



Llywodraeth Cymru
Welsh Government

A pandemic problem the size of Wales

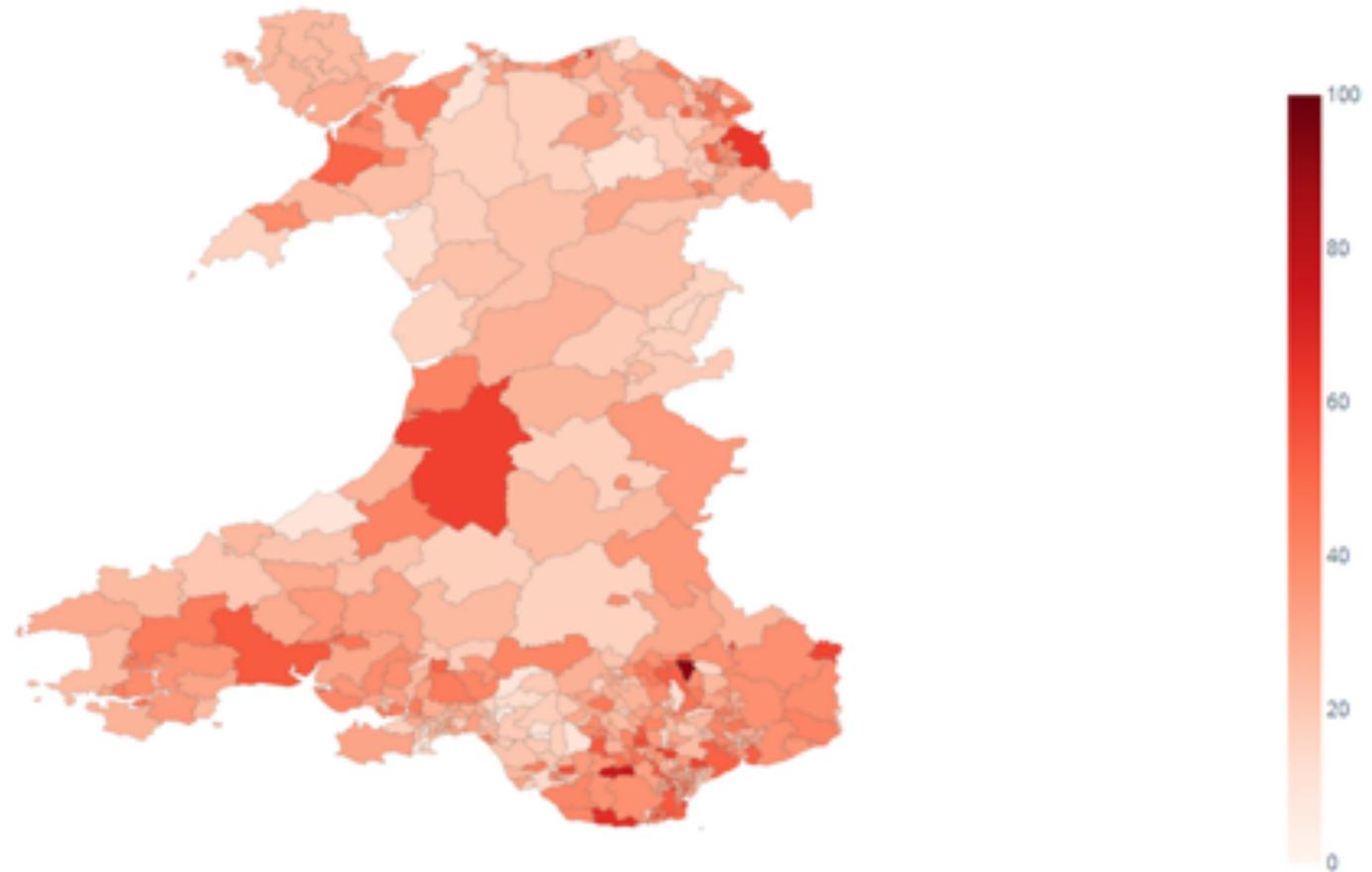
Fliss Bennée & Benedict Dodd







Number of confirmed COVID episodes per MSOA of residence for previous 7 days







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» [Coronavirus \(COVID-19\) guidance](#)[Read the current guidance](#)[Home](#) > [All organisations](#) > Technical Advisory Cell

Technical Advisory Cell

What we do

The Technical Advisory Cell provides coordination of scientific and technical advice to support Welsh Government decision makers during emergencies.

