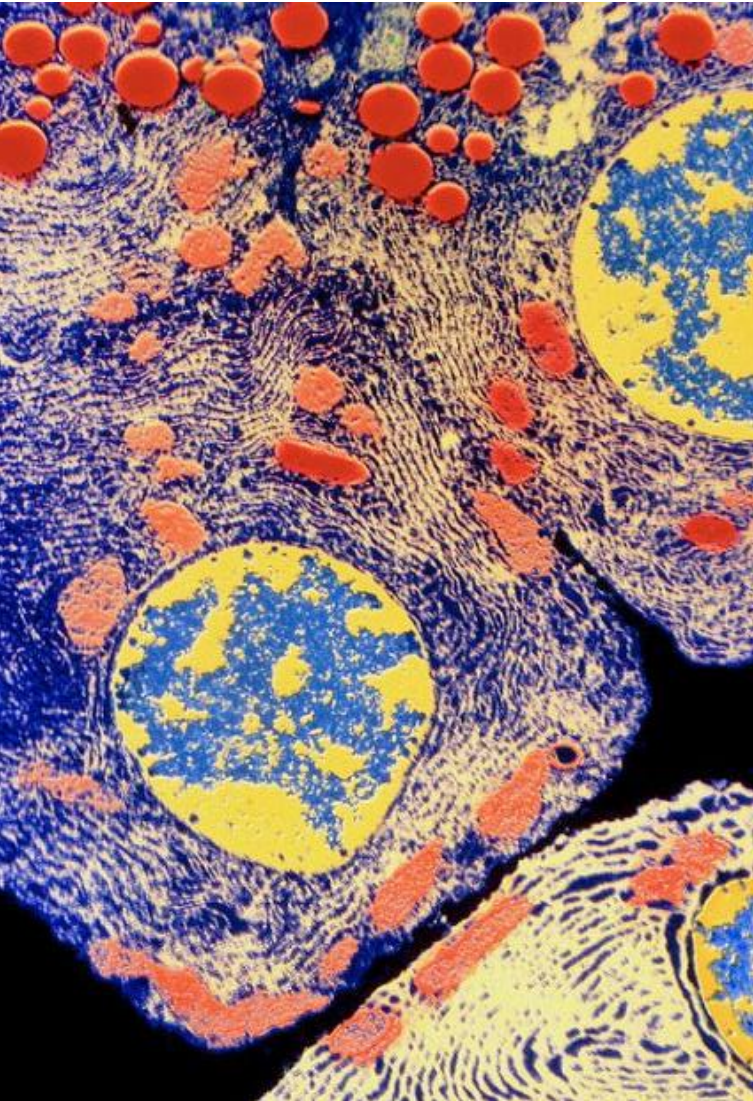




CalciMedica



# Developing Novel Therapies for Acute Inflammatory and Immunologic Diseases

## CARPO Trial Topline Results

June 27, 2024

# Forward-Looking Statements

This presentation contains forward-looking statements which include, but are not limited to, statements regarding CalciMedica's business strategy and clinical development plans; the design and potential benefits of CalciMedica's product candidates; CalciMedica's ongoing and planned clinical trials; the timing for CalciMedica's receipt and announcement of data from its clinical trials; the estimated patient populations and addressable market for CalciMedica's product candidates; and expectations regarding CalciMedica's cash runway. These forward-looking statements are subject to the safe harbor provisions under the Private Securities Litigation Reform Act of 1995. CalciMedica's expectations and beliefs regarding these matters may not materialize. Actual outcomes and results may differ materially from those contemplated by these forward-looking statements as a result of uncertainties, risks, and changes in circumstances, including but not limited to risks and uncertainties related to: the impact of fluctuations in global financial markets on CalciMedica's business and the actions it may take in response thereto; CalciMedica's ability to execute its plans and strategies; the ability to obtain and maintain regulatory approval for CalciMedica's product candidates; results from clinical trials may not be indicative of results that may be observed in the future; potential safety and other complications from CalciMedica's product candidates; economic, business, competitive, and/or regulatory factors affecting the business of CalciMedica generally; CalciMedica's ability to protect its intellectual property position; and the impact of government laws and regulations. Additional risks and uncertainties that could cause actual outcomes and results to differ materially from those contemplated by the forward-looking statements are included under the caption "Risk Factors" in CalciMedica's most recently filed periodic report, and subsequent periodic reports filed by CalciMedica, under the Securities Exchange Act of 1934, as amended, from time to time and available at [www.sec.gov](http://www.sec.gov). These documents can be accessed on CalciMedica's web page at [calcimedica.com](http://calcimedica.com).

