



# Experience of Covid 19 outbreaks in Residential Care Facilities

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1



# Overview

- Introduction
- International experience
- 'Learning as we go'
- Community Liaison Team
- Connolly hospital response
- The outbreak experience
- Effect of hospitalisation
- Recovery phase



2

## Introduction

- SARS-CoV 2
  - Corona virus family
  - Global pandemic declared March 2020
- Residential Care Facilities
  - High risk patients
    - Age, comorbidities, functional dependence
  - High risk environment
    - High physical contact, multiple carers, living with many others



3

## International experience

- China (Wuhan)
  - Increased morbidity and mortality CFR >80 18%
    - Older people
    - Comorbid illness
- USA (Washington outbreak)
  - 81 of 130 residents – 57 % hospitalised - CFR 27 %
  - 34 of 170 staff – CFR 0%
  - 14 visitors – 36% hospitalised – CFR 7%
- Spain
  - Army called into RCFs
    - Abandoned residents
    - Living amongst the dead
- Italy
  - High numbers of deaths of older people CFR >80 yrs 20 %
  - One article suggesting 50% from RCFs



4

## Learning as we go

- Unknown extent of transmission from pre-symptomatic and asymptomatic pts
- Changing Guidelines
  - Symptoms
  - Testing
  - Visitors
  - Use of PPE
  - Certification of death
- Establishment of Crisis Management Teams / Outbreak Control Teams in CHOs
- Virtual reviews do not suffice for prolonged periods



5

## Community Liaison Team

- Daily communication with RCF-support/advice
  - DON
  - GPs
- After hours emergency number for evenings and weekends
- Weekly meetings with Covid Crisis Response Teams - CHOs
- COVID RCF clinical Risk Assessment tool
- Swabbing- learning & teaching RCF staff
  - Microbiology
    - Dedicated 15/70 processed daily swabs to RCF
- Virtual reviews where possible
- Face to face reviews
  - Crisis situations
  - GP unavailable



6

## Hospital response

- Community Liaison team
  - On site acute reviews
  - Treatment plans
  - Family meetings
  - Organising hospital admissions
  - Palliative care referrals
  - Follow up
- Connolly hospital nursing team (10RNs)
  - Support when RCF/agency staff unavailable
  - Primary contact for NH staff support remains CHO lead



7

## Outbreak experience

- Range of illness severity
- Identification of asymptomatic - mildly symptomatic residents
  - Deterioration in oral intake
    - Loss of independence with oral intake
    - Loss of appetite/thirst
  - Mobility & functional deterioration
- Identification of those very unwell
  - Quiet, no distress
  - Tolerating low oxygenation without increased RR
  - Signs of perfusion issues
- High stress environment
  - Increased workload with decreased staff
  - Unfamiliar staff
  - Mixed experience and use of PPE



8

## Outbreak experience

- Psychological impact
  - Residents
    - Isolation
    - Illness
    - PPE
  - Staff
    - Residents death
    - High stress work environment
    - Fear of contraction/cross infection of family
    - Illness in colleagues
    - Difficulty with staff absenteeism
  - Families
    - Fear for loved ones
    - Adapt to new methods of communication




9

## Hospital Outcomes

- Hospitalisation
  - Symptom mgt
  - Supportive care
- April 2020
  - 57 admissions
  - 16 covid+
  - 14 deaths ( 7 covid+)
  - 1 further death covid+ on dc
  - CFR 50% for admitted RCF covid+ residents



10

- Johns Hopkins
- Coronavirus Resource Centre
- CFR 6.3%
- 30 deaths per 100
- 40% hospital
- 60% community

Country	Confirmed	Deaths	Fatality	pop.
US	1,329,260	79,526	6.0%	24.31
United Kingdom	220,449	31,930	14.5%	48.02
Italy	218,070	30,560	13.9%	50.57
Spain	224,350	26,621	11.9%	56.98
France	177,094	26,383	14.9%	39.39
Brazil	162,699	11,123	6.8%	5.31
Belgium	53,081	8,656	16.3%	75.78
Germany	171,879	7,569	4.4%	9.13
Iran	107,603	6,640	6.2%	8.12
Netherlands	42,826	5,459	12.7%	31.68
Canada	70,093	4,991	7.1%	13.47
China	84,010	4,637	5.5%	0.33
Turkey	138,657	3,786	2.7%	4.60
Mexico	35,022	3,465	9.9%	2.75
Sweden	26,322	3,225	12.3%	31.67
India	67,161	2,212	3.3%	0.16
Ecuador	25,559	2,127	7.2%	12.45
Russia	209,688	1,915	0.9%	1.33
Peru	67,307	1,889	2.8%	5.91
Switzerland	28,884	1,831	6.0%	21.52
Ireland	22,996	1,458	6.3%	30.04
Norway	22,581	1,135	4.9%	11.54
Indonesia	14,032	973	6.9%	0.36
Romania	15,362	961	6.3%	4.93
Poland	15,996	800	5.0%	2.11
Philippines	10,794	719	6.7%	0.67
Pakistan	30,334	659	2.2%	0.31
Japan	15,777	624	4.0%	0.49
Austria	15,871	618	3.9%	6.99
Denmark	10,627	529	5.0%	9.12

11

## Recovery phase

- Sequelae
  - Weight loss
    - High protein/high calorie diet +/- oral supplements
  - Deterioration in mobility
    - Re-introducing mobilisation approp pressure relief/ Physio input
  - Deterioration in ADLs
    - Increased support- encouragement
  - Mood issues
    - Non-pharmacological strategies
      - Visits
      - Socialisation ( safe distance)

12