[Read more](#)

CORPORATE INFORMATION[Membership](#)[Pre-election period](#)[Terms of reference](#)

CATEGORY**LATEST**[Publications](#)[Technical Advisory Group: Living safely with COVID-19 in Wales: risk communication and behavioural science perspectives](#)

25 March 2022 Report





Photo by [Jesse Bowser](#) on [Unsplash](#)





Photo by [Vlad Hilitanu](#) on [Unsplash](#)





Executive Summary

1 136 confirmed COVID cases in ICU across all of Wales (+1 from yesterday).
 2 19 other suspected cases yet to be confirmed (+1 from yesterday).
 3 GAVHIB have 34 confirmed COVID patients in ICU (+3 from yesterday). Overall +1 ICU patients from yesterday.
 4 ABUHB have 23 confirmed COVID patients in ICU (-3 from yesterday). Overall -3 ICU patients from yesterday.
 5 L3 ICU patient numbers continue to indicate a reduced growth rate.
 6 Prior-reported case numbers in Wales appear to show a continued increase.
 7 GAVHIB have exceeded 87% of mortality capacity and ABUHB have exceeded 84% of their mortality capacity.
 8 Approx. 42% of all COVID/SUS cumulative hospital admissions have been discharged alive (1211 of 2891).
 9 Approx. 1.1% of all COVID/SUS cumulative hospital admissions have died (33 of 2891).
 10 Doubling time estimates of time to exceed (TTE) & predicted patient numbers will become less accurate nearing/beyond the inflection point.

ALL WALES HEADLINES			
Today's confirmed COVID-19 cases in patients deceased			
Total No. Daily COVID+ Cases (Wales)	313	Total No. Daily COVID+ Deaths (Wales)	18
Total No. Daily COVID+ Deaths (Wales)	18	Total No. All Patients in L3 ICU	214
Total No. of COVID/SUS in L3 ICU	136	Predicted No. of L3 Patients in 7 Days	452
Predicted No. of L3 Patients in 7 Days	452	Predicted No. of L3 Beds (inc. 24hr Surge)	467
Predicted No. of L3 Beds (inc. 24hr Surge)	467	Predicted Days to Exceed L3 (467 Surge)	6.9
Predicted Days to Exceed L3 (467 Surge)	6.9	Risk	Occupancy (%)
Risk	Occupancy (%)	Time to Exceed (TTE) (Days)	
Low	More than 75% Full	45	
Medium	50-75% Full	5-10	
High	25-50% Full	10-15	
Very High	Less than 25% Full	216	