These forward-looking statements are based on information available to, and expectations of, CalciMedica of the date of this presentation. CalciMedica disclaims any obligation to update these forward-looking statements, except as may be required by law.

# CARPO Topline Takeaways

- Primary objective was met with a dose response for multiple endpoints
  - Statistically significant for time to solid food tolerance in high hematocrit patients
  - Statistically significant for severe organ failure in the entire population
- Auxora was well-tolerated
- Auxora is ready for Phase 3 clinical development
  - Pending discussions with FDA following final data
  - Final data, including CT scan (baseline and 30-day) data, expected to be presented at a medical meeting later this year
- Reduction in severe organ failure increases confidence in our KOURAGE AKI trial
  - Magnitude in reduction similar to what was seen in CARDEA and Phase 2a AP trials

# Auxora Clinically Active and Well-Tolerated in Multiple Phase 2 Trials

| Population  | Trial Size                            | Results   |
|---|---------------------------------------|---|
| <b>Pancreas</b>   |                                       |   |
| Acute Pancreatitis<br>With SIRS (CARPO)   | N=216                                 | <ul style="list-style-type: none"> <li>• Topline results show:               <ul style="list-style-type: none"> <li>➢ Improvement in clinically significant endpoints</li> <li>➢ Statistically significant dose response for time to solid food tolerance in patients with hyper-inflammation</li> <li>➢ Statistically significant dose response in severe organ failure</li> </ul> </li> </ul> |
| Acute Pancreatitis<br>Accompanied by SIRS and Hypoxemia   | N=21                                  | <ul style="list-style-type: none"> <li>• Rapid increase in patients tolerating solid diet (potential trial pivotal endpoint)</li> <li>• &gt;2-day reduction in hospital stay and 50% reduction SIRS</li> </ul>  |
| Asparaginase-Induced Pancreatic Toxicity (CRSPA)  | N=9                                   | <ul style="list-style-type: none"> <li>• Trial ongoing, preliminary results show rapid resolution of pain and food tolerance</li> </ul>   |
| <b>Lung</b>   |                                       |   |
| COVID-19 with Respiratory Failure (CARDEA)<br>On LFO <sub>2</sub> <sup>1</sup> or HFNC <sup>2</sup> | N=284<br>(Part 2)<br>N=30<br>(Part 1) | <ul style="list-style-type: none"> <li>• 56% statistically significant decrease in mortality at Day 30</li> <li>• 33% reduction in ventilation</li> <li>• &gt;2-day shorter hospital stay</li> <li>• ~40% reduction in reported acute kidney injury</li> <li>• Mortality benefit in patients with compromised kidney function (low GFR)</li> </ul>  |
| COVID-19 with Respiratory Failure<br>On IMV <sup>3</sup>  | N=9                                   | <ul style="list-style-type: none"> <li>• Open-label trial with varying doses showing pharmacodynamic response</li> </ul>  |

# Differentiated Pipeline in Acute and Chronic Inflammatory and Immunologic Diseases

| Program <sup>1</sup>          | Indication   | Phase of Development |          |           |          | Anticipated Milestones   |
|-------------------------------|--|----------------------|----------|-----------|----------|--|
|                               |  | Preclinical          | Phase 1  | Phase 2   | Phase 3  |  |
| <b>Acute Disease (IV)</b>     |  |                      |          |           |          |  |
| Auxora                        | Acute Pancreatitis   | ████████             | ████████ | ████████▶ | ████████ | CARPO Phase 2b trial topline data released;<br>Final data expected in 2H2024 |
| Auxora                        | Asparaginase-Induced Pancreatic Toxicity in Pediatric Patients | ████████             | ████████ | ████████▶ | ████████ | CRSPA Phase 1/2 trial ongoing;<br>Data expected in 2025                      |
| Auxora                        | Acute Kidney Injury  | ████████             | ████████ | ████████▶ | ████████ | KOURAGE Phase 2 trial first patient expected 2Q24;<br>Data expected in 2025  |
| <b>Chronic Disease (Oral)</b> |  |                      |          |           |          |  |
| CM6336                        | Chronic Pancreatitis   | ████████▶            | ████████ | ████████  | ████████ | IND submission expected in 2025  |
| CM6336                        | Rheumatoid Arthritis   | ████████▶            | ████████ | ████████  | ████████ | IND submission expected in 2025  |

With CARPO results, Auxora is Phase 3 ready pending End-of-Phase 2 Discussion with FDA

