COVID-19
Ensuring accuracy of coded data

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HIPE

- HIPE based in the Healthcare Pricing Office (HPO), part of the Health Service Executive (HSE)

- The classification in use is the Australian ICD-10-AM/ACHI/ACS, 10th edition.

- HPO publish Irish coding standards and national guidance.

- HPO manages the data quality, classification support, coder training and IT systems for the data collection system.

- HPO receives HIPE data monthly from 56 public acute hospitals.

- Manage and develop data entry, data quality and reporting software for all hospitals.

56
Participating hospitals (39 ABF)

300
Clinical coders

1.7 million
Discharges

Total COVID-19 HIPE Discharges Ireland 2020 to July 2022

51,146	776,679	4,715	54,255	Male 50.2% Female 49.8%
Total number of COVID-19 discharges	Total number of beddays consumed	Total number of patients in ITU	Total number of ITU beddays consumed	Male/female

COVID-19 Discharges

COVID-19 Discharges 2020/2021

Bar chart values:
- Márta-20: 663
- Aib-20: 2366
- Beal-20: 1279
- Meith-20: 422
- Iúil-20: 160
- Lún-20: 128
- MFómh-20: 231
- DFómh-20: 823
- Samh-20: 948
- Noll-20: 967
- Ean-21: 4766
- Feabh-21: 3292
- Márta-21: 1664
- Aib-21: 986
- Beal-21: 570
- Meith-21: 364
- Iúil-21: 516
- Lún-21: 1192
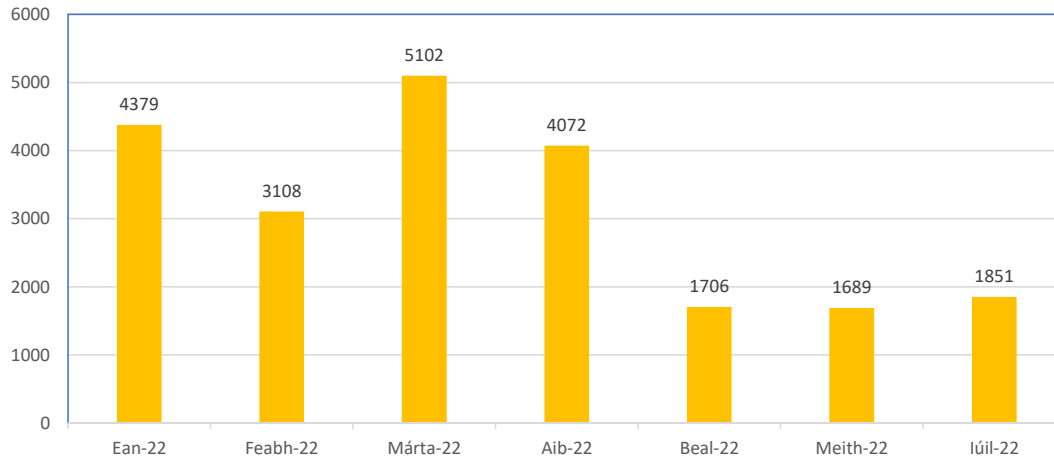- MFómh-21: 1365
- DFómh-21: 1551
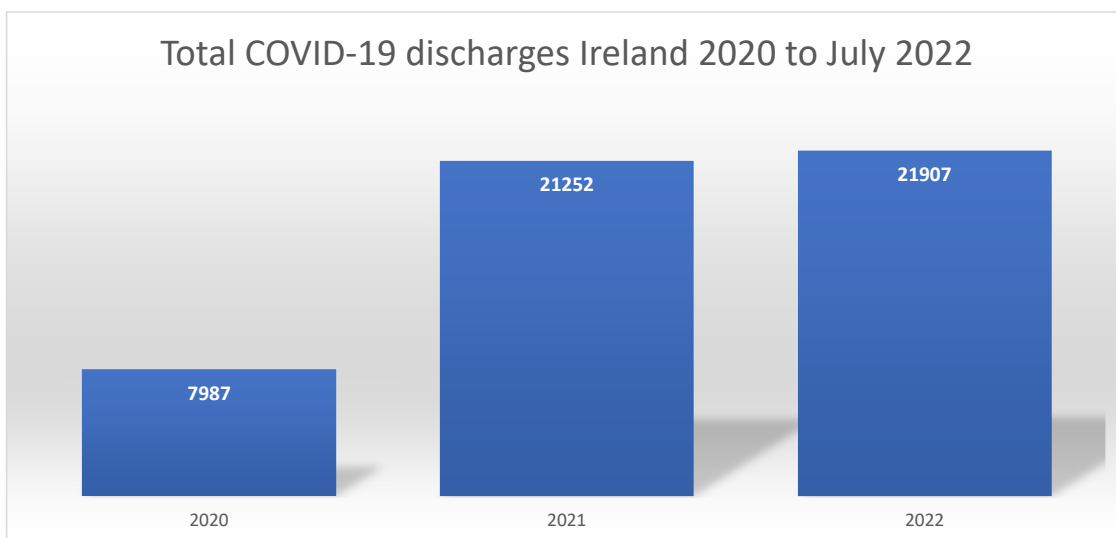- Samh-21: 2296
- Noll-21: 2690
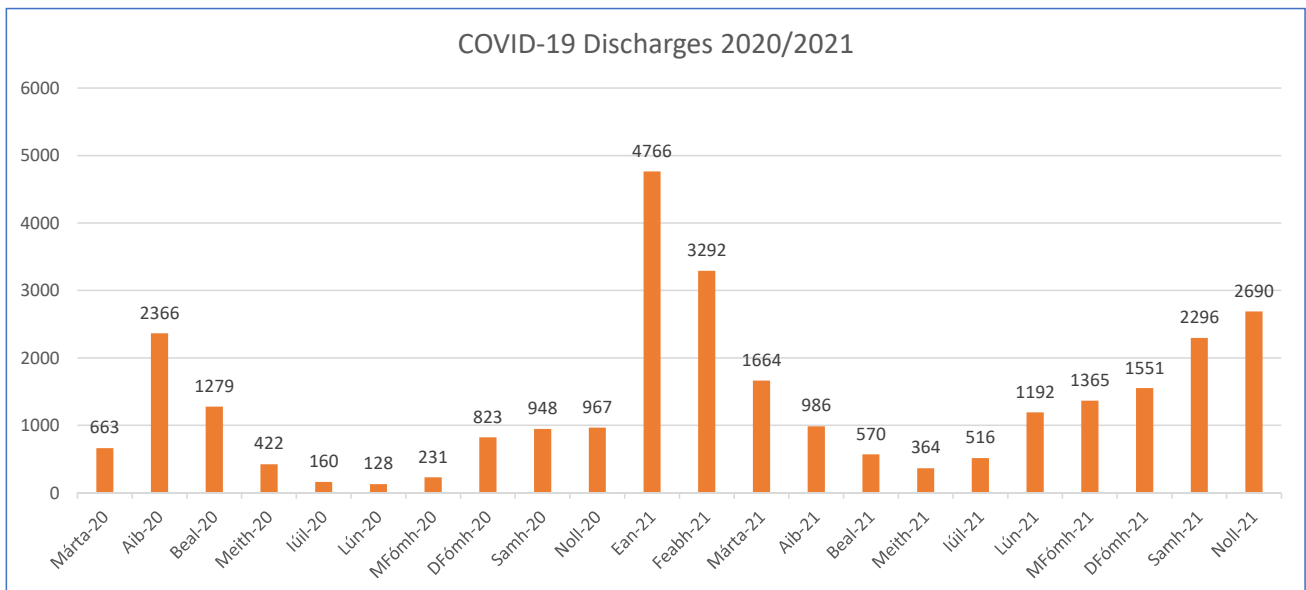
COVID-19 Discharges
January to July 2022