L3 ICU Capacity & Occupancy

NHS Wales ICU Capacity v2.0 MA.xlsx

COVID-19 Summary Report
WG COVID-19 TAC
tac@nhs.wales

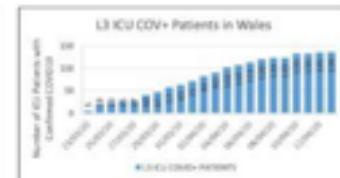
EXECUTIVE SUMMARY									
ALL WALES HEADLINES									
Daily P&W Data	Deaths	Cases	Compliance	L3 ICU Beds	Mortuary	7-Day Average (15/4-22/4 vs. 7/4-14/4)	PW Cases	Coronavirus Admissions	Coronavirus Deaths
Cases	Deaths	Cases	Deaths	L3 ICU Beds	Mortuary	PW Cases	Coronavirus Admissions	Coronavirus Deaths	Coronavirus Deaths
#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	15	-11	-11	-11
Hospital Data	Coronavirus Admissions	Coronavirus Deaths	Coronavirus Deaths	Coronavirus Admissions	Coronavirus Deaths	Coronavirus Deaths	Coronavirus Deaths	Coronavirus Deaths	Coronavirus Deaths
Coronavirus Admissions	Coronavirus Deaths	Coronavirus Deaths	Coronavirus Deaths	Coronavirus Admissions	Coronavirus Deaths	Coronavirus Deaths	Coronavirus Deaths	Coronavirus Deaths	Coronavirus Deaths
122	#N/A	#N/A	6	3910	1775	#N/A	#N/A	#N/A	#N/A
L3 ICU AND EQUIVALENT CAPACITY AND OCCUPANCY STATUS									
Region	Total L3 Beds	Total L3 Patients (Capacity)	Non-COVID Patients	Suspected COVID Patients	Confirmed COVID Patients	Time to Exceed L3 Capacity (Days)			Predicted No. of all Patients in ICU L3 (Worst Case)
Wales	391	214	N/A	19	136	Today Capacity Likely	Today Capacity Worst Case	Today Capacity Likely	7 Days
ABUHB	70	49	N/A	3	39	3.0	2.8	3.0	5.9
HOUHB	46	12	N/A	2	2	20.0	15.6	20.8	15
SBUHB	62	41	N/A	5	22	4.8	4.0	5.5	79
CTMULB	90	39	N/A	6	26	4.9	4.9	6.6	78
CVLHB	87	50	N/A	2	34	5.1	4.9	5.7	8.0
BCUHB	90	29	N/A	7	13	9.3	7.9	12.3	52
						Doubling Time (Days)	4.8	4.8	4.8
						Patient cohort in Estimated Time	Confirmed Only	Inc. Suspected	Confirmed Only
									Confirmed Only

Page 1 of 5



L3 ICU Planned Capacity Increase

Region	Total Number of L3 ICU Beds				Predicted No. Patients in 10 Days
	Current L3 ICU Capacity	Avgable within 24hrs	Avgable within 7 Days	Avgable within 10 Days	
WALESB	391	467	529	745	654
ABUHB	70	70	102	102	175
HOUHB	46	49	49	53	18
SBUHB	62	68	68	107	112
CTMULB	90	74	83	124	117
CVLHB	87	93	97	140	160
BCUHB	90	93	121	191	71



Admissions & Deaths

NB: This is old and partially obscured data

[Intelligence Report](#)
[Summary Report](#)
[Indicators](#)
[More](#)
[Download Report as PDF](#)

 PHW data updated at 1
 Hospital data updated at 1

COVID-19 Intelligence Cell Report

Headline Indicators

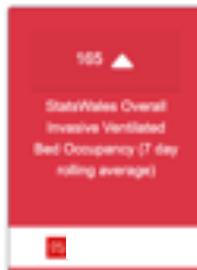
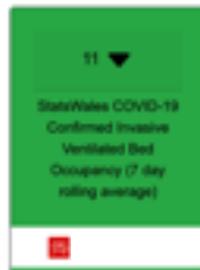
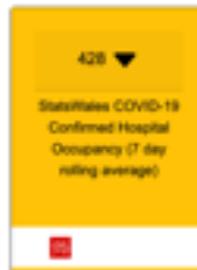


Figure 1

Figure 2

Figure 3

Figure 4

Figure 5

Figure 6

Cases per 100k (PHW Data) (7 day rolling sum)



