

Building Momentum for Patients with Myelofibrosis

Q1 2020

**NASDAQ: SRRA** 



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# MOMELOTINIB

Positioned to potentially provide benefits on all three myelofibrosis hallmarks: symptoms, anemia and spleen >20 studies Phase 1, 2 and 3



dosed with momelotinib



with myelofibrosis treated





# Myelofibrosis The Challenge of Anemia

*"Anemia is major area of unmet need… a quarter of the patients at the beginning may require transfusions, and after one year of therapy almost half of the patients already require transfusion"* 

> Srdan Verstovsek, MD, PhD Professor in the Department of Leukemia at The University of Texas MD Anderson Cancer Center, Houston

Unmet Medical Needs In Myelofibrosis; company conference call October 2018

# Three Hallmarks of a Progressive Disease



#### ANEMIA

Bone marrow cancer that significantly impairs red blood cell production

## 45% Transfusion Dependent

Many patients need regular blood transfusions to sustain life





Spleen tries to compensate by making blood cells, leading to pain and discomfort



### CONSTITUTIONAL SYMPTOMS

Patients also experience debilitating symptoms that dramatically impact their lives

34%





# Myelofibrosis Anemia: Myelofibrosis Anemia:



### Myelofibrosis Anemia: High Hepcidin & Severe Anemia Predict Poor Survival



Pardanani et al; American Journal of Hematology 2013

Nicolosi M et al; Leukemia. 2018

## Myelofibrosis Anemia: Reducing Hepcidin Restores Red Blood Cell Production





PLASMA IRON NORMALIZATION

Momelotinib-mediated plasma iron elevation leads to stimulation of erythropoiesis and red blood cell production

### Momelotinib:

### SIMPLIFY Data Strongly Support Benefits in Three Hallmarks of Myelofibrosis







### **Building Momentum for Patients with Myelofibrosis**

**LAUNCHED Q4 2019!** 

## Momentum P3 Trial: Phase 3 Registration Trial Schema



A Randomized, Double-Blind, Phase 3 Study to Evaluate the Activity of Momelotinib (MMB) versus Danazol (DAN) in Symptomatic, Anemic Subjects with Primary Myelofibrosis (PMF), Post-Polycythemia Vera (PV) Myelofibrosis, or Post Essential Thrombocythemia (ET) Myelofibrosis who were Previously Treated with JAK Inhibitor Therapy



\*Early crossover to open label in the event of confirmed symptomatic splenic progression

Danazol has been selected as an appropriate treatment comparator given its use to ameliorate anemia in myelofibrosis patients, as recommended by NCCN and ESMO guidelines.



# Momentum P3 Trial: Study Objectives



### **Primary Endpoint:**

 Total symptom score (TSS) response rate of momelotinib vs. danazol at Week 24 in symptomatic and anemic patients with PMF, post-PV myelofibrosis, or post-ET myelofibrosis who were previously treated with an approved JAK inhibitor therapy

### **Secondary & Exploratory Endpoints:**

- Transfusion independence (TI) rate at Week 24
- Splenic response rate (SRR) at Week 24
- Duration of TSS response for subjects treated with momelotinib
- Other measures of anemia benefit, including TD-TI rate and measures of cumulative transfusion burden
- Additional Patient Reported Outcomes, including assessments of fatigue and physical function



### Momentum P3 Trial: **Key Design Elements**



#### **Chief Investigator:**

Dr. Srdan Verstovsek, MD Anderson Cancer Center, Houston, Texas, USA

| Endpoint                      | Order & Powering                               | Supporting Data/Rationale  |
|-------------------------------|--|--|
| Symptom (TSS) response rate   | <b>Primary (W24)</b><br>99% powered; p<0.05    | FDA preferred measure of clinical benefit in myelofibrosis<br>Consistent and meaningful TSS responses in SIMPLIFY-1 and SIMPLIFY-2 |
| Transfusion Independence rate | <b>Secondary (W24)</b><br>>90% powered; p<0.05 | Favorable and statistically significant TI rates in SIMPLIFY-1 and SIMPLIFY-2  |
| Spleen (SRR) response rate    | <b>Secondary (W24)</b><br>>90% powered; p<0.05 | Defined washout allows for splenic rebound and SRR benefit<br>Non-inferior SRR benefit head-to-head vs ruxolitinib in SIMPLIFY-1   |
| Durability of TSS response    | Secondary (W48)                                | Durability of symptomatic benefit to W48 established in SIMPLIFY-1 and SIMPLIFY-2  |
| Other anemia measures         | Secondary & Exploratory                        | Consistent suite of benefits: TD-TI rates, improved hemoglobin, reduced transfusion frequency, etc.                                |

