

February 6, 2024

A. Rachel Leheny, Ph.D.
Chief Executive Officer
CalciMedica, Inc.
505 Coast Boulevard South, Suite 307
La Jolla, CA 92037

Re: CalciMedica, Inc.
Registration

Statement on Form S-3
2024

Filed January 31,
File No. 333-276793

Dear A. Rachel Leheny:

This is to advise you that we have not reviewed and will not review your registration statement.

Please refer to Rules 460 and 461 regarding requests for acceleration. We remind you that the company and its management are responsible for the accuracy and adequacy of their disclosures, notwithstanding any review, comments, action or absence of action by the staff.

Please contact Tyler

Howes at 202-551-3370 with any questions.

Sincerely,

Division of Corporation Finance

Office of Life Sciences

cc:

Carlos Ramirez, Esq.