#O2TheFix Swimming Between The Flags

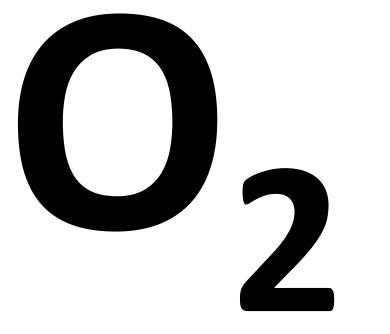


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Respiratory Clinical Nurse Specialist, Department of Medicine

Jessica Nand

Pharmacist Team Leader, Surgical Services & ICU Pharmacist



OXYGEN





Joe





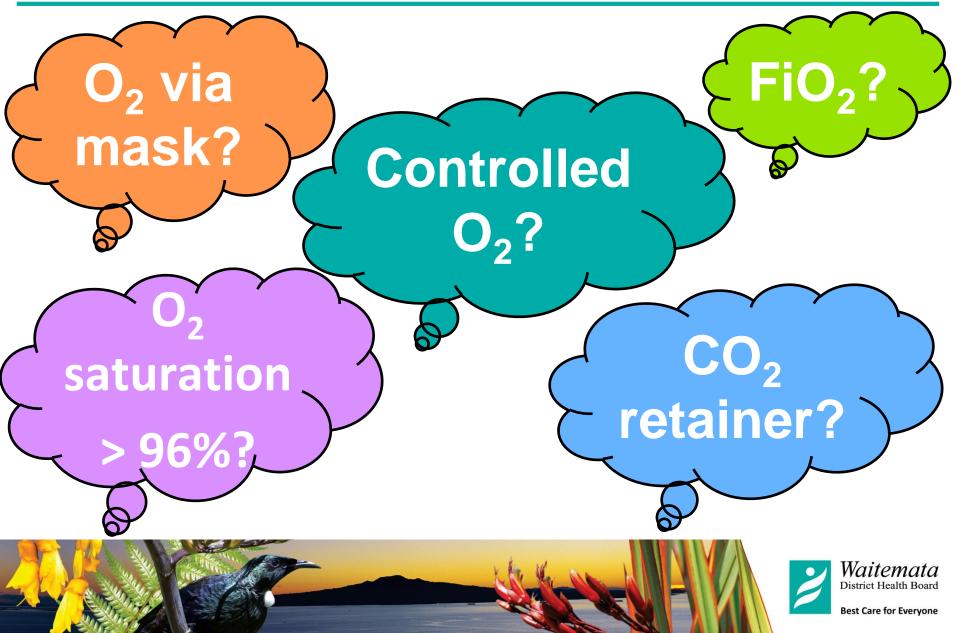


Which one?





Confusion



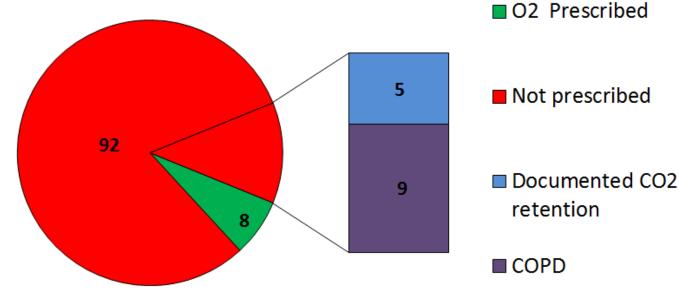
Evidence

- Oxygen titrated to a specific target saturation saves lives¹
- TSANZ Guideline "Swimming between the flags"²



Why does this matter to us?

- 9.7% Māori population in WDHB³
- Poor rate of prescribing⁴
- Unsafe administration⁴



Waitemata District Health Board Best Care for Everyone



Oxygen Steering Group

- WDHB Medication Safety
 Committee
- Consultant led multi-disciplinary steering group



Aim

- Improve understanding
- Prescribe appropriately
- Patient safety → "Swimming Between the Flags"



1. Baseline audit

Patients using oxygen?

- Prescribed?
- Device?
- Target saturation range?



