & Well-Tolerated Safety with Low Discontinuation Over 1-Year

RECOVER Phase 3 trials in acute and stable schizophrenia patients (total patients enrolled, N=857)

Strong, Durable Efficacy over 1 year	Brilaroxazine demonstrated a significant, sustained, and durable broad-spectrum efficacy in both acute and stable schizophrenia patients with <1% patients reported symptom relapse on treatment over 1-year of treatment. A strong, consistent treatment adherence both in acute and stable patients
Well-Tolerated over 1 year	Brilaroxazine is safe and well-tolerated following 1-year of treatment. Most common TEAEs were headache, insomnia, sleep disturbance. No drug related SAEs or major safety concerns reported.
No Motor Side Effects	No clinically meaningful changes in movement disorder scales used for evaluating motor side effects such as akathisia and extrapyramidal symptoms
Low Metabolic Side Effects	Mild weight gain (1.52 kg) reported in the pooled brilaroxazine dose group treatment over 1 year. Weight gain was not dose dependent with least weight gain (1.28 kg) at 50 mg dose. Decrease in lipid levels (cholesterol, LDL cholesterol) and no significant change in blood sugar levels reported
No Endocrine / Sexual Effects	Brilaroxazine is not associated with hormonal imbalance and sexual side effects. Elevated prolactin levels reported at the beginning of the study were significantly reduced to normal or near normal in all three dose groups. Improvement in thyroid hormone levels and sexual function reported
No Cardiac, GI & Liver Side Effects	No incidence of clinically significant cardiac or gastrointestinal side effects No incidence of drug induced liver injury (DILI)

TEAE: treatment emergent adverse events; SAE: serious adverse events

Lower Drug-Drug Interactions (DDIs) with Brilaroxazine vs. Standards of Care

DDIs and polypharmacy alter plasma drug concentrations, and can impact efficacy and side effect profiles of a drug[11]

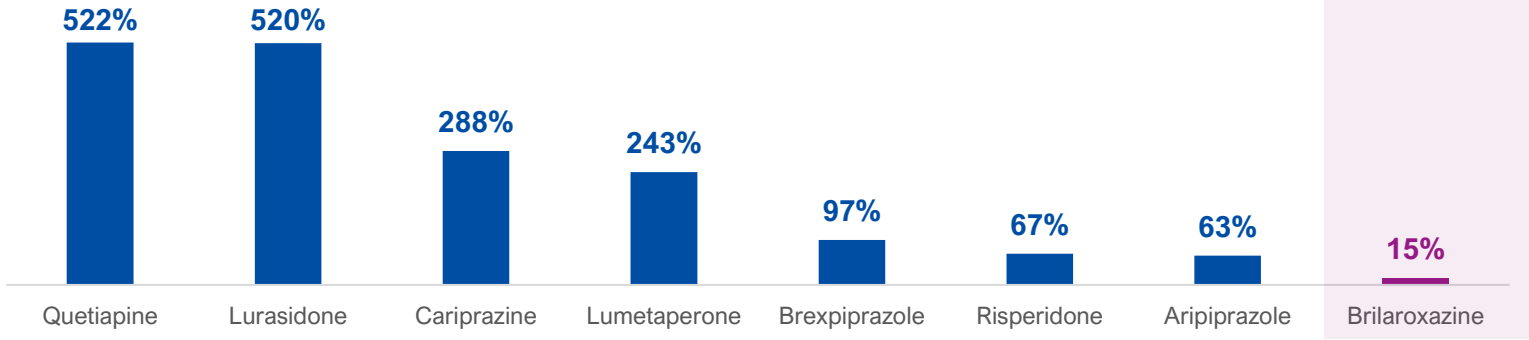
~50% of prescribed drugs and over 25% of approved antipsychotics are known to cause drug interactions in the presence of a strong CYP3A4 inhibitor drug

Change in drug concentration with a CYP3A4 Inhibitor[1]

Antipsychotic	Fold increase vs brilaroxazine
Brilaroxazine	--
Aripiprazole	4.2x
Risperidone	4.5x
Brexpiprazole	6.5x
Lumetaperone	16.2x
Cariprazine	19.2x
Lurasidone	34.7x
Quetiapine	34.8x