# Pronounced **Symptom Benefit**



# SIMPLIFY-2

### **Statistically Significant Symptom Response**

Momelotinib compared to best available therapy (~90% ruxolitinib) in 2<sup>nd</sup>-line patients

# 26.2% Total Symptom √ Score (TSS)

vs 5.9% best available therapy (BAT) (*p* < 0.001)

Baseline TSS was a stratification factor in SIMPLIFY-2



Primary Endpoint 99% Powered



TSS response is defined as the proportion of subjects who achieve a  $\geq$  50% reduction in TSS over the 28 days immediately prior to the end of Week 24 compared to baseline

# Maintenance of Transfusion Independence



vs 49% ruxolitinib

SIMPLIFY-2

vs 21% BAT (~90% ruxolitinib)

Statistically significant transfusion independence rate (p < 0.001) Statistically significant transfusion independence rate (p = 0.001)

MOMENTUM MYELOFIBROSIS CLINICAL TRIAL

Secondary Endpoint >90% Powered



Transfusion Independence response defined as the proportion of subjects who were transfusion independent at Week 24, where transfusion independence was defined as the absence of red blood cell (RBC) transfusion and no hemoglobin level below 8 g/dL in the prior 12 weeks

# Eliminating Need for Frequent **Transfusions**



Transfusion Dependence response defined as the proportion of transfusion dependent subjects who became transfusion independent for any 12 week or greater period on study, where transfusion independence was defined as the absence of RBC transfusion and no hemoglobin level below 8 g/dL

\*Data from Sierra's post-hoc analyses of SIMPLIFY-1 & SIMPLIFY-2 studies

# Dramatic Reduction in Odds of Being **Transfused**

"Overall, these highly persuasive statistical analyses further confirm that **momelotinib treatment elicits a substantive mechanistically-driven anemia benefit.**"

Dr. Ruben Mesa

Director of the Mays Cancer Center Home to UT Health San Antonio MD Anderson Cancer Center



Dec 2019

# SIMPLIFY-1

**Remarkable Reduction in Need for Transfusions** 

9.3x √

Odds of **not being transfused** on momelotinib compared to ruxolitinib

(p < 0.0001)









# Equivalent Clinical Benefit on **Splenomegaly**

SIMPLIFY-1 27% Splenic Response

vs 29% ruxolitinib (p=0.011)

Momelotinib clinically equivalent to ruxolitinib on spleen

Only JAKi to show comparable spleen response to ruxolitinib

MOMENTUM MYELOFIBROSIS CLINICAL TRIAL

Secondary Endpoint >90% Powered



# Momelotinib Safety: Favourable Toxicity Profile



# SIMPLIFY-1

| Common Adverse Event       | Momelotinib | Ruxolitinib |
|----------------------------|-------------|-------------|
| Thrombocytopenia*          | 19%         | 29%         |
| Diarrhea                   | 18%         | 20%         |
| Headache                   | 17%         | 20%         |
| Dizziness                  | 16%         | 12%         |
| Nausea                     | 16%         | 4%          |
| Fatigue                    | 15%         | 12%         |
| Anemia**                   | 14%         | 38%         |
| Abdominal Pain             | 10%         | 11%         |
| Grade 3 or 4 Adverse Event | Momelotinib | Ruxolitinib |
| Thrombocytopenia*          | 7%          | 5%          |
| Anemia**                   | 6%          | 23%         |
| Diarrhea                   | 3%          | 1%          |
| Hypertension               | 3%          | 4%          |
| Neutropenia                | 3%          | 5%          |

\*dose reduction/interruption for thrombocytopenia: Momelotinib = 5.6% Ruxolitinib = 24.5% \*\*dose reduction/interruption for anemia: Momelotinib = 1.4% Ruxolitinib = 6.0%

|                                   | Momelotinib<br>(n=214) | Ruxolitinib<br>(n=216) |
|-----------------------------------|------------------------|------------------------|
| AEs                               | 92%                    | 95%                    |
| Grade 3 or 4 AE                   | 34%                    | 44%                    |
| ≥Grade 3 AE Related to Study Drug | 21%                    | 29%                    |
| Serious AE                        | 23%                    | 18%                    |
| Serious AE Related to Study Drug  | 7%                     | 6%                     |

Momelotinib Safety:

- No Adverse Event concerns flagged in our Regulatory interactions
- No evidence of cumulative toxicity/safety issues in long-term dosing and follow-up



### Momentum Phase 3 Trial: Key Trial Assumptions





Patients: 180 (2:1 randomization)

Territory: Global study (North America, EU, APAC, etc.)