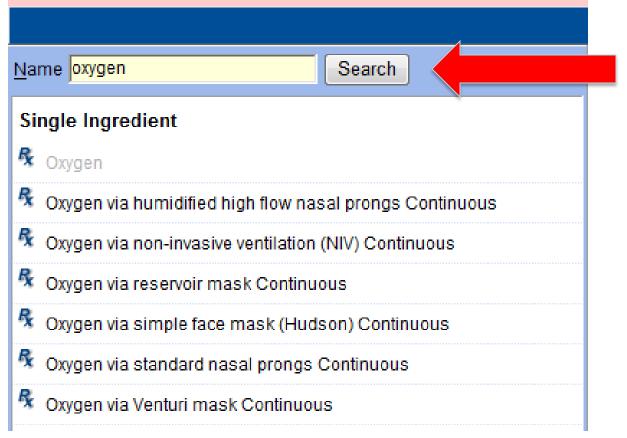






MINNIE, MOUSE TEST, NHI: 0005003, DOB:13/07/1

Allergies: Class Allergy to Penicillins - rash , Substance Aller





Medication	Details			
Oxygen via standard nasal prongs Continuous Inhalation	DOSE: 0.25 to 4 L/min Inhalation PRN minimum dosage interval 1 minute Target SpO2 = 88-92%			
Oxygen via standard nasal prongs Continuous Inhalation	DOSE: 1 to 4 L/min Inhalation PRN minimum dosage interval 1 minute Target SpO2 = 92-96%			





Medication	Details		
Oxygen via humidified high flow nasal prongs Continuous Inhalation	DOSE: 21 to 40 % O2 Inhalation PRN minimum dosage interval 1 minute Airflow rate 35 L/min. Target SpO2 = 88-92%		
Oxygen via humidified high flow nasal prongs Continuous Inhalation	DOSE: 21 to 40 % O2 Inhalation PRN minimum dosage interval 1 minute Airflow rate 35 L/min. Target SpO2 = 92-96%		
Oxygen via humidified high flow nasal prongs Continuous Inhalation	DOSE: 0 % O2 Inhalation PRN minimum dosage interval 1 minute For specialist use. Airflow rate = (prescriber to complete) L/min. Target SpO2 = (prescriber to complete) %		





MINNIE, MOUSE TEST, NHI: 0005003, DOB:13/07/1942, Age:74 years, Weight:79.9 kg (01/03/2017) (Mosteller)

Allergies: Class Allergy to Penicillins Add							
Meds On Adm Scheduled - 5 Variable Dose		PRN - 1		Stat - 1	Infus	Infusion - 2	
Cease] Prescribe Quick List Protocol] Discharge		e Trans <u>f</u> er From Edit <u>A</u> dminister T		lit <u>A</u> dminister Time	ne Telepho <u>n</u> e Or		
Medication		Date	Time	Dose	Route		
Oxygen via simple face mask (Hudson) Continuous Inhalation DOSE: 5 to 10 L/min Inhalation PRN (11:54) minimum dosage interval 1 minute Target SpO2 = 92-96%		27/03/2017	11:55			∎ lfn ● Ne	
27/03/2017	Jessica NAND (Pharmacist)						





3. New oxygen policy



Clinical Practices Manual

Oxygen Therapy – Inpatient & STOT Ordering

Contents

1.	Overview				
2.	Key Expectations				
3.	Indicatio 3.1 3.2 3.3	ns and Assessment			
4.	Hazards				
5.	Prescript 5.1 5.2 5.3 5.4 5.5	tion			
6.	6.1 6.2	tration and Monitoring 7 Supply Point 7 Flow Meter 8 Oxygen tubing 8 Patient consent and education 9			