NB: This is old and partially obscured data





Figure 55

Figure 56

Figure 57

Figure 58

Figure 59

Figure 60

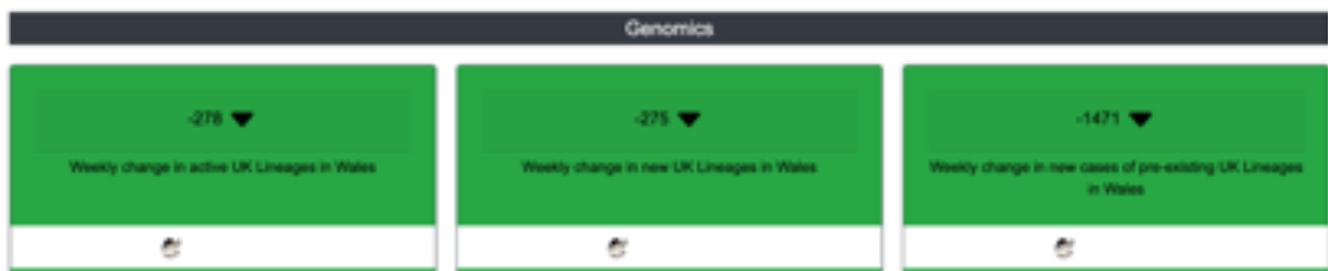
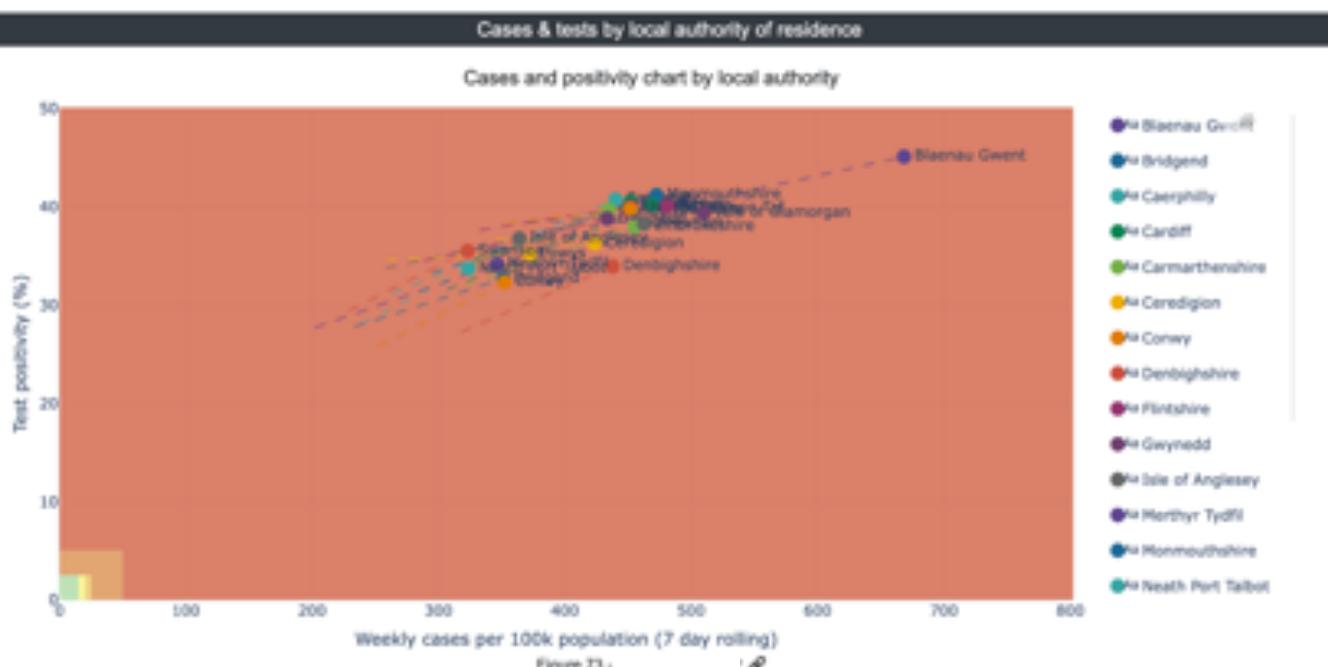


