



**South Tyneside and Sunderland**  
NHS Foundation Trust


# HWB scrutiny committee Sunderland C19 update

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The path to  
**excellence**

# Overview

- Methodology
  - Admission profile comparison
  - Source of admission
  - Demographic profile
  - Postcode Index of Multiple Deprivation (IMD) analysis
  - Co-morbidity
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# Methodology

- COVID 19 Wave 1-3 Analysis as at 16/8/21
- Wave 1 01/3/20-31/8/20
- Wave 2 1/9/20 -6/7/21
- Wave 3 7/7/21-16/8/21\*
- Using the COVID 19 Status Launchpad
- Data was processed to identify onset of infection
- IMD analysis using postcode of residence
- Co-morbidities identified from clinical coding

\*It is acknowledged the Wave 3 is still underway and the data used will form part of the picture rather than a complete one.



# Source of Admission

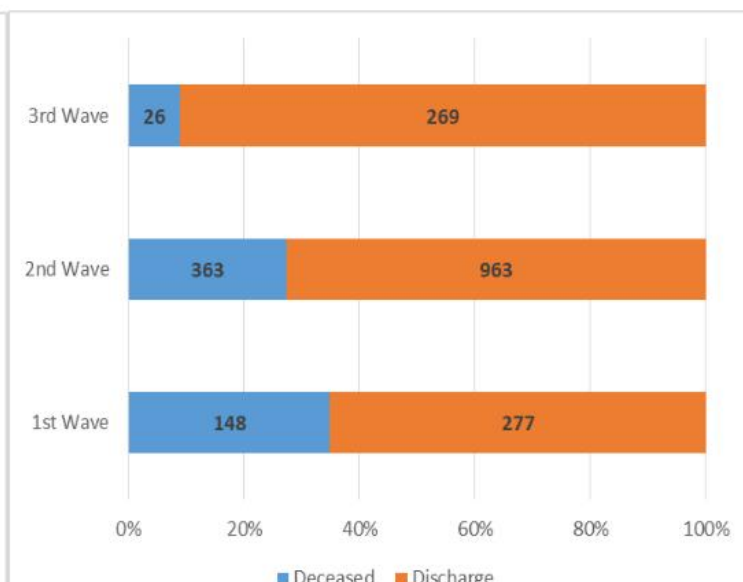
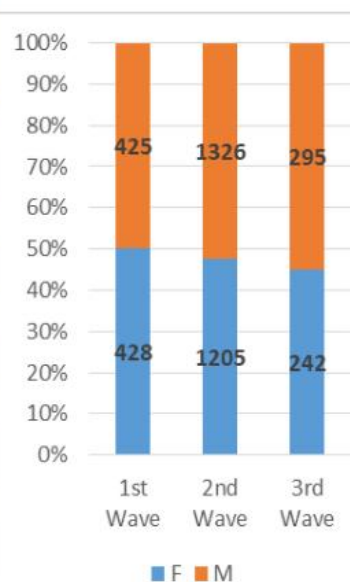
- The vast majority of admissions remain to be from usual place of residence.
- This increased from 76.44% to 97.39% in the 3rd Wave.
- Admissions from care homes have reduced from 22.16% to 1.12%.

	1st Wave	%	2nd Wave	%	3rd Wave	%
<b>Admission Source</b>						
Usual Place of Residence	652	76.44%	2,193	86.65%	523	97.39%
Care Home	189	22.16%	279	11.02%	6	1.12%
Other NHS Hospital Provider	10	1.17%	47	1.86%	3	0.56%
Admitted from Police/Prison		0.00%	5	0.20%	3	0.56%
Temporary Place of Residence		0.00%	3	0.12%	1	0.19%
No Fixed Abode	1	0.12%	2	0.08%	1	0.19%
Other Hospital - Maternity	1	0.12%	1	0.04%		0.00%
Other Hospital - MI/LD		0.00%	1	0.04%		0.00%
<b>Grand Total</b>	<b>853</b>	<b>100.00%</b>	<b>2,531</b>	<b>100.00%</b>	<b>537</b>	<b>100.00%</b>