\*\*Assuming priority regulatory review; Fast Track granted June 2019



## Momelotinib: Totality of Data to Support Potential Registration



#### PHASE 3 CLINICAL TRIAL

#### Pivotal study data

~180 subjects

- Primary endpoint: TSS response rate (99% powered; p < 0.05)</li>
- · Secondary endpoints:
  - Transfusion Independence rate
  - Spleen (SRR) response rate
  - Durability of TSS response
  - Other anemia measures

### SIMPLIFY-1 SIMPLIFY-2

#### Patient data from completed P3 studies >550 subjects

- Statistically non-inferior spleen response vs ruxolitinib (S-1; p = 0.011)
- Statistically significant TSS response vs BAT/ruxolitinib (S-2; p < 0.001)
- Statistically significant transfusion independent rates (S-1; p < 0.001) (S-2; p = 0.001)
- Crossover data: momelotinib efficacy and safety data in patients who switch from ruxolitinib (S-1) or BAT/ruxolitinib (S-2) after Week 24

### **XAP** EXTENDED ACCESS PROGRAM

#### Long term treatment data

- Durable response data (some patients treated >8 years)
- Long term safety and tolerability data



# Momelotinib Market Opportunity\*

### Diagnosis

- ~50K patients living with myelofibrosis
- ~75% are intermediate/high risk

#### Favorable patent exclusivity

 potential extensions to 2040\*\* provide a compelling commercial opportunity 1<sup>st</sup>-Line
~70% receive 1<sup>st</sup>-line treatment
~25% of Int/High risk myelofibrosis patients are transfusion dependent at diagnosis
2<sup>nd</sup>-Line
>75% will need 2<sup>nd</sup>-line treatment
>70% of Int/High risk myelofibrosis patients have anemia
>50% of patients are transfusion dependent



# Clinician Enthusiasm For Momelotinib Supports 1L & 2L Market Opportunity

"The dual mechanism and clinical data... point to a strong anemia benefit, so I would definitely look to prescribe this in my **front-line** patients who have severe anemia"

US High Volume Prescriber\* *February 2020* 

*"The majority of patients in* **second-line** would potentially be candidates for momelotinib."

> Dr. Srdan Verstovsek *June 2019*

"Transfusions can be a major problem for patients and this product shows a clear benefit for transfusion independence in all studies, so I would use it in the majority of my **front-line** patients with severe anemia"

#### Momelotinib Market Opportunity:

- 1L patients with severe anemia or transfusion dependency
- 2L broad utility across all patients; particularly anemic/cytopenic

# Momelotinib: Strong Endorsement from Gilead



Improved agreement and commitment from Gilead meaningfully enhances the potential long-term value of momelotinib for Sierra and its stockholders:

- Gilead has become a stockholder in Sierra (~7%)
- Blended annual royalty rates payable to Gilead substantially reduced
- Net royalties range from very low double digits (sub-\$B revenue) to teens (>\$B revenue)
- Milestone payment eliminated that would have been due to Gilead upon initiation of MOMENTUM, further extending our financial resources

"Gilead continues to believe in the potential of momelotinib, and we are pleased that Sierra will continue development of the compound in hopes that it will benefit patients in the future."

Andrew Dickinson, Chief Financial Officer of Gilead





Late Stage Drug Development Company Oriented to Potential Registration and Commercialization

- Momelotinib differentiated JAKi potentially addressing all three hallmarks of myelofibrosis
  - MOMENTUM Phase 3 in 2<sup>nd</sup>-line myelofibrosis launched in Q4 2019
- Highly experienced management team with proven track record in drug development
- Strong financial standing:
  - \$147.5M in cash and cash equivalents (as of December 31, 2019)
  - Key investors include Vivo Capital, Longitude Capital, OrbiMed and Abingworth
  - Topline data warrant: Expires 75 days post-announcement; Potential ~\$34M in additional funding





