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Title: Rotavirus vaccination takes seasonal signature of childhood diarrhea back to pre-sanitation era in brazil

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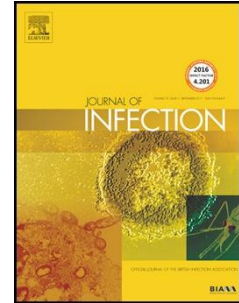
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1 **TITLE PAGE**

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3 Original article

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5 **Rotavirus vaccination takes seasonal signature of childhood diarrhea back to pre-**
6 **sanitation era in Brazil**

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28 *Suggested running title:* Vaccination changes seasonal signature of diarrhea

29

30 *Keywords:* diarrhea; interrupted time-series analysis; Brazil; spatio-temporal analysis; seasonal
31 variation; hospitalization; mortality

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33 *Word count abstract:* 199

34

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36

37 *Conflicts of interest:* None

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39 **HIGHLIGHTS**

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- Diarrheal pathogens have distinct regional seasonal signatures in Brazil.

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- Infant seasonal diarrheal disease signature shows rotavirus vaccination success.

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- Diarrheal disease burden in Brazil shifted by age group and geography.

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