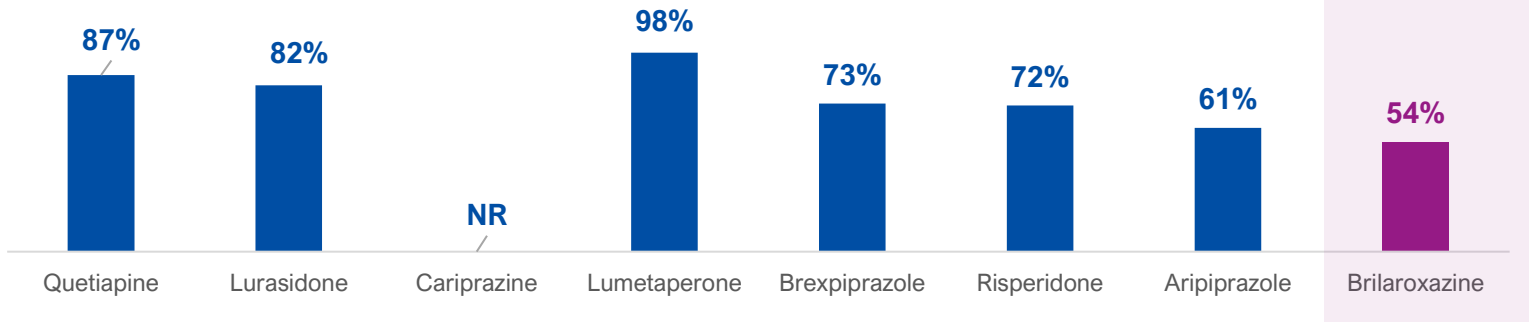
*Olanzapine[9] not evaluated; metabolized by CYP1A2[10]

% Increase in drug concentration (AUC) with a **CYP3A4 Inhibitor**



Lower is better

% Decrease in drug concentration (AUC) with a **CYP3A4 Inducer**



(1) Brilaroxazine data vs standard of care antipsychotic historical data. Bhat L et al, ASPET 2023 (poster #376); (2) Aripiprazole (Abilify) NDA document, 2001; (3) Mahatthanatrakul et al, J Clin Pharm Thera 2007, 32(2):161-167 ; (4) Brexpiprazole (Rexulti) NDA document, 2014; (5) Lumetaperone (Caplyta) NDA document, 2018; (6) Cariprazine (Vraylar) NDA document 2014; (7) Pharmaceuticals 2020; (8) Quetiapine (Seroquel); Grim et al., Brit J Clin Pharm 2005, 61(1):58-69; (9) Olanzapine NDA document; (10) Vilckova et al., Onco Lett 2023, 25:85; (11) Bole B et al, Medicina 2023, 59:284. NR: not reported

Positive Registrational Trials for Brilaroxazine in Schizophrenia

- **Completed required NDA-enabling safety pharmacology, toxicology & carcinogenicity studies, & CMC development**
- **In light of successful completion of the RECOVER double-blind study and OLE, Reviva is currently assessing appropriate next steps in Brilaroxazine's path to approval**

PHASE 1A and 1B, Clin Pharm Studies (N≈150)	**PHASE 2 REFRESH** NCT01490086	**PHASE 3 RECOVER DB** NCT05184335	**PHASE 3 RECOVER OLE** NCT05184335
Phase 1A Healthy subjects, double-blind, safety and tolerability, pharmacokinetics (PK)	**N = 234 (4-Week) Acute schizophrenia or schizoaffective disorder**	**N = 411 (4-Week) Acute schizophrenia**	**N = 446 (52-Week/1-Year) Stable schizophrenia**
Phase 1B Stable schizophrenia patients, double-blind, POC efficacy, safety and tolerability, PK	Efficacy and safety of brilaroxazine vs placebo	Efficacy and safety of brilaroxazine vs placebo	Long-term safety/tolerability, efficacy and compliance of brilaroxazine
ADME & Bioavailability Once daily brilaroxazine, ~72% bioavailability	3:3:2 Randomized, 4-week, double-blind, placebo-controlled, multicenter	1:1:1 Randomized, 4-week, double-blind, placebo-controlled, multicenter	Open label,1-year outpatient extension of RECOVER
Drug-Drug Interactions No clinically significant drug-drug interactions	Once daily brilaroxazine 15, 30, 50 mg	Once daily brilaroxazine 15, 50 mg	Once daily brilaroxazine 15, 30, 50 mg flexible dose
	Completed and met primary and multiple secondary endpoints	Completed and met primary and multiple secondary endpoints	Completed and met primary and multiple secondary endpoints

DB: Double-blind; OLE: Open Label Extension

Brilaroxazine Phase 2 and Phase 3 Trials Efficacy Data Comparison

Early onset of action with progressive and durable broad-spectrum efficacy sustained over 52 weeks (1 year)