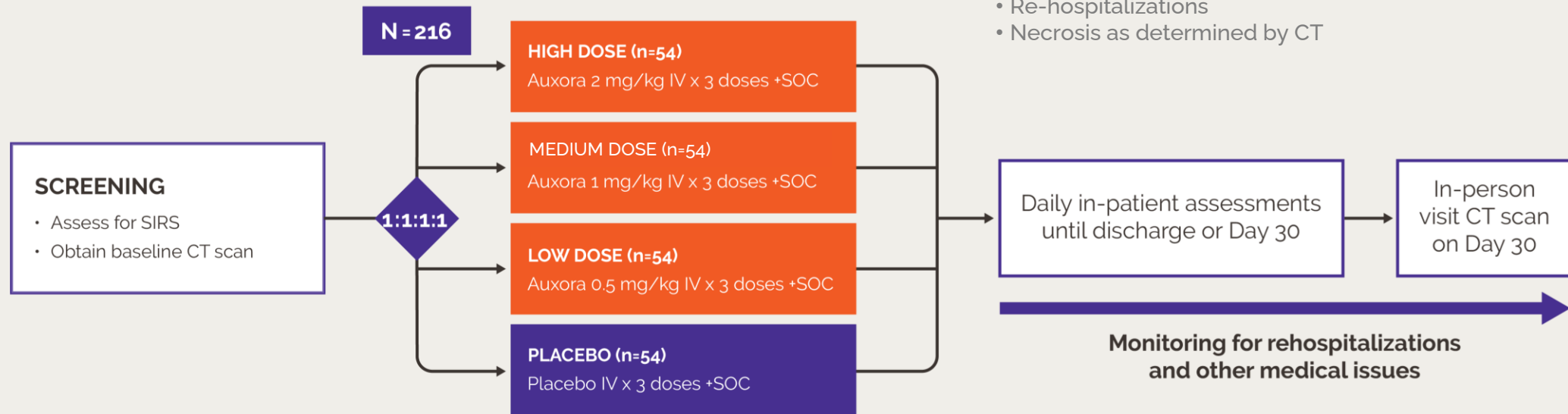
# CARPO Phase 2b Clinical Trial in AP

## Primary End Point

- Time to solid food tolerance

## Secondary Endpoints

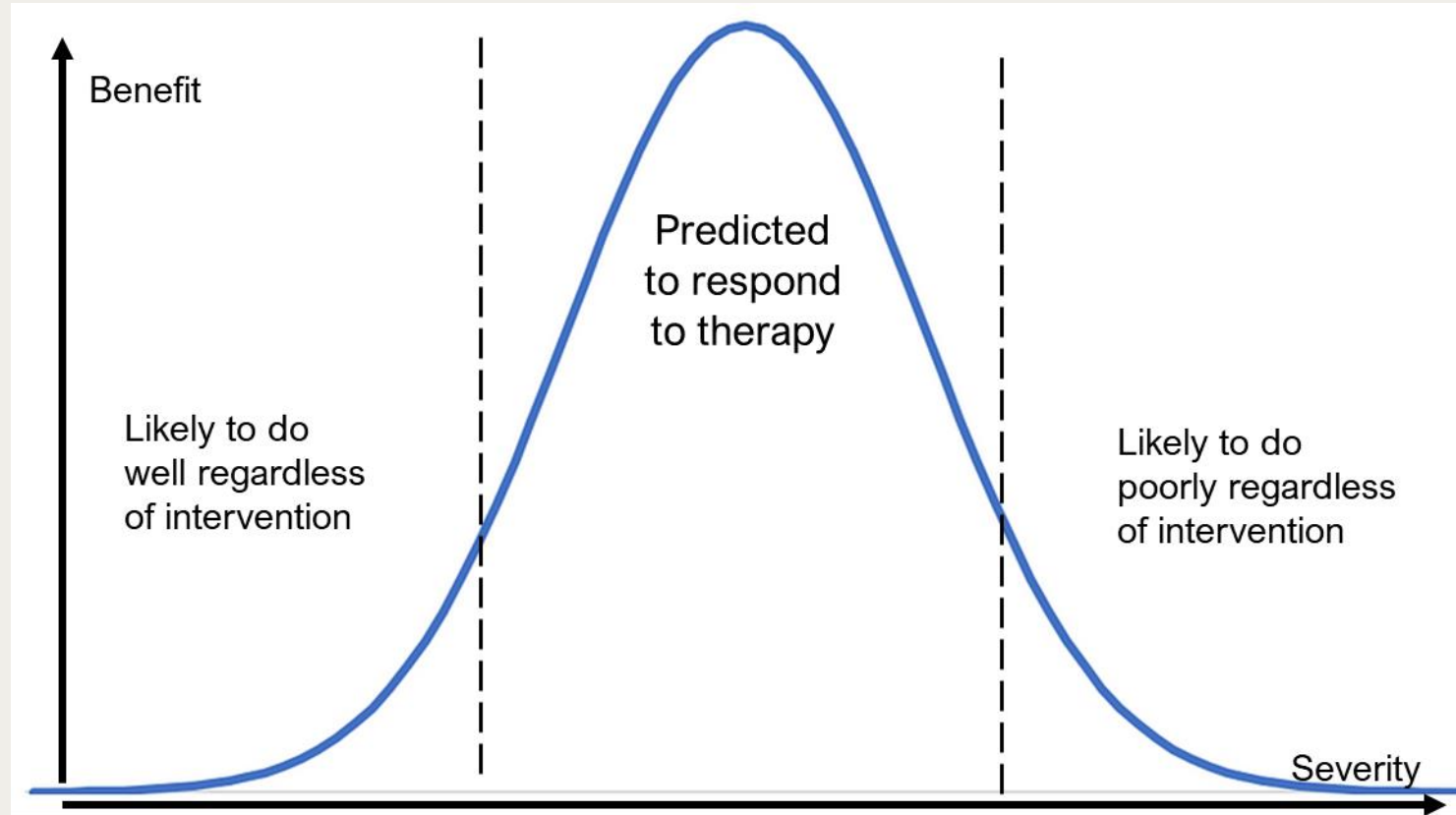
- Length of hospital stay
- Time to medically indicated discharged
- Severe organ failure
- Re-hospitalizations
- Necrosis as determined by CT