COVID-19 Discharges Ireland 2022

Total COVID-19 discharges

Total COVID-19 discharges Ireland 2020 to July 2022

Asymptomatic V Symptomatic COVID-19

Asymptomatic V Symptomatic COVID-19

Not always clear if hospital acquired or not

- B342 Coronavirus unspecified - asymptomatic
- B972 Coronavirus as cause of diseases .. Symptomatic

2020: 885 (11%), 7103
2021: 3400 (16%), 17852
2022: 7317 (33%), 14593
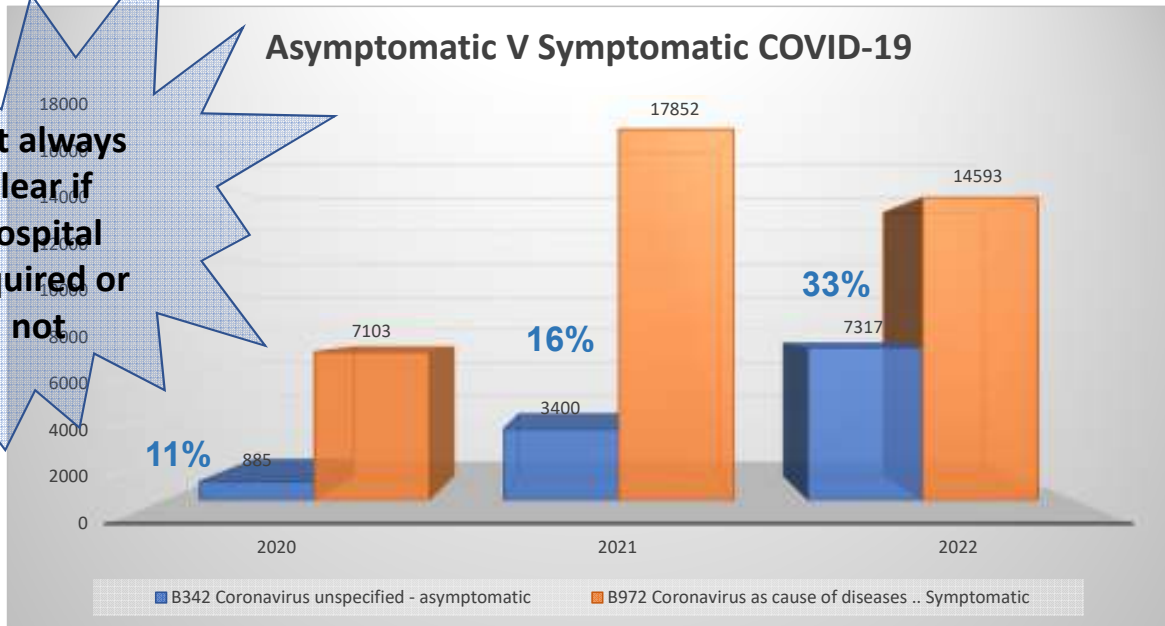
COVID-19 Age profile

DISCHARGE YEAR IS '2020'			DISCHARGE YEAR IS '2021'			DISCHARGE YEAR IS '2022'		Jan to end July
Keyfield	Total	Percentage	Keyfield	Total	Percentage	Keyfield	Total	Percentage
000->009 YEARS	88	1	000->009 YEARS	561	3	000->009 YEARS	1665	8
010->019 YEARS	111	1	010->019 YEARS	491	2	010->019 YEARS	724	3
020->029 YEARS	392	5	020->029 YEARS	1404	7	020->029 YEARS	1567	7
030->039 YEARS	604	8	030->039 YEARS	2358	11	030->039 YEARS	2332	11
040->049 YEARS	872	11	040->049 YEARS	2464	12	040->049 YEARS	1626	7
050->059 YEARS	1162	15	050->059 YEARS	2974	14	050->059 YEARS	1850	8
060->069 YEARS	1234	15	060->069 YEARS	3247	15	060->069 YEARS	2636	12
070->079 YEARS	1643	21	070->079 YEARS	3752	18	070->079 YEARS	4048	18
080->089 YEARS	1513	19	080->089 YEARS	3183	15	080->089 YEARS	4293	20
090->099 YEARS	366	5	090->099 YEARS	802	4	090->099 YEARS	1140	5
100->109 YEARS	2	0	100->109 YEARS	16	0	100->109 YEARS	26	0
TOTAL	7987	100	TOTAL	21252	100	TOTAL	21907	100

Top 10 Principal diagnosis for cases with COVID-19 2020 to July 2022

J128	Other viral pneumonia	14244
R05	Cough	1906
R060	Dyspnoea	1527
J22	Unspecified acute lower respiratory infection	1518
N390	Urinary tract infection; site not specified	1107
R509	Fever; unspecified	1041
O80	Single spontaneous delivery	823
R55	Syncope and collapse	813
J440	Chronic obstructive pulmonary disease with acute lower respiratory infection	788
O82	Single delivery by caesarean section	638

Timelines

29th Feb   **5th March**   **11th March**   **13th March**

1

1st COVID-19 case announced in Ireland.

2

Request from Dept. Health for data

3

HPO requested hospitals to prioritise COVID-19. Cases to be coded within 48 hours of discharge

