

A decorative graphic on the left side of the slide consisting of white and light blue lines that resemble a circuit board or a stylized tree. The lines are vertical and horizontal, with small circles at the ends, creating a network-like structure.

LIVING WITH COVID

SCOTT TWADDELL

RESPIRATORY AND GENERAL PHYSICIAN

JOHN HUNTER HOSPITAL/ HNE

COVID EXPERIENCE IN HNE

- NOT like the Western Sydney experience
 - Why?
- “The secret of war lies in communication” Bonaparte
- Learning by doing and making mistakes

USUAL COVID SYMPTOMS - DELTA

- Patients present later with this variant (D8-10 vs D4-6)
- Headache
- Arthralgia/ Myalgia
- Fever
- Laryngitis
- Dyspnoea +/- chest pain
- *Gastrointestinal symptoms – nausea/ vomiting/ diarrhoea

BASIC TREATMENT

- Inhaled budesonide (Pulmicort) 800mcg bd
 - STOIC trial
 - < 7 days of mild symptoms – 14 days or until admission
 - 139 pts – 10/70 (plac) vs 1/69 (Rx) developed significant COVID
 - NNT 8
- Symptomatic treatment generally
 - Hydration
 - Antiemetics
 - Simple analgesics
 - Cough treatments

RED FLAGS & TRIGGERS FOR ADMISSION

- High risk pts (unvacc) – Lung, heart, DM, obese, CKD, ATSI
- Most people deteriorate from respiratory function perspective
 - Chest may be clear to auscultation
 - SpO₂ > 92% (or 88% for chronic lung disease/ NMD/ CO₂ retainers)
- Dehydration (IV fluid)
- Antiemetics (Ondansetron)
- Analgesia (Paracetamol up)
- Cough treatments (Codeine)

DETERIORATION

- SpO₂ <92%
- Supplemental O₂ up to 4L → HFNP → CPAP → int/vent → ECMO
- O₂ N/P 4L + prone positioning ≥ 5hrs/ day
- HFNP 40L/ 40%
- CPAP 10cmH₂O + FiO₂ 0.6 (8-10L)

EVIDENCE/ GUIDELINES FOR TREATMENTS

- Budesonide 800mcg bd (STOIC, PRINCIPLE trials)
- Dex 6mg dly x 10/7*, Rem dly x 5/7, bari 4mg dly x 10/7* (HNE COVID Mx guideline – intranet)
- Prone > 5 hrs/ day (PRONA-COVID, others)
- CPAP vs HFNP vs O2 via mask (Perkins et al. MedRx)
 - CPAP clearly better
 - NNT 12 for CPAP & 151 for HFNP
- NP up to 4L (SpO2 92-96%*)
 - HF for comfort; no more than FiO2 0.4
- CPAP – start PEEP 10-12cmH2O
 - Titrate FiO2 to maintain SpO2 92-96%; start 4L
- <https://covid19evidence.net.au>

CASE STUDY - 51F

- BIBA from home in the lower Hunter Valley (D9)
- COVID Swab +ve 10/8
- Isolating at home
 - 2 daughters +ve
 - Husband and son -ve
- Worsening dyspnoea, lethargy, rigors, dizziness and cough
- No myalgias, HA, N&V but diarrhoea that morning
- First mRNA vaccine 5/8
- No significant medical B/G