Figure 67

Figure 68

Figure 69

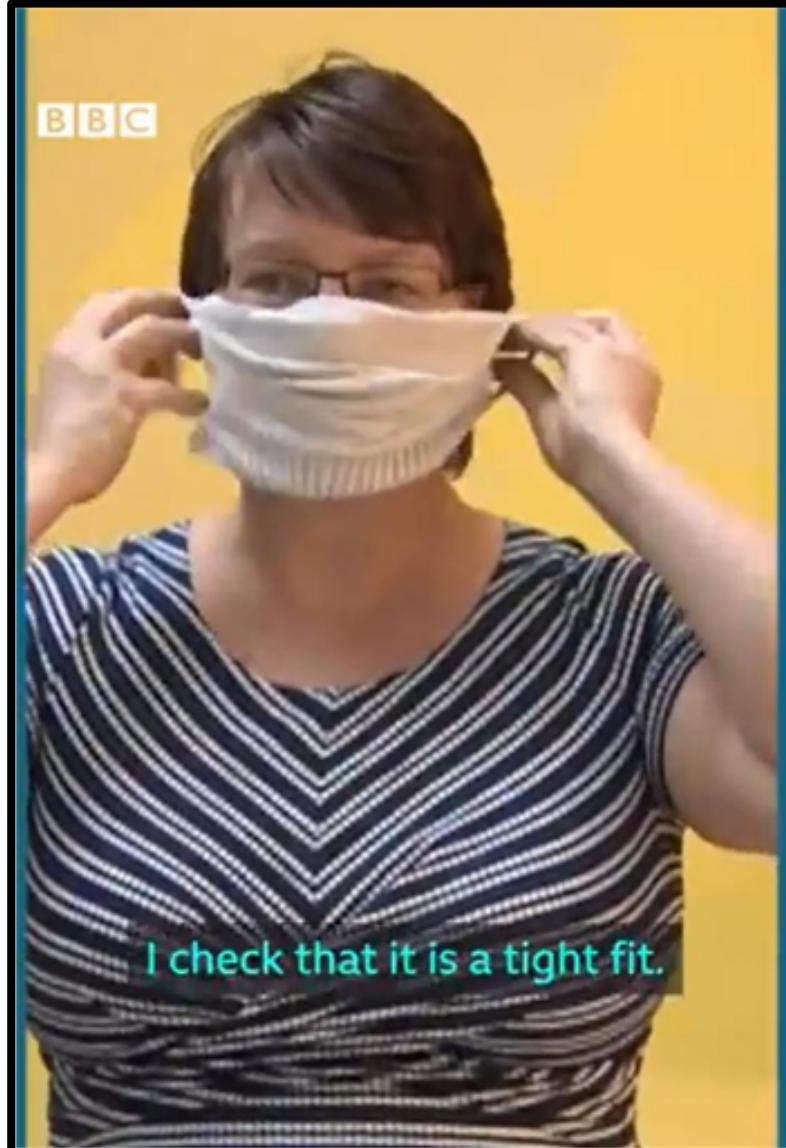


NB: This is old and partially obscured data



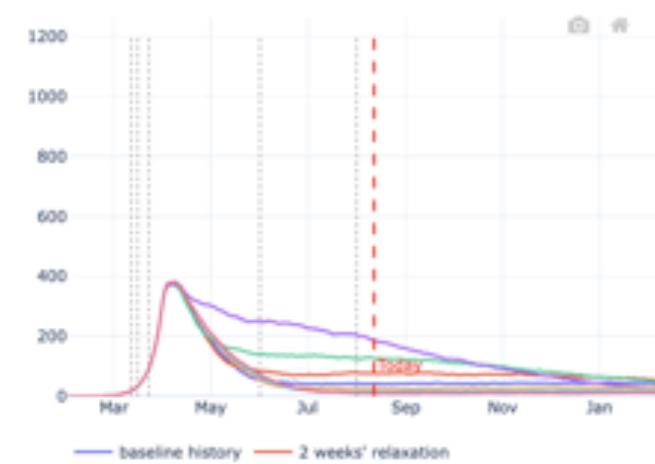
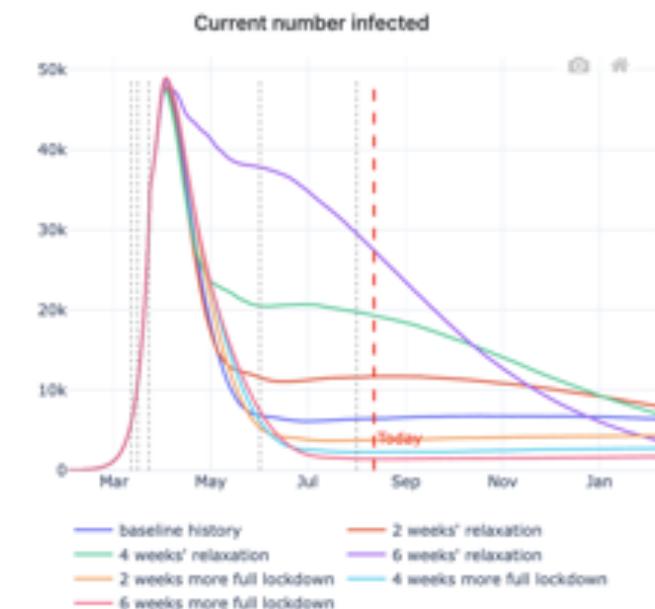
BBC

I cut off the toe.



BBC

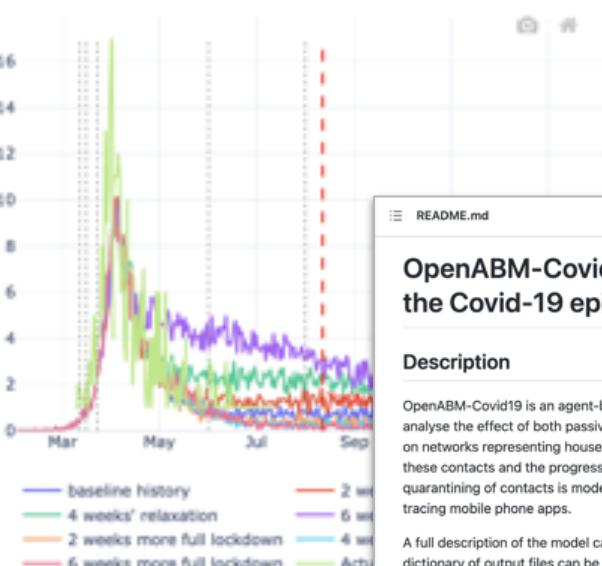
I check that it is a tight fit.



Current number Cov+ in ICU



Daily Cov+ transitions from hospital to ICU



Daily Cov+ deaths in hospital



README.md

OpenABM-Covid19: Agent-based model for modelling the Covid-19 epidemic

Description

OpenABM-Covid19 is an agent-based model (ABM) developed to simulate the spread of Covid-19 in a city and to analyse the effect of both passive and active intervention strategies. Interactions between individuals are modelled on networks representing households, work-places and random contacts. The infection is transmitted between these contacts and the progression of the disease in individuals is modelled. Instantaneous contract-tracing and quarantining of contacts is modelled allowing the evaluation of the design and configuration of digital contract-tracing mobile phone apps.

A full description of the model can be found [here](#), a dictionary of input parameters can be found [here](#) and a dictionary of output files can be found [here](#).

A report evaluating the efficacy of various configurations of digital contract-tracing mobile phone apps can be found [here](#) and the parameters used in the report are documented [here](#). The model was developed by the Pathogen Dynamics group, at the [Big Data Institute](#) at the University of Oxford, in conjunction with IBM UK and [Faculty](#). More details about our work can be found at www.coronavirus-fraser-group.org. We suggest running from the latest commit in the master branch or from the latest release tag, which are created at major change points.



faculty



GIG
CYMRU
NHS
WALES

Iechyd a Gofal
Digidol Cymru
Digital Health
and Care Wales

(and many more...)