4

National system in place to gather COVID-19 activity data.
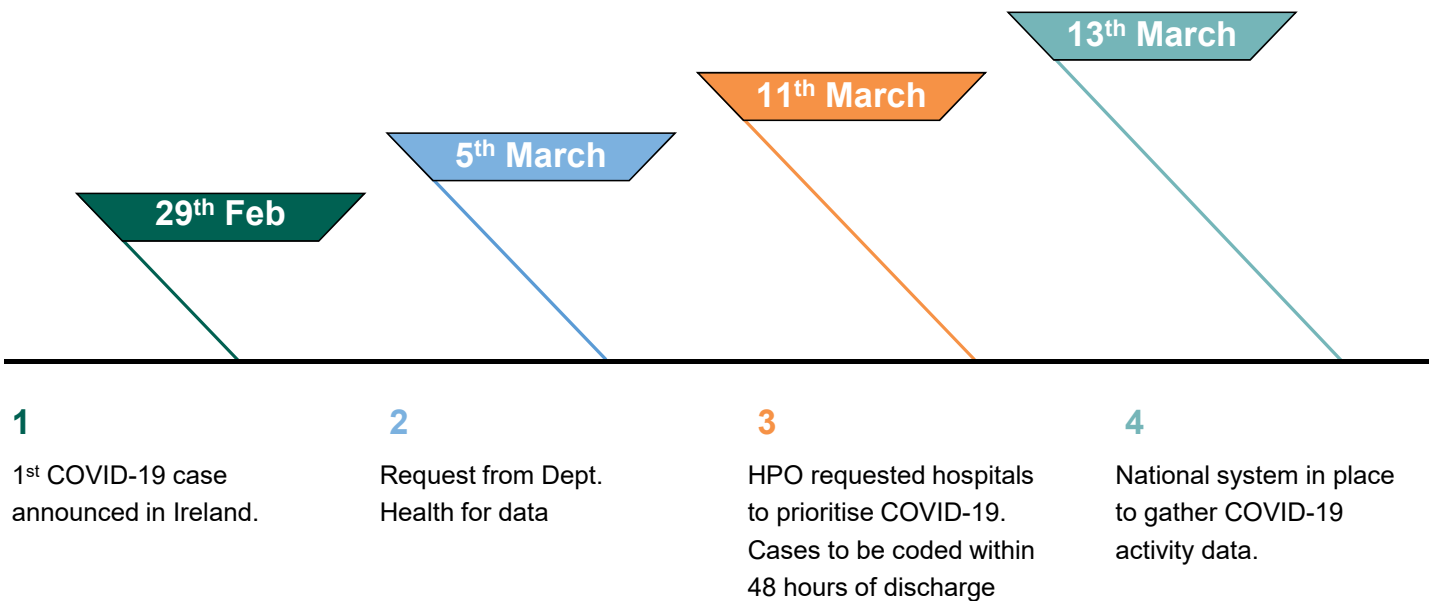
COVID-19 response

COVID-19 response

- Publication of FAQ's

- Input from senior clinicians to support coding queries

- Monitoring of COVID-19 data – queries to hospital

- Monitoring of coverage and compliance with 48 hours coding requirement

- Development of the daily report & dashboards

- New administrative variable added (flag)

- Support provided to HIPE data users

COVID-19 coding guidance

Classification guidelines for COVID-19

► Laboratory confirmed cases of COVID-19

► Clinically diagnosed or probable COVID-19

► COVID-19 Complicating pregnancy

► Suspected COVID-19, ruled out

► Post COVID-19 Conditions & multisystem inflammatory syndrome

► COVID-19 Vaccines causing adverse effect in therapeutic use

► HPO coding advisory: Unspecified pneumonia in COVID-19 cases

► Guidance on coding COVID-19 from antigen tests

COVID-19 Flag

Urgent response for collection during the pandemic

Lab-confirmed COVID-19 Past or Present

Case Types: This variable is collected for all inpatient and day cases. This is collected separately to ICD-10-AM codes for COVID-19.

Coders will choose "YES" if:

There is a diagnosis of Lab-confirmed COVID-19 during the current episode of care or there is documentation in the chart that the patient had a Lab-confirmed COVID-19 or Tested Positive with COVID-19 during a previous episode of care

The National Framework for Living with COVID-19

Ireland is at Level 5

We must now stay at home

Coronavirus **COVID-19**

Data Quality Reviews

- CVS hours – no ICU days

- More CVS hours than ITU days

- AO6 TRACHEOSTMY/VENT >=96HRS with no ICU days

- J18.9 Pneumonia unspecified V J12.8 Other Viral Pneumonia

- % of U07.1 COVID-19 Virus identified V U07.2 COVID-19 Virus not identified

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Data Quality Reviews

PICQ Performance indicators for coding quality

- Benchmark performance across hospitals

- Identify cases codes incorrectly

- Helps identify focused areas for training

- Provides feedback at point of coding so that same errors are not repeated. (email to coders the following morning after coding)

Chart Based Audit
Coding of COVID-19

- Chart based audits recommenced in May 2022 (Targeted)

- 4 hospitals audited – further 3 planned to end of October.

- Total of 70 COVID-19 cases reviewed

Findings

- Overall excellent coding of COVID-19 identified

- Small number of discrepancies for assignment of
  - ❑ B34.2   Coronavirus infection, unspecified site
  - ❑ B97.2   Coronavirus as the cause of diseases classified to other chapters

- Small number of discrepancies for assignment of
  - ❑ U07.1 COVID-19 Virus identified (Lab confirmed)
  - ❑ U07.2 COVID-19 Virus not identified (clinically diagnosed)

COVID-19 training sessions

6
Data quality sessions
413 participants

2
Coding COVID-19 sessions
268 participants

Data sessions
89
Participants

Finally…..

- Flexibility to respond, quick response

- Communication/contact with hospitals

- Lot of impacts on system – rich source of data

- Difficult to identify/distinguish between patients admitted with COVID-19 V those with additional diagnosis of COVID-19