# Demographics

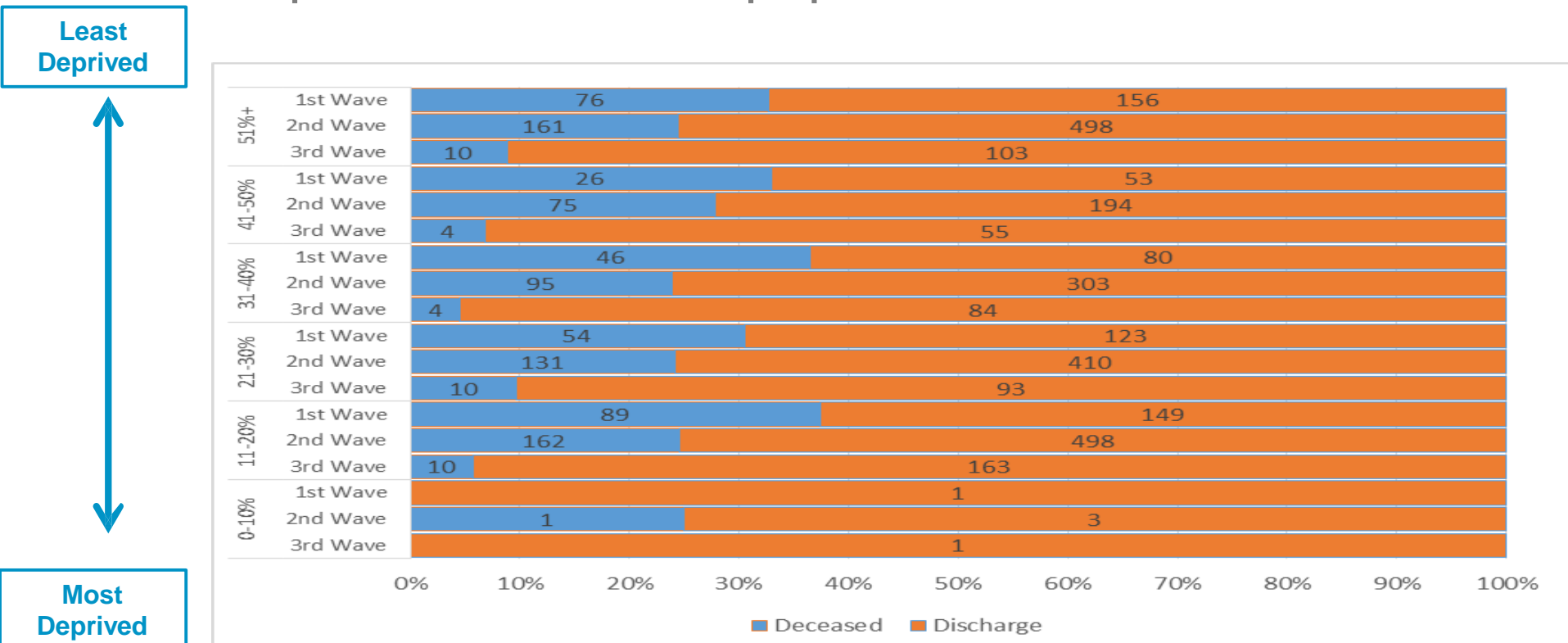
- The proportion of under 18's admitted has increased but their outcome remains consistent as discharged.
- Proportion of male admissions has increased from 50% to 55%.
- Male outcomes have improved from 65% to 91% discharged (in line with overall outcomes 66% to 93%).