- NSWAS

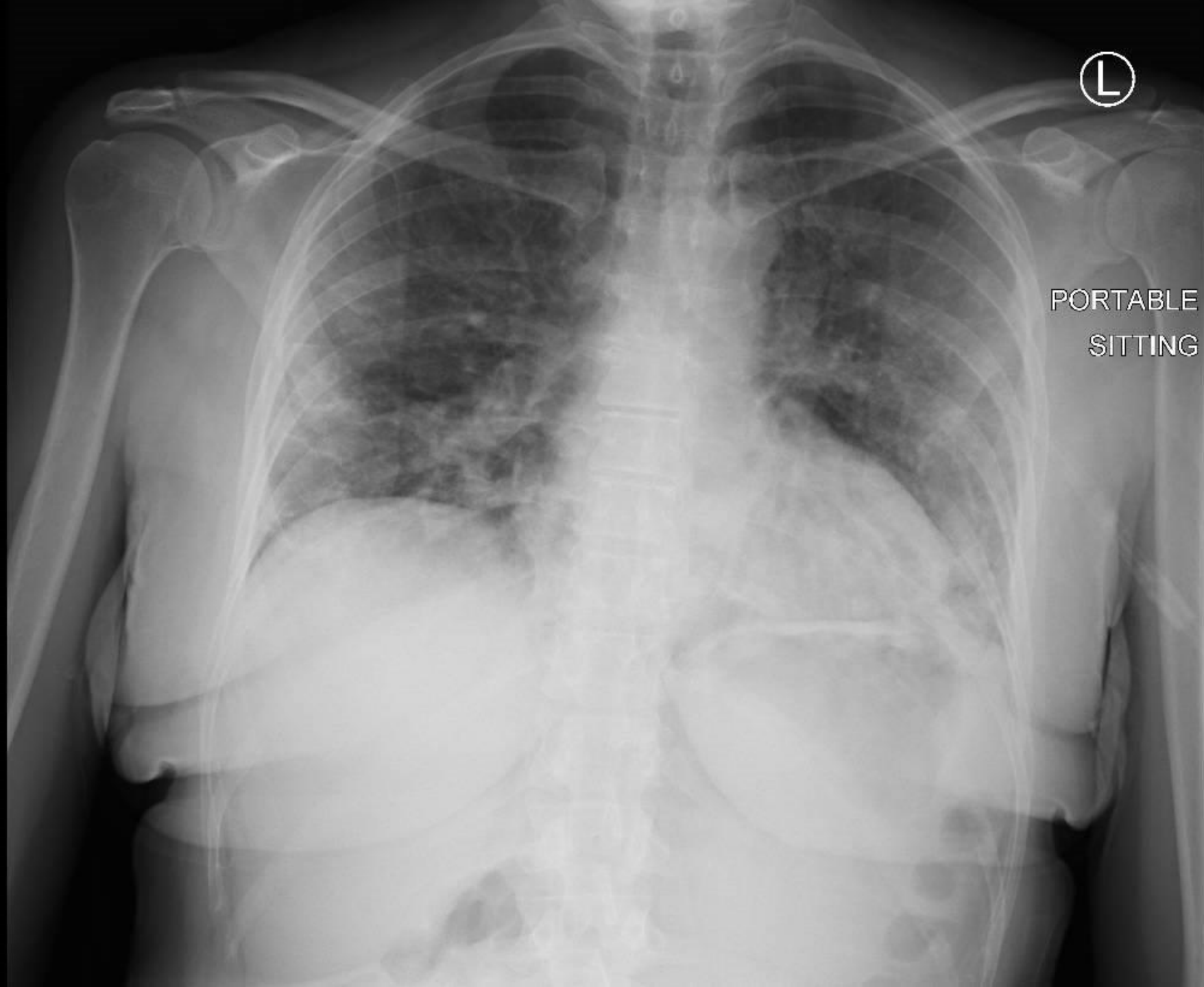
- P 110, T 38.1, RR30, SpO2 88% R/A → 95% on O2 (?)

- JHH F2

- P92, T 37, RR21, SpO2 94% on 1L
- Chest clear, HS DNM, abdo SNT
- Commenced budesonide 400mcg 2 puffs bd, proph. Enoxaparin, symptomatic Rx

- Clinical R/V 2200hrs

- O2 requirement increasing – SpO2 94% on 4L
- Added dexamethasone 6mg daily po & ceased budesonide



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PORTABLE
SITTING

DAYS (A2/D11-A3/D12)

