

Memorandum

To: Members of the ICOC
From: Rosa Canet-Avilés, Chief Science Officer
Re: Revisions to CLIN2 Presentation
Date: March 27, 2025

Please be advised of the following revisions to the CLIN2 Concept Presentation:

- Former slide 77, summarizing CLIN2 Concept design, has been removed for brevity.
- “*In vivo*” was italicized and “Breakthrough” was capitalized on slide 79.
- The definition of “Subsequent Trials” was added to slide 83 and footnote references were revised.
- The description of eligible candidates was revised on slide 84 to include all stem cell-based and genetic therapies.
- The co-funding requirements on slide 84 were revised to align with the Concept Plan and remove co-funding requirements for non-profit applicants at Phase 2 or subsequent trial phases.

CLIN2 Funding Opportunity: Concept Overview

March 27, 2025



CLIN2 I Outline

1. Background
2. Objective
3. Scope
4. Structure
5. Timeline
6. Request for Motion

Goal 4 | Recommendations (CLIN2)

Goal 4 - Propel 15-20 therapies targeting diseases affecting Californians to late-stage trials

Update CLIN2

- Allow for support of emerging **novel clinical trial designs** in CLIN2 program
- Incentivize stage-appropriate **market access strategy** development and **pre-commercialization** activities in CLIN2 program
- Incorporate **prioritization of innovative therapies for diseases that affect Californians**



Discovery



Preclinical



Clinical

* "late-stage trials" are Ph2 or beyond

CIRM Clinical Programs: Challenges and Opportunities

CIRM clinical trial award challenges

- Delays
- Lack of advancement to next phase
- Lack of partnerships
- Lack of emphasis on commercialization planning

Landscape analysis conclusions

- ~50% of marketed CGTs originating in academia or emerging biopharma are launched by a larger company*
- CIRM's programs must depend on partnering for BLA/commercialization

Opportunity: Enhance success of CLIN2 programs with earlier development of clinical and manufacturing strategies, a market access strategy, & stage-appropriate pre-commercialization activities

* Emerging biopharma is defined as <\$200M in R&D spend and <\$500M in annual sales

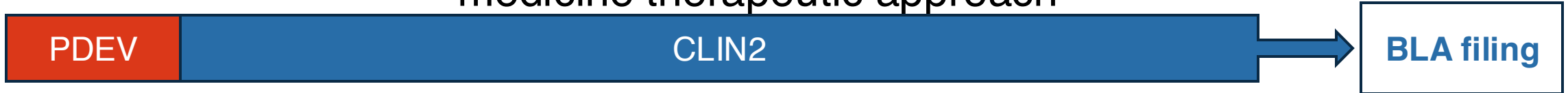
Source: IQVIA Institute for Human Data Science. Strengthening Pathways for Cell and Gene Therapies: Current State and Future Scenarios. March 2024

CLIN2 | Objective

Accelerate clinical development of **stem cell-based and genetic therapies** to late-stage trials by encouraging innovative clinical trial designs and incentivizing stage-appropriate market access strategies and pre-commercialization activities

CLIN2 | Scope

Phase 1, 2, or 3 clinical trials, including registrational trials, using a regenerative medicine therapeutic approach



Required activities

- Clinical trial completion including those with accelerating trial designs
- Establishment and regular convening of a Strategic Planning Committee (SPC)
- Data sharing
- Outreach and inclusion activities
- Stage-appropriate commercialization and access and affordability activities

Allowable activities

1. Natural history studies (FDA-approved) needed for baseline or control data
2. Manufacturing for next phase trial:
Activity gated based on:
 - a) Evaluation of current trial data, and
 - b) Ability of awardee or partner to provide 50% co-funding

Recall I SAF Recommendations (CLIN2)

Goal 4 - Propel 15-20 therapies targeting diseases affecting Californians to late-stage trials

Update CLIN2

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CLIN2 | Prioritizing to achieve SAF Goal

SAF Goal: Propel 15-20 therapies targeting diseases affecting Californians to late-stage trials

To achieve the SAF goal, the CLIN2 Program will incorporate program preferences

Guiding Principles:

- Fund therapies that
 - Offer potential for transformative clinical impact
 - Address bottlenecks to access and affordability
 - Are not adequately supported by federal funding or private investment

Implementation Plan:

- Build a diverse portfolio of therapeutic approaches
- Priorities informed by internal portfolio and external landscape analyses
- Approved on a fiscal year basis by the ICOC

CLIN2 | Preferences for FY25/26

Preferences will be factored in during Qualification and ARS review

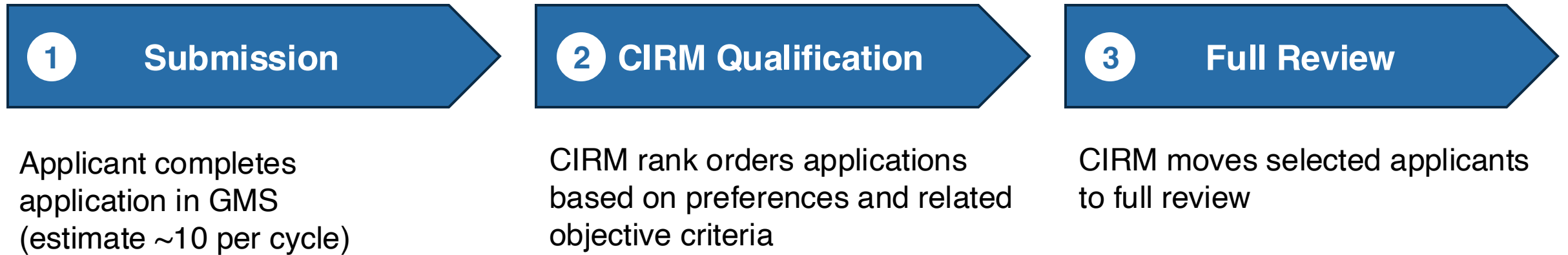
Concept Preferences	Rationale
Pluripotent stem cell-derived therapies	<ul style="list-style-type: none">• Propositions 71 and 14• Potential to address patient access & affordability barriers
<i>In vivo</i> genetic therapies	<ul style="list-style-type: none">• Potential to address patient access & affordability barriers
Non-viral nucleic acid delivery	<ul style="list-style-type: none">• Potential to address patient access & affordability barriers
Diseases of the brain and CNS (Prop 14)	<ul style="list-style-type: none">• Proposition 14 priority
CA organizations	<ul style="list-style-type: none">• CA taxpayer-funded initiative
Progressions from IND-enabling or pipeline trial awards	<ul style="list-style-type: none">• Advance CIRM-funded therapies
Fast Track, RMAT, or Breakthrough designations	<ul style="list-style-type: none">• Leverage greater FDA access
Pivotal trials	<ul style="list-style-type: none">• Fastest route to BLA

CLIN2 I Application & Review

CLIN2 will incorporate a pre-review process to:

- Exclude ineligible applications
- Assess application completeness (verifying patient access and commercialization requirements are addressed)
- Prioritize applications using objective program preferences
- Manage high application volumes

CLIN2 I Qualification Process Workflow



CLIN2 | Qualification Rubric

Criteria		Key Considerations
1	Prop 14 Preferences	<ul style="list-style-type: none"> • PSC-derived therapies, in vivo gene therapies, diseases of the brain and CNS
2	Other Preferences	<ul style="list-style-type: none"> • Non-Viral Nucleic Acid Delivery • Progression from Pipeline Program • CA organization • Fast Track, RMAT, or Breakthrough Designation • Pivotal Trial
3	Novelty of therapeutic approach	<ul style="list-style-type: none"> • Differentiation compared to CIRM active awards portfolio
4	Under-represented therapeutic/disease area	<ul style="list-style-type: none"> • Targeting a therapeutic/disease area under-represented in CIRM active awards portfolio

CLIN2 | Structure

	CLIN2		
	First-in-Human	Phase 2 or subsequent*	Phase 3 or pivotal
Recurrence	4x per year		
Max Duration	4 years		
Applicant	California or non-California organizations		
Co-funding**	30% (for-profit) None (non-profit)	50% (for-profit) None (non-profit)	50%
Max Award (Total Cost)	\$8M (for-profit) \$12M (non-profit)	\$15M	\$15M
Awards/Year	9-16***		
Projection	9 x \$15M = \$135M		
Total Funds/Year	\$135M		

* Subsequent trials are Ph1 trials following a First-in-Human trial with the same candidate, disease indication and route of administration