	Phase 2 REFRESH (DB, 4-Week) Acute Schizophrenia		Phase 3 RECOVER (DB, 4-Week) Acute Schizophrenia		Phase 3 RECOVER (OLE, 1 Year) Stable Schizophrenia
	Brilaroxazine 50mg vs Placebo		Brilaroxazine 50mg vs Placebo		Brilaroxazine (15/30/50mg)[P]
Symptom Domains	**Point Decrease / Improvement**	**P-Value (Effect Size)**	**Point Decrease / Improvement**	***P-Value (Effect Size)***	**Point Decrease / Improvement**
Primary Endpoint: PANSS Total Score	-9.1	*< 0.001 (1.15)*	-10.1	*< 0.001 (0.6)*	-18.1
PANSS Positive Symptoms	-2.6	*<0.01 (1.31)*	-2.8	*< 0.001 (0.5)*	-5.0
PANSS Negative Symptoms	-2.3	*<0.01 (0.78)*	-2.0	*<0.01 (0.4)*	-4.4
PANSS Negative Marder Factor	-1.6♦	*0.04 (0.70)*	-2.1♦	*< 0.001 (0.4)*	-4.4♦
PANSS Social Cognition	-1.7	*<0.01 (0.90)*	-1.6	*< 0.001 (0.5)*	-2.9
PANSS Excitement/Agitation	-1.9	*0.01 (0.70)*	-2.1	*< 0.001 (0.5)*	-3.5
PANSS Gen Psychopathology	-4.3	*<0.01 (0.96)*	-5.3	*< 0.001 (0.6)*	-8.7
Personal & Social Performance	---	---	6.3	*< 0.001 (0.5)*	11.3
CGI-S Score	-0.5 *(≥1-point in 72%)*	*< 0.001 (1.25)*	-0.5 *(≥1-point in 78%)*	*< 0.001 (0.5)*	-0.8 *(≥1-point in 59%)*
Treatment Discontinuation	12% (vs. placebo 28%)		16% *(vs. placebo, 22%)*		35%

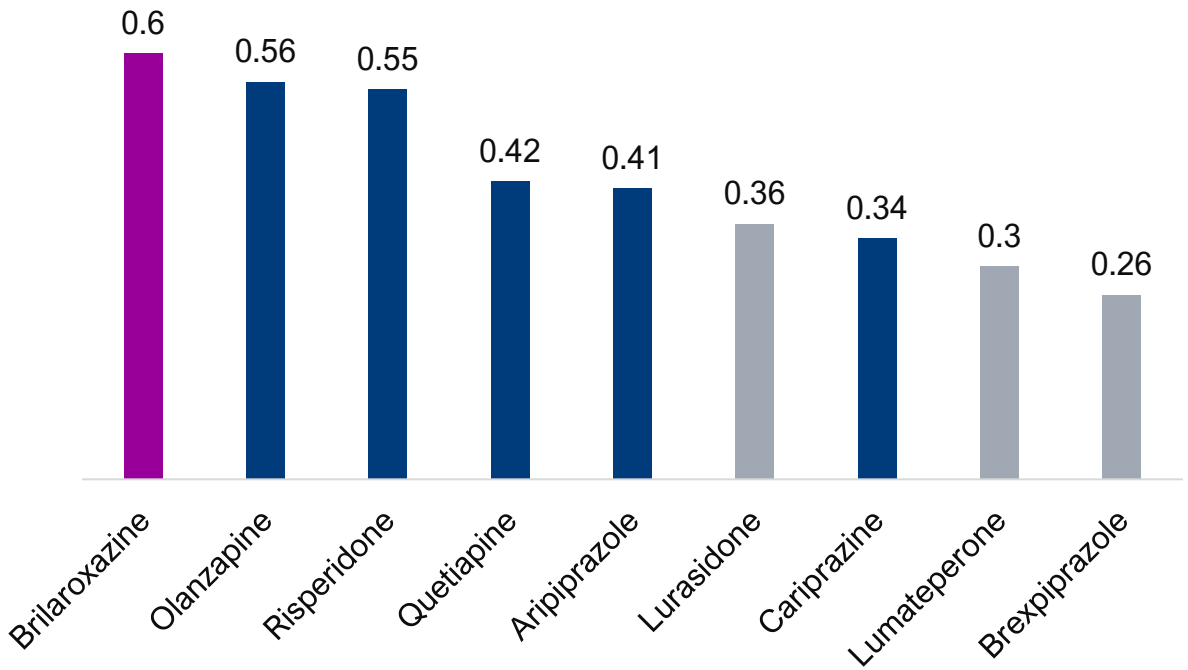
♦Significant improvement in Marder scores for depression, hostility and disorganized thoughts

DB=Double-blind (4-week/1 month); OLE=Open-Label Extension (52-week/1 year); P=pooled data of 15, 30 and 50mg doses

Comparison of Treatment Effect Size: Brilaroxazine vs Standard of Care Antipsychotics