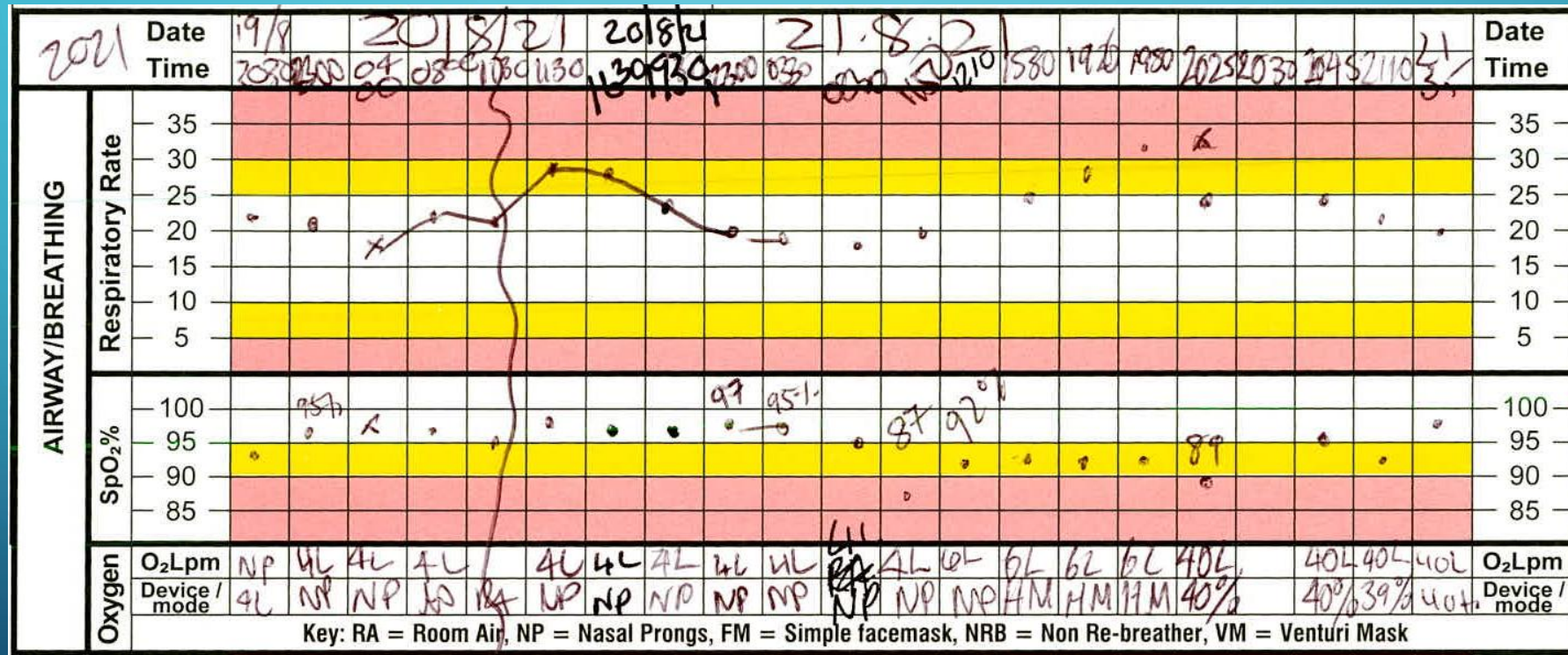
- A2 0900hrs - Mild chest tightness
 - RR28, SpO2 97% on 4L, afebrile
 - Chest – diffuse crackles
 - Added remdesivir x 5/7 (availability)
- A3 1200hrs - Increasing O2 requirement
 - SpO2 93-96% Hudson @ 8L
 - Bilateral crackles
 - Commenced baricitinib x 10/7*
 - Increase O2 as needed
 - D/W ICU re deterioration – to monitor
 - Self prone as much as possible

A3/ D12 1930HRS – A4/D13

- Rapid Response – SpO2 85%, RR 30
 - RR 27, SpO2 92% Hudson @ 8L
 - Increasing dyspnoea and respiratory effort
 - Widespread crackles
 - Commenced HFNP 40/40
 - ABG 2100hrs pO2 78 on FiO2 0.4
 - Plan to self prone O/N
 - HFNP up to 60L or move to CPAP
 - Consider T/F ICU if fails that (SpO2 \geq 92%)
 - R/V 0415 SpO2 98% on 40/40 – subjectively better
- A4/D13 - Feeling much better
 - P 64, RR 20, SpO2 98% 40/40, BP 116/74, T 36.6

A4/D14 - A7/D17

- A4 - Much better
 - 40/40 HF → 2L NP, SpO2 96%
 - Chest still some crackles but improving
- A5-7/D15-17 - Continued improvement
 - Decreasing O2 requirement
 - R/A D6/16
 - D/C D18 with daughters



		Date	22/8	23/8	23/8	22/8	04	05	07	10	12	15	17	19	20	20	20	23/8	23/8	Date
		Time	22	00	40	00	20	00	04	10	30	55	02	00	05	04	05	23	03	Time
AIRWAY/BREATHING	Respiratory Rate	35																		35
		30																		30
		25																		25
		20	24	25										20
		15																		15
		10																		10
		5																		5
		100																		100
		95																		95
		90																		90
85																		85		
Oxygen	O ₂ Lpm	40	40	40	40		40	40	40	40	40	40	40	30	30	40	40	40	25	20
	Device / mode	40	40	40	40		40	40	38	40	39	40	40	30	30	30	40	40	40	NP
Key: RA = Room Air, NP = Nasal Prongs, FM = Simple facemask, NRB = Non Re-breather, VM = Venturi Mask																				

[illegible]

LIVING WITH COVID

- Much more likely to be occasional/ incidental cases
- Management will be like other infectious diseases
- Caution and considered action
- Communication