Title: Heterogeneity in regional notification patterns and its impact on aggregate national case notification data: the example of measles in Italy

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PDF covering letter
Here is the revised version of our manuscript with a description below of the changes made in response to the referees’ comments. We hope that, following these revisions, you will consider that the revised version is suitable for publication in the journal and look forward to hearing your decision.

**CHANGES MADE TO MANUSCRIPT**

**Changes made in response to the comments of Referee 1:**
*Page 8, new line 9:* reference included to Table 1
*Figure 2:* several patterns observable in the data are mentioned to highlight and clarify a selection of patterns observable in the figure.
*Figure 6b:* The legend has been amended to indicate how the scaling was done.

**Changes made in response to the comments of Referee 2:**
*Pages 12-13:* The penultimate and final paragraphs of the Discussion have been amended to provide further consideration of factors influencing levels of reporting.

**Other changes:**
*Page 8, new line 8:* minor amendment: ‘the majority of’ replaced by ‘half of’
*Methods: Using births as estimators:* minor typographical corrections have been made
*Methods: The effects of migration:* a short clarification has been added addressing the level of international migration