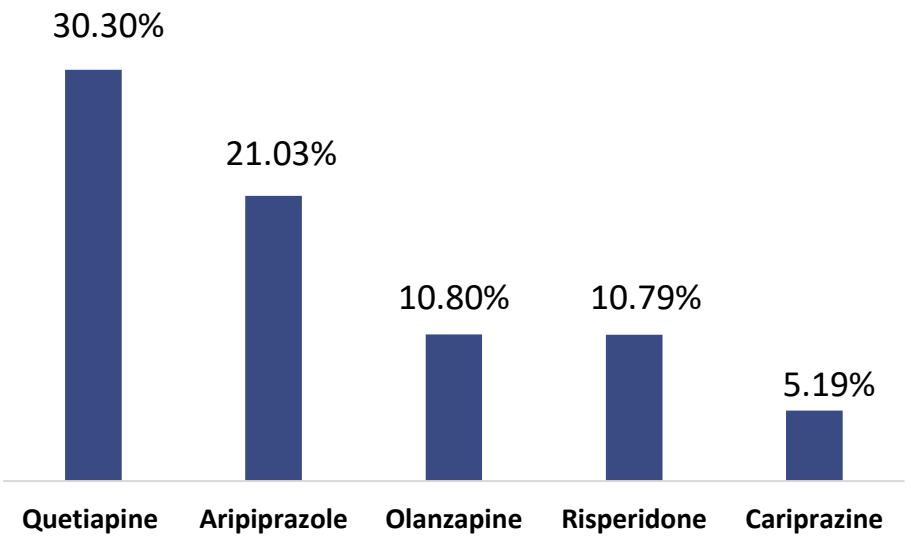
Phase 3 data of brilaroxazine (50 mg) vs. historical data of current standard of care antipsychotics

Brilaroxazine[1] vs Marketed Antipsychotics[2,3]



Top 5 Antipsychotics Market Share in 2024[4]

(United States)



Source: (1) Bhat L et al ASCPT 2024 (Poster #LB008) and SIRS 2024 (Poster #T291); (2) Huhn M et al. Lancet 2019, 394:939-951; (3) Correll CU et al. JAMA Psychiatry 2020, 77(4):349-358 ; (4) Definitive Healthcare 2025

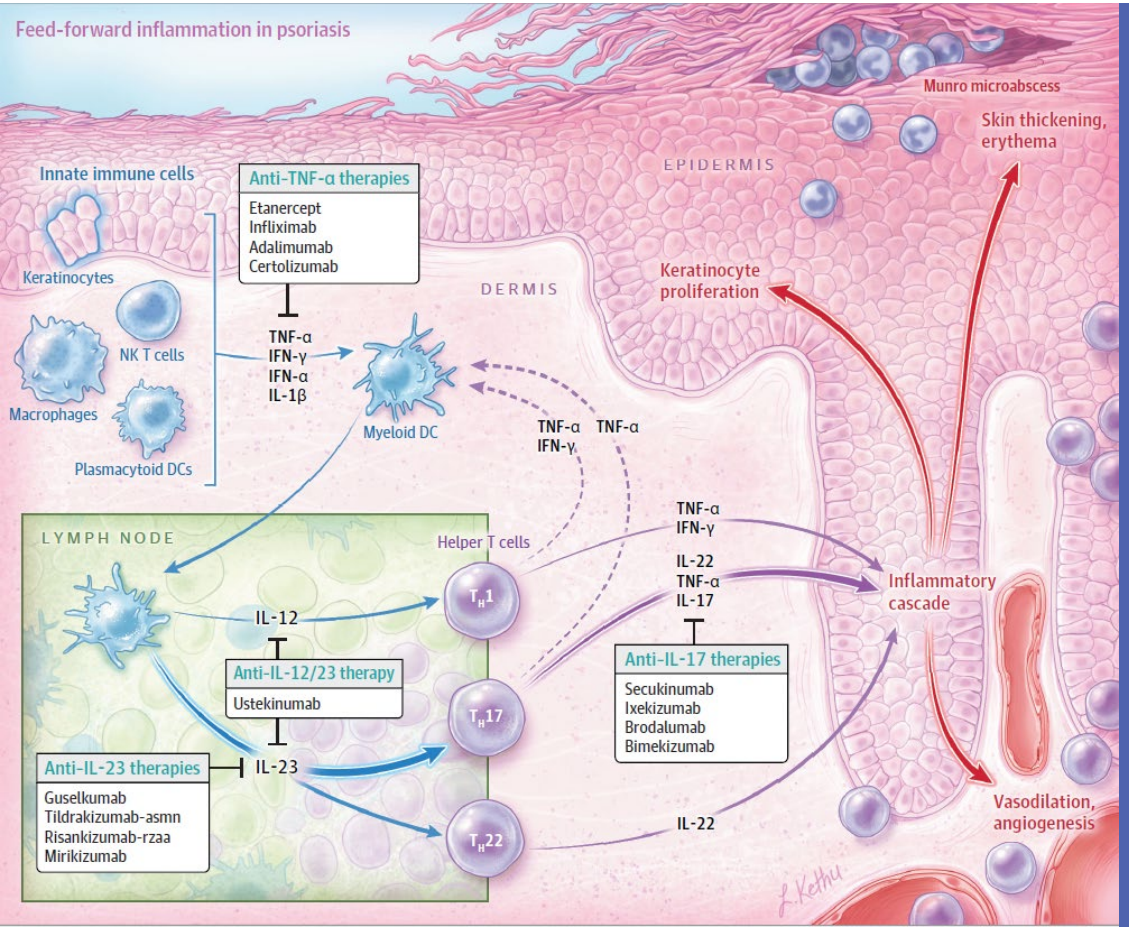
Reviva PHARMACEUTICALS

Inflammatory / Immune Disease Programs

Psoriasis | Pulmonary Arterial Hypertension (PAH) | Idiopathic Pulmonary Fibrosis (IPF)