Photo by [Etienne Girardet](#) on [Unsplash](#)



Photo by [Daniel Seßler](#) on [Unsplash](#)



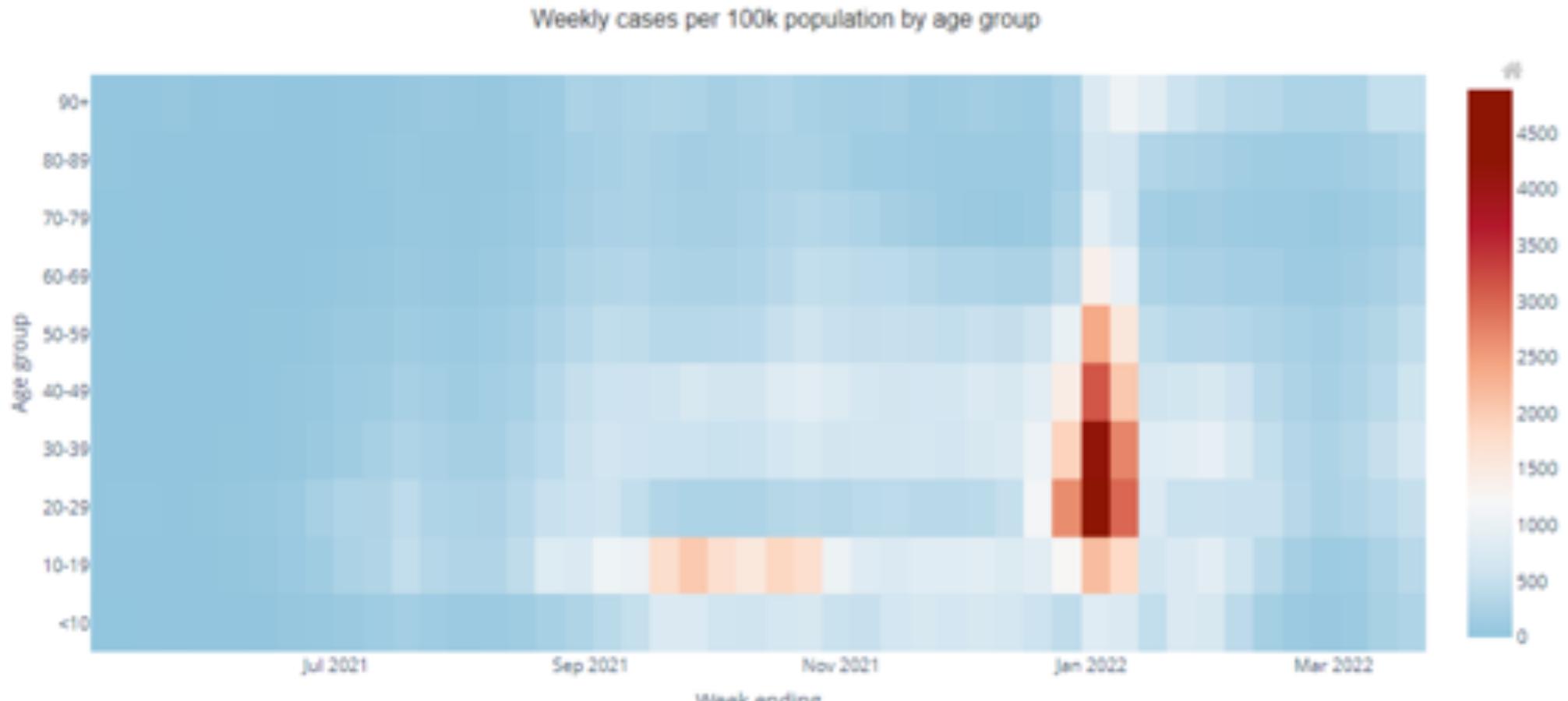


Figure 75 - Data correct as of 24th Mar 2022. Time period to 20th Mar 2022.

Photo by [Neil Mark Thomas](#) on [Unsplash](#)





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Armakuni

Thank You

Fliss Bennée & Benedict Dodd