** Co-funding is a percentage of total Allowable Project Costs

*** Number of awards is dependent on how many at each stage and organization status. Avg. CLIN2/year 2022-2024 = 13

CLIN2 | Eligibility

	Eligibility Requirements
Applicant	<ul style="list-style-type: none"> California and non-California organizations
Eligible Candidates	<ul style="list-style-type: none"> Stem cell-based therapies and genetic therapies
Candidate Readiness	<ul style="list-style-type: none"> New program to CIRM: IND cleared by FDA before CLIN2 application CIRM pipeline program*: IND filed before CLIN2 application and cleared by FDA before moving to GWG review
Expected Outcome	<ul style="list-style-type: none"> Completion of a clinical trial and program prepared to advance to next stage
Award Start	<ul style="list-style-type: none"> Must be ready to start within 60 days of award approval
PI/PM Effort	<ul style="list-style-type: none"> PI – 15% average maintained through duration of award PM – 50% average maintained through duration of award
Co-Funding**	<ul style="list-style-type: none"> FIH: 30% (For-profit only) Ph2 or Ph1 subsequent to FIH: 50% (For-profit only) Ph3: 50% For-profit or Non-profit

* Pipeline program: progressing from an IND-enabling stage or earlier phase clinical trial CIRM award

** Co-funding is a percentage of total allowable project costs

CLIN2 | Access & Data Sharing Requirements

Access and Affordability

- Require patient access and affordability planning

Clinical Data Sharing

- Require a Data Sharing and Management Plan and coordination with CIRM's data sharing initiatives

CLIN2 I Proactive Award Management

Proactive Award Management

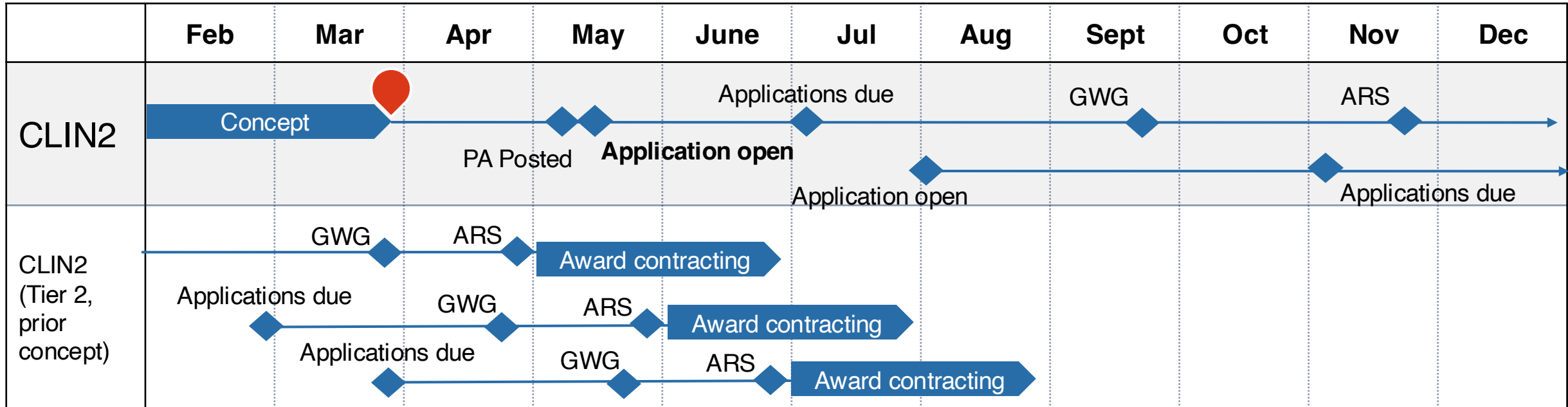
- Quarterly scientific progress reports and follow-up calls with CIRM
- Inclusion of CIRM in FDA meetings
- Inclusion of CIRM in Strategic Planning Committee meetings

Performance Driven Milestone Structure

- Operational milestone (OM)-driven awards
- Contingency funding required if CIRM funding tranche is exhausted
- OM delay of more than 4 months triggers evaluation, with right to terminate award

CLIN2 | Timeline

Application to award start ~ 8 months
First cycle awards start in February 2026



Request for Motion

CIRM requests that the ICOC approve the proposed CLIN2 Concept Plan