



## Influenza in Greenland 1914 - 1921

Untold Stories and Diverging Patterns

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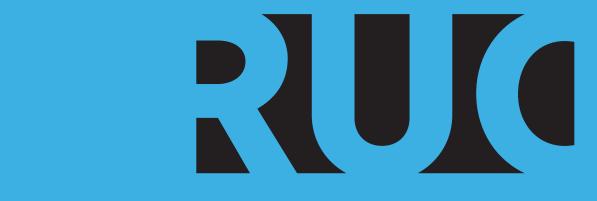
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Greenland for 1914-1921.

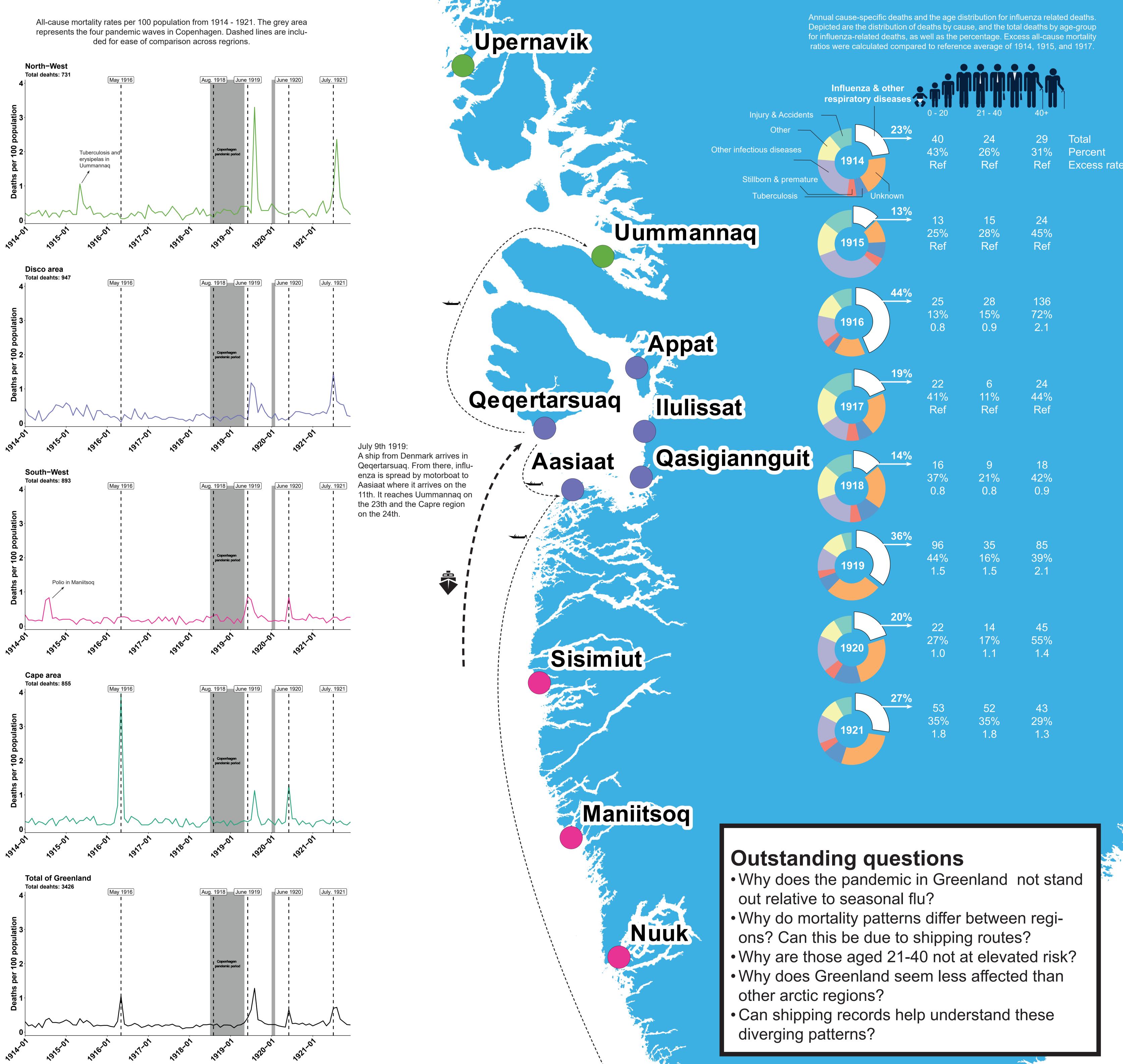


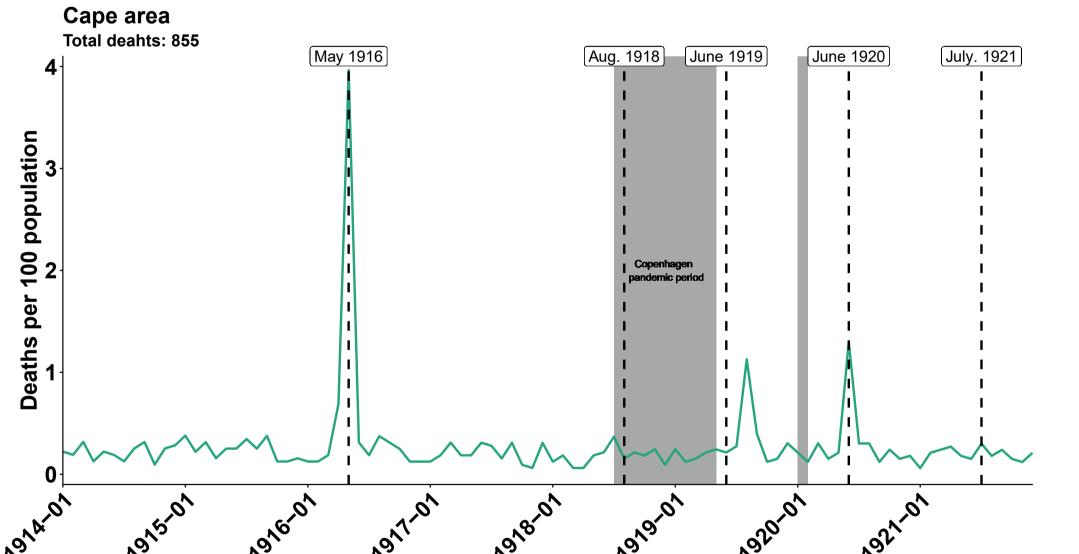
# Influenza in Greenland 1914 - 1921 **Untold Stories and Diverging Patterns**

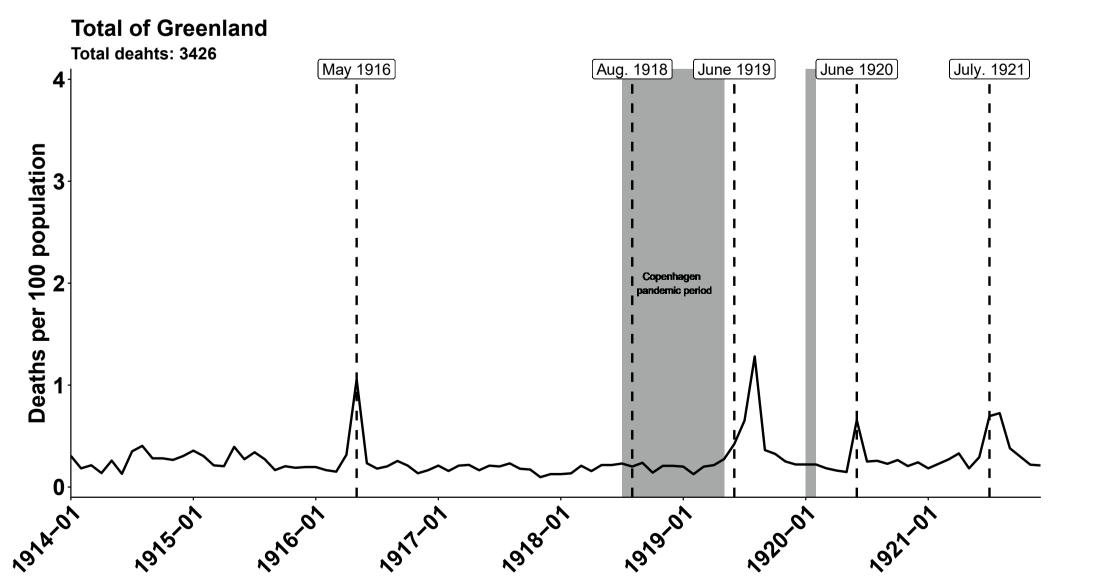
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The 1918 - 1921 influenza pandemic was particularly devastating in Arctic and other remote populations. In most other places in the world the pandemic came in 2-4 waves during 1918 to 1921. We studied spatial and temporal patterns of influenza-related deaths in

We obtained and digitalized 3426 deaths from 14 parish registers representing 4 geographical regions. We retained date and cause of death, age, gender, and settlement. We defined influenza related deaths as: influenza, cold, cold-fever, pneumonia, bronchitis, and "sting". Population sizes were interpolated from censuses in 1911 and 1921.







Narsaq

Alluitsoq

Nanortalik

## Key messages

- Outbreaks of influenza-like illness occured in 1916, 1919, 1920 and 1921.
- All outbreaks occured in May-August, when the ports were free of ice and shipping was at its peak.
- Mortality patterns differed dramatically from parish to parish.
- The outbreak in 1916 was local to the Cape region and overall deadlier than the 1919 pandemic.
- Pandemic influenza was delayed by ~one year and started in June 1919, when the ice cracked and ships arrived in Greenland again. • In total 1.6% of the population died of influenza related deaths in
- 1919, similar to 1916 (1.4%).
- Documented arrival of influenza by ship confirms that it was influenza. • Contrary to well-known pandemic signature patterns, all age-groups were equally affected.

April 1916: A ship from Denmark arrives in lvigtut. Among the passengers are miners for the local cryolite mines, some of whom are infected with influenza. The virus is transported by post sled to Qaqotoq. On April 16th a postmen is admitted to Julianehåb hospital. From there influenza spread to the rest of the area.

Paamiut

lvigtut

 $\bowtie$ 

Qagotog