Age	1st Wave	2nd Wave	3rd Wave	%	%	%
0-5	3	24	16	0.35%	0.95%	2.98%
Jun-17	1	25	10	0.12%	0.99%	1.86%
18-24	5	42	34	0.59%	1.66%	6.33%
25-34	21	95	67	2.46%	3.75%	12.48%
35-44	40	111	67	4.69%	4.39%	12.48%
45-54	54	207	62	6.33%	8.18%	11.55%
55-64	114	314	67	13.36%	12.41%	12.48%
65-74	164	482	95	19.23%	19.04%	17.69%
75-84	245	681	84	28.72%	26.91%	15.64%
85+	206	550	35	24.15%	21.73%	6.52%
Total	853	2,531	537	100.00%	100.00%	100.00%



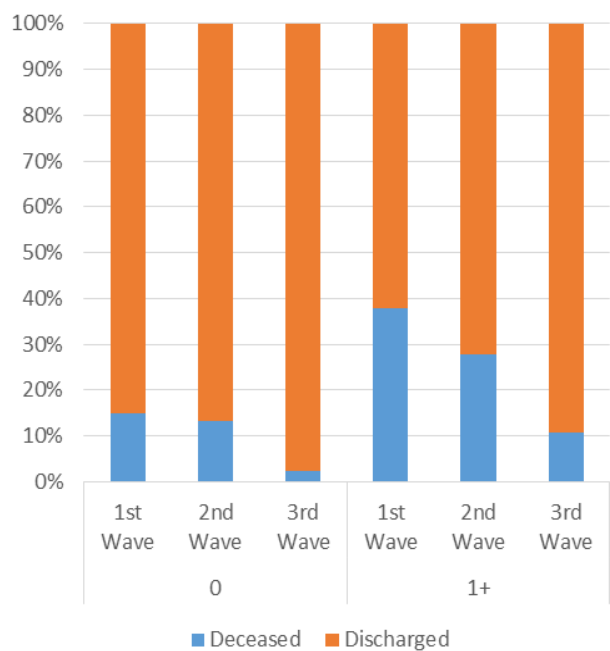
# Postcode Index of Multiple Deprivation (IMD) Analysis

- All IMD deciles have seen a reduction in the proportion of deaths.
- 74.93 % (2,917/3,921) patients are attributed to the most deprived 50 % of the population.



# Co-morbidity profile

- All defined co-morbidities saw a reduction % share of cohort; this may correlate with the change in age profile of patients being admitted.
- Outcomes for those with defined co-morbidities have improved, but not to the same extent as those without.
- Wave 3 – previous admission coding taken into account for those un-coded.



	1st Wave		2nd Wave		3rd Wave	
Defined Comorbidity	No. Patients	% share of cohort with comorbidities	No. Patients	% share of cohort with comorbidities	No. Patients	% share of cohort with comorbidities
Hypertension	352	41.27%	912	36.03%	132	24.58%
Diabetes	197	23.09%	531	20.98%	83	15.46%
CKD	191	22.39%	431	17.03%	48	8.94%
IHD	153	17.94%	371	14.66%	63	11.73%
COPD	171	20.05%	452	17.86%	53	9.87%
AF	169	19.81%	467	18.45%	50	9.31%
Dementia	136	15.94%	235	9.28%	10	1.86%
OA	118	13.83%	349	13.79%	65	12.10%
Cancer	74	8.68%	247	9.76%	26	4.84%
CVD	20	2.34%	1036	40.93%	8	1.49%
	853	100.00%	2531	100.00%	537	100.00%

# Conclusions

- Outcomes have been better in the 3rd wave.
  - Better understanding of COVID 19 and treatment.
  - Vaccination!
- Admissions from Care Homes have reduced from 22.16% to 1.12%.
  - Better IPC measures
- The most 0-50% deprived postcodes account for a large volume of admissions.
  - Not a surprise. This mirrors sepsis admissions pre-pandemic
- The % share of defined co-morbidities has reduced
  - This may correlate with the change in the age profile.
- Further analysis is on-going

