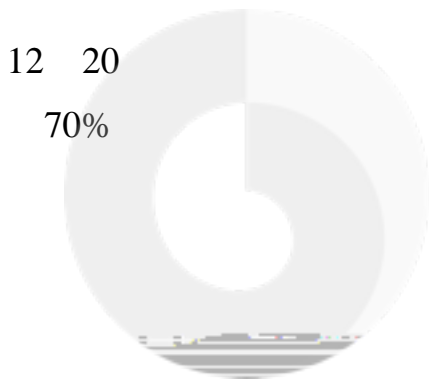


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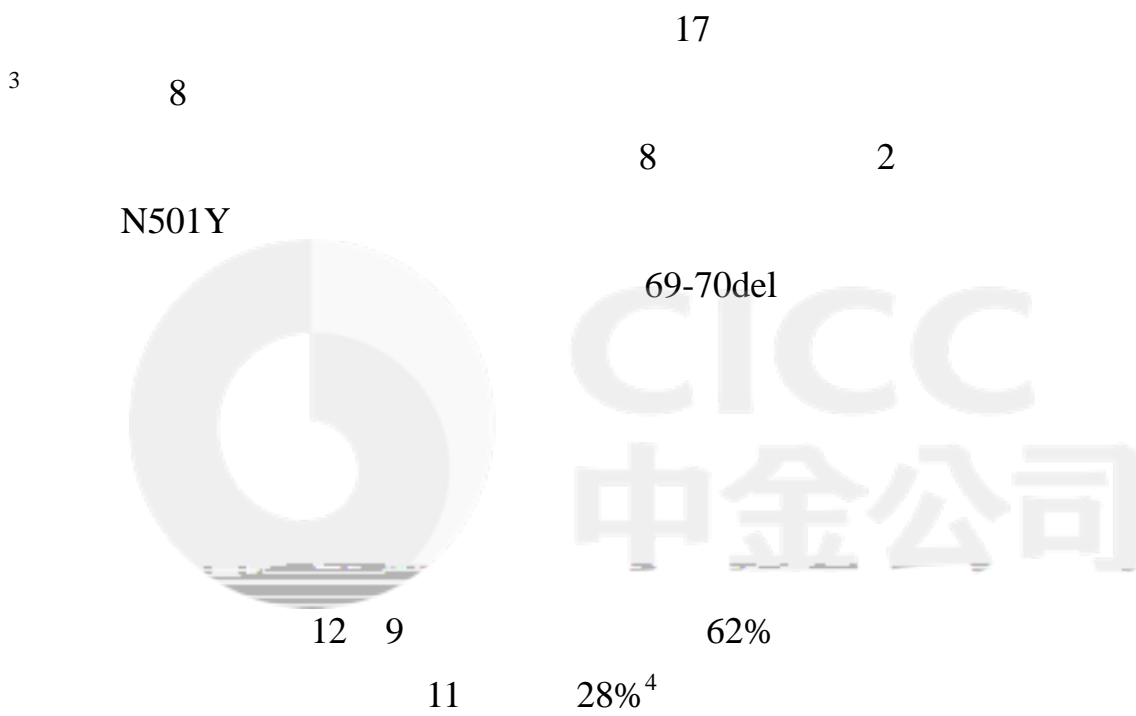
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Emma Hodcroft

¹ Callaway, Ewen. (2020). The coronavirus is mutating — does it matter?. Nature. 585. 174-177. 10.1038/d41586-020-02544-6.

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B.1.1.7



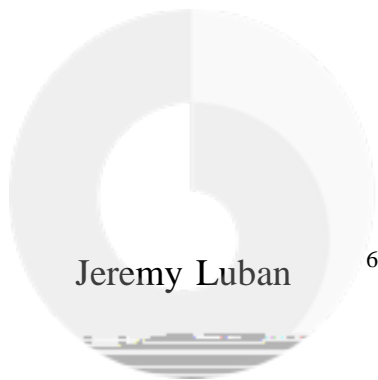
³<https://www.bloomberg.com/news/articles/2020-12-21/why-the-u-k-s-mutated-coronavirus-is-fanning-worries-quicktake>

⁴ <https://www.businessinsider.com/uk-new-coronavirus-strain-what-we-know-2020-12>

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Genetic Tracking

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⁶ What We Know About The New U.K. Variant Of Coronavirus And What We Need To Find Out. NPR. Dec 22,2020.

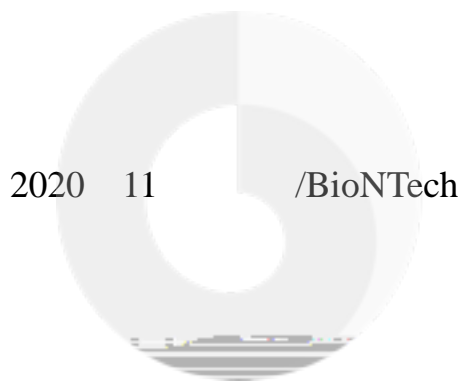
<https://www.npr.org/sections/goatsandsoda/2020/12/22/948961575/what-we-know-about-the-new-u-k-variant-of-coronavirus-and-what-we-need-to-find-out>

⁷ <https://twitter.com/TheMenacheryLab/status/1341460341293723650>

Jesse

Bloom ⁸

/BioNTech Moderna mRNA
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 RNA BioNTech CEO Ugur Sahin ⁹



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2020-12-14		/BioNTech
2020-12-19		/BioNTech
2020-12-27		/BioNTech

: HHS, BBC,CNBC

⁸ Eguia, R., Bloom, J., et al. A human coronavirus evolves antigenically to escape antibody immunity. Dec 18, 2020. bioRxiv 2020.12.17.423313; doi: <https://doi.org/10.1101/2020.12.17.423313>

⁹ Loh, T. Vaccine Makers Preparing for Mutant Coronavirus Strains. Bloomberg. Dec 23, 2020. <https://www.bloomberg.com/news/articles/2020-12-22/vaccine-makers-say-they-re-ready-for-mutant-coronavir-us-strains>

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12 8 /BioNTech
12 21 50 10
12 11 12 18 /BioNTech Moderna
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¹⁵ <https://www.cnbc.com/2020/12/22/why-covid-vaccine-is-more-like-a-tetanus-shot>

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