Brilaroxazine has Potential to Treat Psoriasis

Inflammatory skin disease driven by dysfunctional serotonin-dopamine signaling



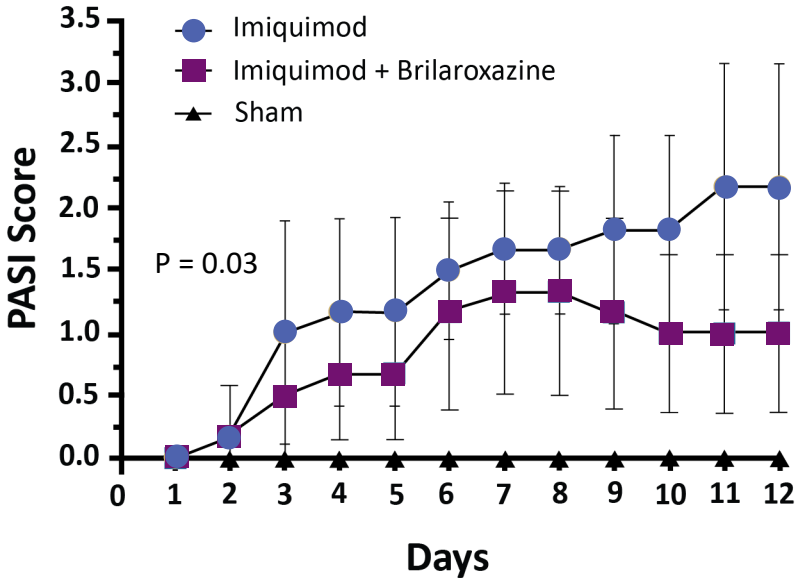
- Approx 3% of the US population and an estimated 125 million people worldwide suffer from psoriasis
- An estimated one-third of neuropsychiatric and neurodegenerative disease patients suffer from psoriasis
- Currently there is no known cure for psoriasis
- Approved treatments for management of psoriasis
  - Topical corticosteroids therapies remain the cornerstone for treating mild psoriasis
  - Biologics that inhibit cytokines TNF-α, p40IL-12/13, IL-17, and p19Il-23, and oral PDE-4 inhibitor for moderate to severe plaque psoriasis

Bhat L et al. Skin Research & Technology 2024, 30;e13606; Sara Berg, AMA 2023; Armstrong AW. Pathobiology, clinical presentation, and Treatment of psoriasis, JAMA 2020, 323(19):1945-1960;

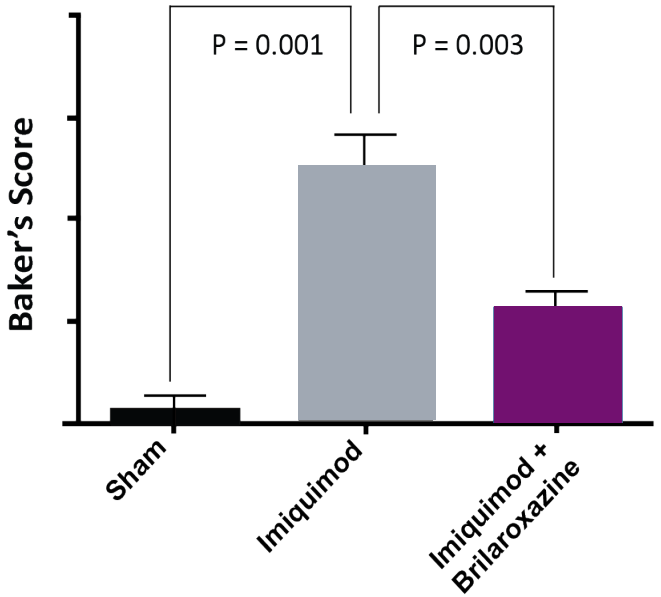
Brilaroxazine Demonstrated Encouraging Preclinical Efficacy

In an imiquimod induced mouse model of psoriasis

Psoriasis Area Severity Index (PASI)



