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April 16, 2019

**VIA EDGAR AND HAND DELIVERY**

Securities and Exchange Commission  
Division of Corporation Finance  
100 F Street, N.E.  
Washington, D.C. 20549-4720  
Attention: Thomas Jones  
Heather Percival

Re: *TransMedics Group, Inc. – Registration Statement on Form S-1 (File No. 333-230736)*

Dear Mr. Jones and Ms. Percival,

This letter is being furnished on behalf of TransMedics Group, Inc. (the “**Company**”), with respect to the Company’s Registration Statement on Form S-1 (File No. 333-230736) that was filed with the Securities and Exchange Commission (the “**Commission**”), on April 5, 2019 (as may be further amended from time to time, the “**Registration Statement**”).

Attached hereto as Annex A is updated disclosure to the Registration Statement that the Company is supplementally providing to the staff (the “**Staff**”) of the Commission.

\* \* \* \* \*

Thank you for your cooperation and attention to this matter. If you have any questions or comments regarding the foregoing, or if there is any additional information that we might provide to assist the Staff's review, please contact the undersigned at (617) 235-4824.

Sincerely,

/s/ Tara Fisher

Tara Fisher

cc: Waleed H. Hassanein, M.D. (TransMedics Group, Inc.)

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**Annex A**