**Primary Objective: Dose Response on Primary and Secondary Endpoints**



# Defining Who to Treat: Patients with Acute Critical Illnesses



# Enrich CARPO for Patients with Hyperinflammatory Acute Pancreatitis

- CARPO added inclusion criteria to enroll pre-specified subgroup of patients with an elevated hematocrit
- Inclusion criteria in addition to SIRS
  - Hematocrit  $\geq 44\%$  for men or  $\geq 40\%$  for women, established biomarker for inflammation
    - HCT biomarker supported by Phase 2a AP trial results

| HCT at Baseline | #Patients | Initial NLR       | Max D-dimer ng/mL | Max CRP mg/L   | Max IL-6 pg/mL | ICU admission |
|-----------------|-----------|-------------------|-------------------|----------------|----------------|---------------|
| HCT $\leq 44\%$ | 13        | 8.41 (5.2, 13.2)  | 3996(1205, 13235) | 195 (86, 343)  | 108 (41, 442)  | 2/13 (15%)    |
| HCT $>44\%$     | 8         | 19.9 (13.2, 46.7) | 4245 (3685, 6205) | 380 (248, 395) | 391 (245, 849) | 6/8 (75%)     |

- A peripancreatic fluid collection or a pleural effusion on a CECT performed in the 24 hours before Consent or after Consent and before Randomization
- Abdominal examination documenting either abdominal guarding or rebound tenderness



# CARPO Baseline Characteristics

|  | Placebo<br>N=53        | 2.0 mg/kg<br>N=53      | 1.0 mg/kg<br>N=56      | 0.5 mg/kg<br>N=52      | Total Auxora<br>N=161  | Total<br>N=214          |
|--|------------------------|------------------------|------------------------|------------------------|------------------------|-------------------------|
| Age (Median)<br>(Min, Max)                   | 42<br>20, 78           | 42<br>19, 91           | 43.5<br>22, 84         | 48.5<br>23, 85         | 43<br>19, 91           | 43<br>19, 91            |
| Male (%)<br>Female (%)                       | 33 (62.3)<br>20 (37.7) | 33 (62.3)<br>20 (37.7) | 33 (58.9)<br>23 (41.1) | 32 (61.5)<br>20 (38.5) | 98 (60.9)<br>63 (39.1) | 131 (61.2)<br>83 (38.8) |
| HCT<br>( ≥44 males, ≥40 females)<br>(% of N) | 20<br>(37.7)           | 23<br>(43.4%)          | 25<br>(44.6%)          | 24<br>(46%)            | 72<br>(44.7%)          | 92<br>(43.0%)           |