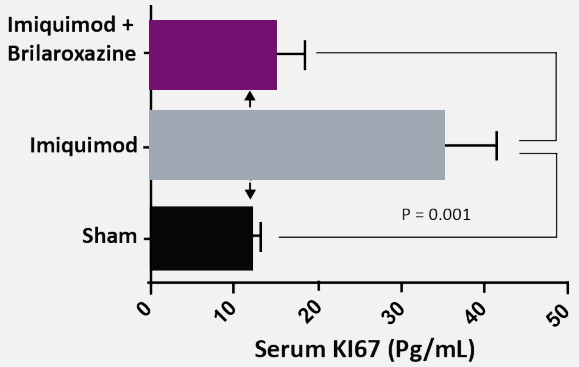
Psoriasis Severity by Baker Score

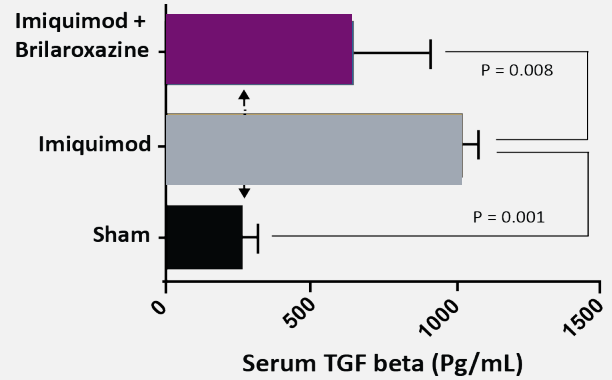


Brilaroxazine topical liposomal gel significantly decreased

- Psoriasis area severity index (P= 0.03)
- Clinical severity of psoriasis, Baker score (p=0.003)
- Proinflammatory and proliferation cytokine, KI67 (P=0.001)
- Profibrotic chemokine, TGF-β (P=0.001)

Decrease in anti-inflammatory and proliferation cytokine (KI67) and profibrotic chemokine (TGF-β)



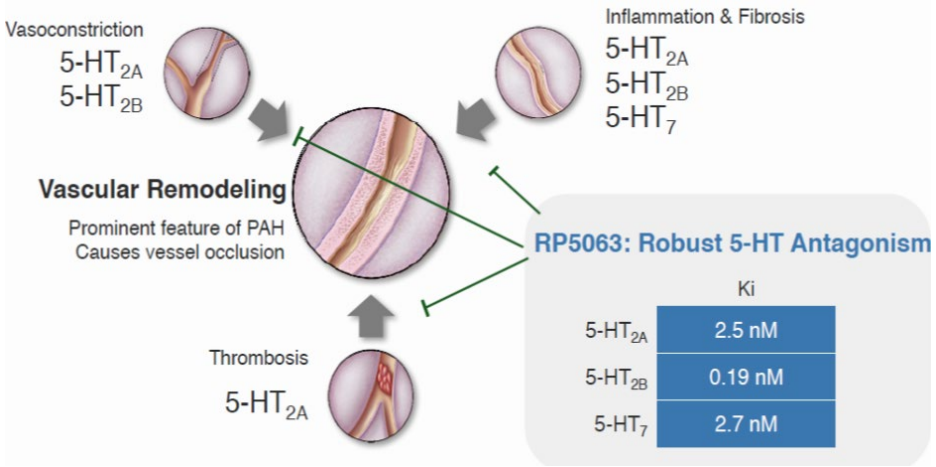


Bhat L, et al. Brilaroxazine lipogel displays psoriasis activity in imiquimod-induced mouse model. *Skin Res Technol*. 2024;e13606. https://doi.org/10.1111/srt.13606

Brilaroxazine: Potential to Delay PAH and IPF Disease Progression

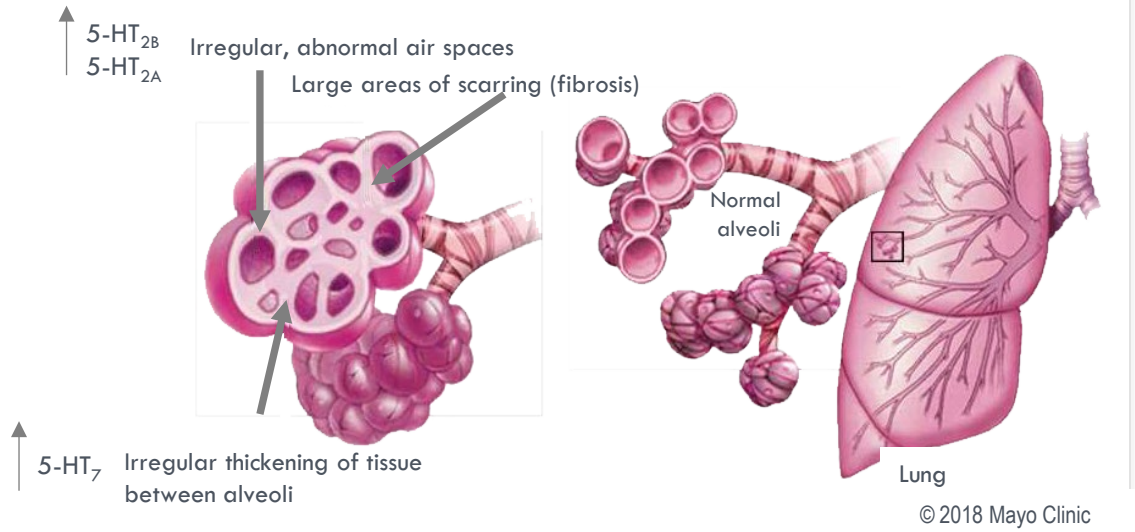
PAH and IPF are Orphan Diseases that involve dysfunctional serotonin signaling