4. Campaign and launch week

O₂ the fix, aim 92-96 If high CO₂, aim 88-92

#O2TheFix





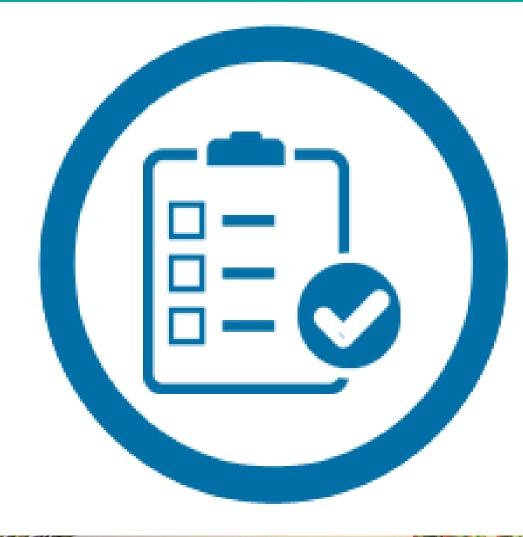
5. Staff education







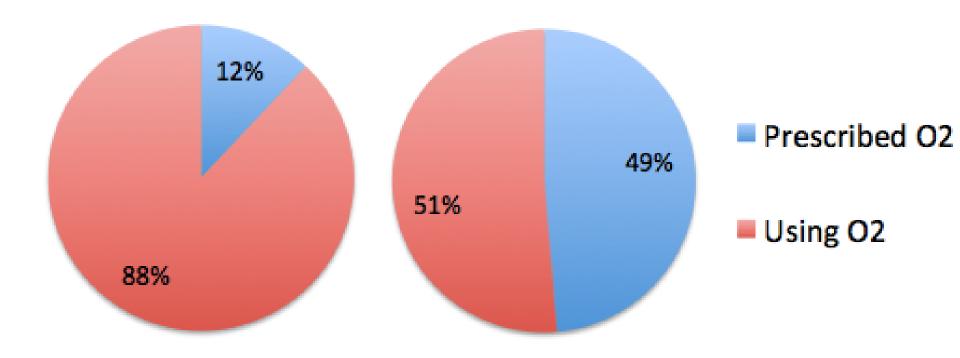
6. Post campaign audit







Results



Baseline

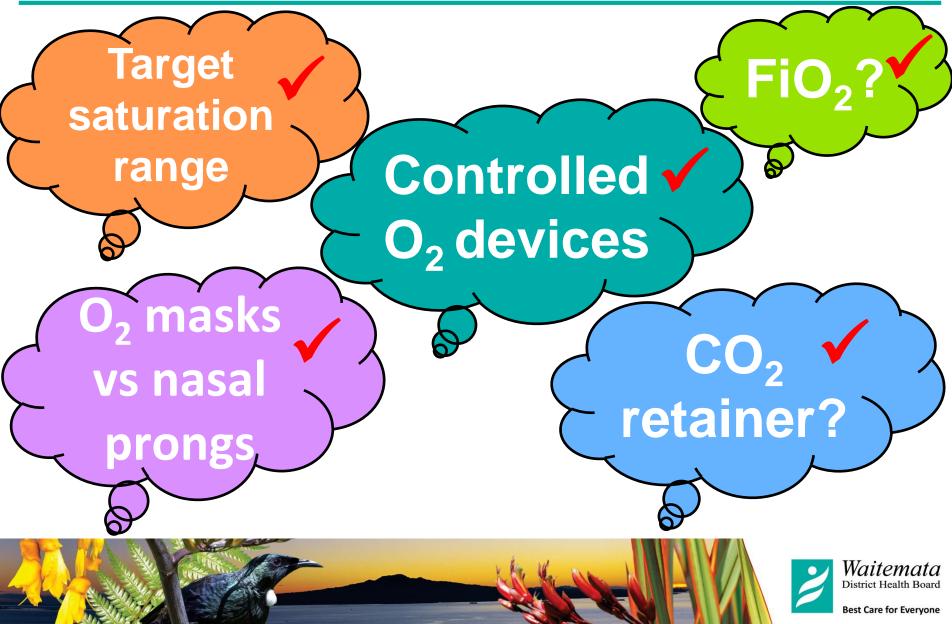
Post





District Health Board

Understanding



Tom



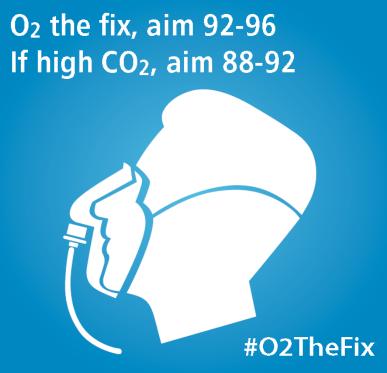
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Moving forward

- Orientation & education of new staff
 O₂ the fix, aim 92-96
- Stickers
- Publication







Conclusion

- Better
- Best
- Brilliant





References

- 1. Austin M.A, Wills K.E, Blizzard L, Walters E.H. and Wood-Baker R. Effect of high flow oxygen on mortality in chronic obstructive pulmonary disease patients in prehospital setting: randomised controlled trial *BMJ* 2010; 341 :c5462
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- 3. Mortality Collection Data Set (MORT), Ministry of Health; National Minimum Data Set (NMDS), Ministry of Health
- 4. Boyle M, Wong J. Prescribing oxygen therapy. An audit of oxygen prescribing practices on medical wards at North Shore Hospital, Auckland, New Zealand. *NZ Med J.* 2006;119.





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- Monica McGrath, ICU Outreach Nurse
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- Dr Jonathan Casement, SMO ICU
- Andrew Watson, ADU Nurse Educator
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