Note: mITT was 214 patients as 2 enrolled patients did not receive study drug

# Time to Solid Food Tolerance

Statistical significance achieved on dose response in patients with hyperinflammatory AP

|                 |                    | Placebo      | 2.0 mg/kg   | 1.0 mg/kg   | 0.5 mg/kg   |
|-----------------|--------------------|--------------|-------------|-------------|-------------|
| n= 122          |                    | n= 33        | n= 29*      | n= 31       | n= 28       |
| Low Hematocrit  | 25 <sup>th</sup> % | 36.0         | 25.0        | 28.0        | 19.0        |
|                 | Median hours       | <b>62.0</b>  | <b>65.0</b> | <b>68.0</b> | <b>67.0</b> |
|                 | 75 <sup>th</sup> % | 137.0        | 100.0       | 353.0       | 184.0       |
| n= 92           |                    | n= 20        | n= 23*      | n= 25       | n= 24       |
| High Hematocrit | 25 <sup>th</sup> % | 41.5         | 13.0        | 20.0        | 37.0        |
|                 | Median hours       | <b>113.5</b> | <b>67.0</b> | <b>64.0</b> | <b>78.0</b> |
|                 | 75 <sup>th</sup> % | 187.0        | 117.0       | 113         | 187.5       |

\*One hematocrit missing at baseline

## Determination of solid food tolerance

- Patient offered a low fat, ≥500-calorie solid meal
- Patient consumes ≥50% of the meal without vomiting or an increase in abdominal pain in the two hours after the meal (as confirmed by clinical trial nurse)

# Length of Hospital Stay

|                     |                | Placebo<br>N=53 | 2.0 mg/kg<br>N=53 | 1.0 mg/kg<br>N=56 | 0.5 mg/kg<br>N=52 |
|---------------------|----------------|-----------------|-------------------|-------------------|-------------------|
| LOS mITT            | Median days    | 5.0             | 4.0               | 5.0               | 5.5               |
| LOS mITT            | Mean days      | 7.1             | 5.9               | 5.9               | 7.6               |
| LOS High Hematocrit | Mean days      | 7.8             | 6.3               | 5.7               | 7.9               |
| 22-30 days          | n subjects (%) | 3 (5.7)         | 0 (0.0)           | 1 (1.8)           | 3 (5.8)           |

# Severe Organ Failure

## Statistical significance achieved on dose response

|                              | Placebo<br>N=53 | 2.0 mg/kg<br>N=53 | 1.0 mg/kg<br>N=56 | 0.5 mg/kg<br>N=52 |
|------------------------------|-----------------|-------------------|-------------------|-------------------|
| Severe Respiratory (%)       | 4/53 (7.5)      | 2/53 (3.8)        | 2/56 (3.6)        | 5/52 (9.6)        |
| Severe Renal (%)             | 1/53 (1.9)      | 0/53 (0.0)        | 1/56 (1.8)        | 2/52 (3.8)        |
| Severe Cardiovascular (%)    | 1/53 (1.9)      | 1/53 (1.9)        | 1/56 (1.8)        | 3/52 (5.8)        |
| Any severe organ failure (%) | 5/53 (9.4)      | 2/53 (3.8)        | 2/56 (3.6)        | 5/52 (9.6)        |

### Definition of severe organ failure

- Severe respiratory failure defined as those patients receiving invasive mechanical ventilation (IMV) or those receiving for  $\geq 48$  hours use of either high flow nasal cannula (HFNC) or non-invasive mechanical ventilation (NIMV) (Use of NIMV for the treatment of obstructive sleep apnea not considered as meeting the definition of severe respiratory failure)
- Severe renal failure defined as the initiation of renal replacement therapy
- Severe cardiovascular failure defined as the use of vasopressor or inotropic support for  $\geq 48$  hours

# Serious Adverse Event Summary

|   | Placebo<br>N=53 | 2.0 mg/kg<br>N=53 | 1.0 mg/kg<br>N=56 | 0.5 mg/kg<br>N=52 | Total Auxora<br>N=161 |
|---|-----------------|-------------------|-------------------|-------------------|-----------------------|
| Number of TESAEs                                | 20              | 14                | 21                | 23                | 58                    |
| Patients discontinuing study drug due to TESAEs | 3               | 2                 | 2                 | 2                 | 6                     |
| Patients with TEAEs leading to death            | 1               | 0                 | 1                 | 0                 | 1                     |

TESAE=treatment emergent serious adverse event

TEAE=treatment emergent adverse event

# Conclusions and Next Steps

- Auxora is ready for Phase 3 clinical development pending FDA discussion
- Primary objective met with a dose response for multiple endpoints
- Auxora well-tolerated
- Reduction in severe organ failure increases confidence in KOURAGE AKI trial
- Next steps: further analysis of additional data and End-of-Phase 2 meeting with FDA