Lung Vascular Remodeling in PAH



- PAH and IPF are rare, chronic, and debilitating conditions
- No therapies significantly delay disease progression
- Patients experience elevated plasma serotonin (5-HT) levels, increased expression of 5-$HT_{2A/2B/7}$ receptors & inflammatory cytokines in lungs

Lung Alveoli Remodeling in IPF



- Lung vascular/alveoli remodeling occurs due to inflammation, fibrosis, and pulmonary hypertension
- Brilaroxazine has robust antagonism against serotonin receptors involved in vasoconstriction, fibrosis, blood clots, and inflammation

Bhat L, et al. Medical Research Archives 2023, 11(4):3837; Bhat et al., Eur J Pharmacol 2018, 827:159-166; Lofdahl et al, Am J Pathobiology 2018, 188(5): 1113-1119; Tawfik and Makary, European J Pharmacology 2017, 814: 114-123; Pulmonary fibrosis image adapted from https://tinyurl.com/y9r6ld48

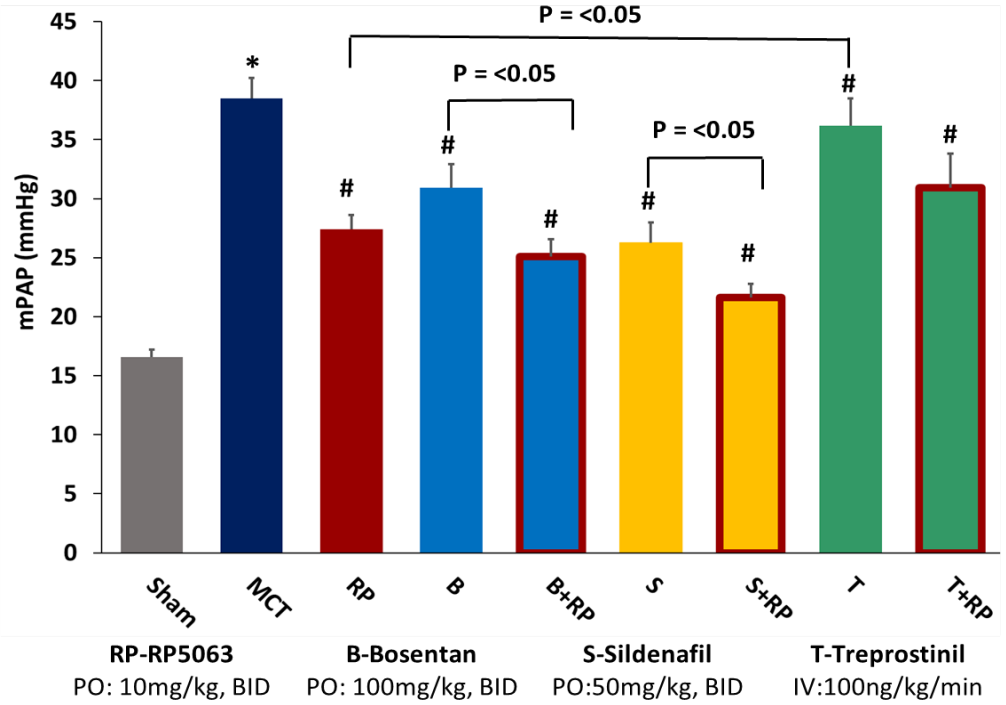
Brilaroxazine: Encouraging Results in PAH Translational Rodent Models

Potential for Improved Treatment Effect Compared to Standard of Care

Brilaroxazine alone and co-administered with standard of care for PAH

- Mitigated PAH in MCT and Sugen-Hypoxia rodent models
- Decreased respiratory resistance and restored blood oxygen saturation
- Decreased vascular remodeling and fibrosis in the small vessels
- Mitigated inflammation & reduced small vessel thickness
- Significantly reduced inflammatory cytokines TNFα, IL-β, IL-6, and chemokine LTB4

Brilaroxazine mitigates pulmonary hypertension and lung fibrosis/collagen



Bhat and Salvail, J Rare Dis Res Treat 2017, 2(5): 5-12. Bhat, et al. European J Pharmacology 2017, 810:83-91 and 92-99.
Bhat, et al. European J Pharmacology 2018, 827: 159-166.

