

Detecting Term Pregnancies and Normal Birth Weight on Twitter: Annotation Guidelines

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Last updated: November 26, 2019

The following guidelines will help annotators identify tweets indicating that the Twitter user has had a term pregnancy and a baby with a normal birth weight. The following definitions will help annotators distinguish between “positive” and “negative” tweets:

- *term pregnancy*: the pregnancy lasted at least 37 weeks of gestation
- *normal birth weight*: the baby was born weighing at least 5 pounds, 8 ounces (2,500 grams)

For this annotation task, annotators should label tweets as “positive” or “negative” based only on the information provided directly in the tweet. For example, they should not consider external information provided by clicking on URLs within the tweet.

Annotators should label tweets such as the following as “positive” because they indicate that the user’s pregnancy has reached term:

- (1) I'm 39 weeks pregnant and I'm still doing twists.
- (2) 15 days til my due date 😊😬😬😬
- (3) My due date was yesterday, but this little one is ok hanging out a bit longer.

Tweet (1) explicitly states that the user is at least 37 weeks pregnant, while (2) and (3) provide evidence that the user’s pregnancy has reached term by indicating that the user is less than three weeks away from her due date in (2), and beyond 40 weeks of gestation in (3).

In contrast, annotators should label tweets as “negative” if they do not indicate that the user’s pregnancy has reached term, as in:

- (4) my due date was yesterday but [name] is already one month old today.. ❤️
- (5) Today's my due date. Thank god it's over and I'm already on the road to recovery

By providing information about the due date and how old the baby is, (4) indicates that the baby was born preterm. Because (5) does not indicate when the baby was born, it does not provide evidence that the user's pregnancy had reached term.

Annotators should label tweets such as the following as "positive" because they indicate that the baby was born with a normal birth weight:

- (6) Meet our handsome baby boy, [name] 🐣👶🌍😊 Born @ 4:42 p.m, 8lbs 1oz 19" long.
- (7) My Baby Boy [name] 😊😊 Born May 15.2014 at 3:05am , weighing 3.5kg and 57cm long!! BLESSED!!
- (8) At nearly 3 weeks old she finally is back to her birth weight and is 7lbs 11oz.
- (9) [name] born November 16, 2015 at 5:20pm. 6lbs 11ozs and 20 inches long.

Annotators should still label (8) and (9) as "positive" even though *she* in (8) and the name in (9) could plausibly be referring to someone else's baby.

In contrast, annotators should label tweets such as the following as "negative":

- (10) [name] isn't even 2 months old yet and he is already double his birth weight 😞👶 10 pounds 14 oz and 21 inches
- (11) So baby decided she's ready for this world. Baby [name] was born at 35 weeks. 2.8kg. 48cm. She's in NICU.

Although (10) states that the baby is *10 pounds 14 oz*, the tweet indicates that the baby was half that weight at birth—that is, 5 pounds and 7 ounces, which is below normal birth weight. Although (11) states that the baby was born with a normal birthweight, it also indicates that the baby was born preterm.