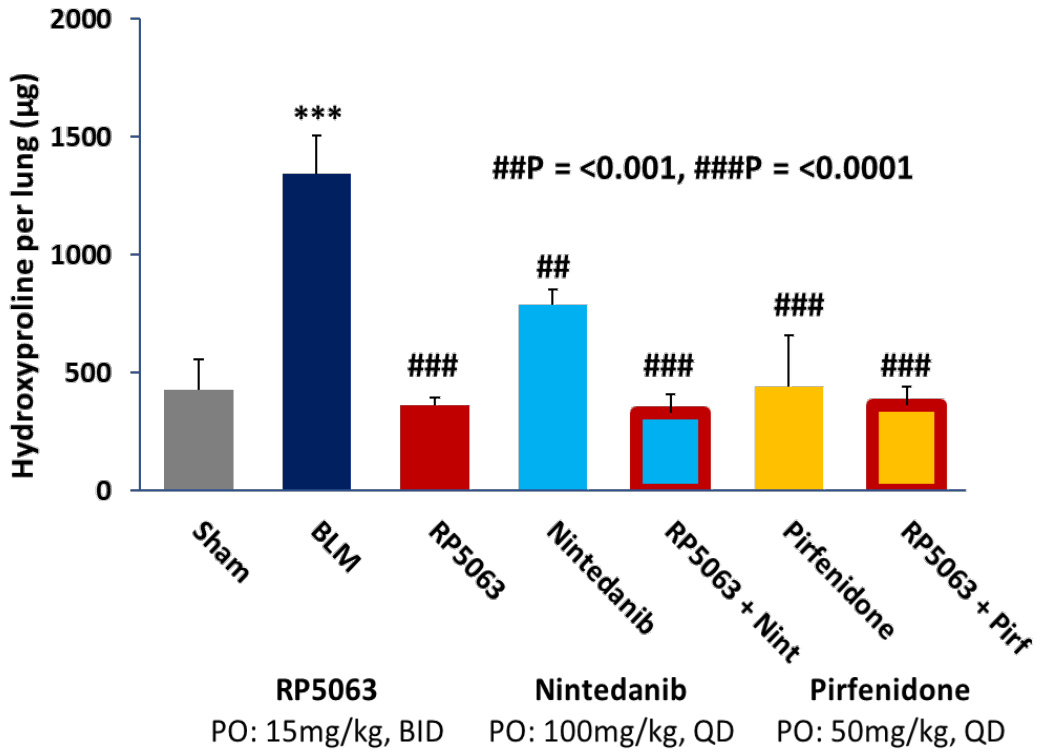
Brilaroxazine: Encouraging Results in Bleomycin-Induced IPF Rodent Model

Potential for Improved Treatment Effect Compared to Standard of Care

Brilaroxazine both alone and co-administered with standard of care for IPF

- Mitigated lung fibrosis and collagen deposits
- Decreased respiratory resistance & improved blood oxygen saturation
- Restored body weight and cardiac output
- Reduced the IPF biomarkers BALF cell counts, hydroxyproline, and blood lactate levels
- Decreased cytokines RANTES, IFNγ, MCP1, IL-6, and IL-17
- Improved survival rates

Brilaroxazine mitigates lung fibrosis / collagen (Decrease in Hydroxyproline)



Bhat L, et al. Medical Research Archives 2023, 11(4):3837

Brilaroxazine: Ready for Phase 2 Trials in PAH and IPF

FDA granted Orphan Drug Designation

Brilaroxazine Phase 2 trials in PAH and IPF

- Preclinical evidence supports the use of Brilaroxazine in PAH and IPF
- Generally well-tolerated in clinical studies for schizophrenia in >250 patients
- Completed long-term regulatory toxicology studies
- Manufactured API and drug products (clinical trial materials)
- Oral once daily dosing, potential to develop once daily inhaler for enhanced effect and convenience

Key regulatory milestones achieved

- FDA reviewed preclinical pharmacology, toxicology, CMC, and clinical Phase 1 safety data for initiating a Phase 2 study
- FDA reviewed and provided guidance on Phase 2/3 clinical development plan and a potential “Disease Modifying Agent” label claim
- FDA granted Orphan Drug Designation for the treatment of PAH and IPF

Reviva Pharmaceuticals Holdings, Inc.

General Inquiries

info@Revivapharma.com

Business Inquiries

busdev.rp@Revivapharma.com

Investor Relations Contact

IR@Revivapharma.com

Global Operations

U.S. Headquarters

Cupertino, CA, USA

International Offices

Bangalore, India

Reviva PHARMACEUTICALS