



| Case study: Chronic Obstructive Pulmonary Disease

Chronic Obstructive Pulmonary Disease (COPD) - improve patient experience by developing optimal care after discharge (reducing 28-day readmission) and at end of life.



Evidence: in 2014/15, COPD in NSW accounted for 15,311 hospital admissions at a cost of \$330M. Variations to patient management not optimal; with many patients admitted through ED on multiple occasions.



Implementation: a coordinated approach focussing on improvements to diagnosis, exacerbation management, optimising health through on-going care and palliative management of end-stage symptoms.



Measurement: In 2019/20 it is expected to see a more effective and efficient use of resources.



Mary* was diagnosed with COPD. She was having anxiety attacks, getting panicky and couldn't breath.

"I have one day a week instruction about managing my disease and there is nothing but encouragement all the way. I know what to do with the action plan, and if I get into trouble I know exactly the next four steps I have to take before I contact my doctor"

For Elke and other people with COPD, knowing how to manage exacerbations of their condition means avoiding a visit to the ED.



Acknowledgement: Port Macquarie Base Hospital Respiratory CNC – Sarah Buckley

Base Hospital Respiratory CNC – Sarah Buckley

3

Measure what we should not what we can

Measure value – from a patient, clinician, service & system perspective



Economic Assessment Quarterly Monitoring Patient reported measures

Activity Benefit Costing Studies Registry of Outcomes, Value & Experience (ROVE)

Evaluations



Sustainability, economic justification, cost avoided, inform purchasing

To monitor and influence change

Outcomes & experience

Clinical interface, analyses & evaluate

Repurposing, inform purchasing

Assess actual NAP service delivery costs, ensure accurate funding

Link LBVC data (administrative PRMs, clinical audit & EMR)

To measure impact and compare to predicted estimates

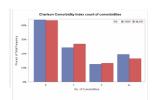
Aims



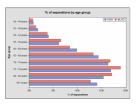
"The rigour of the program appeals to people. The evidence of the data and models have reduced the squeaky wheels. This makes LBVC look a bit different to other programs or strategies that have come before". Executive Sponsor, LHD

Setting the Scene...COPD in MLHD and NSW 2010/11 to 2014/15











COPD cohort is complex

Around 56% of COPD patients had **one or more comorbidity** (MLHD &NSW)

Slightly fewer patients in MLHD with 3 or more comorbidities

MLHD had the highest rate of separation for COPD in the state

Standardised Separation Rate (adjusted for age and sex) per 10,000 was 25.2 in the lowest LHD and 90.8 in MLHD

MLHD COPD patients tend to be older

Higher proportion of separations for primary COPD for the age groups 70-74, 75-79 and 80-84 compared to NSW

Readmission rate was rising as ALOS fell

Overall higher rate of readmission in MLHD (19.6% to 24.4% compared to NSW 19.2% to 20.8% over the period)

Slightly shorter ALOS in MLHD (MLHD 4.9 days in 2014/15 compared to 5.5 days for NSW)

5

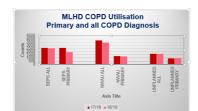
NSW GOVERNMENT

5

COPD in MLHD and NSW – first 2 years of LBVC (17/18 & 18/19)

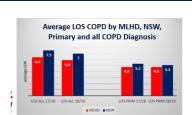






MLHD unlike NSW fall

in separations where COPD is the Primary



Overall utilization for COPD as a Primary Diagnosis is relatively stable but:

Slight fall in unplanned (emergency) admissions where COPD is the PD

Slight fall in separations and NWAU where COPD is a comorbidity

Everything else is relatively stable

Diagnosis

Complexity is stable

ALOS relatively stable where COPD is the Primary Diagnosis

ALOS continues to fall where COPD is a comorbidity

О

NSW GOVERNMENT

COPD @ Young District Hospital, Murrumbidgee LHD

Context

- Young District Hospital was the first of the MLHD LBVC projects, following launch of the program in July 2017.
- This project was developed as the first non-ABF funded site and was initiated as
 a pilot project running from September to December 2017.
- · Clinical audit demonstrated significant variations in the areas of:
 - · Medication management, including oxygen prescription
 - · Variation in availability of COPD action plans
 - · Discharge Planning

Strategy

Ensure a patient journey approach to the management of patients with COPD

- · Review all patient medications
- Ensure oxygen saturations were within recommended target range [88-92%]
- · Reduce admissions and readmission of patients with COPD

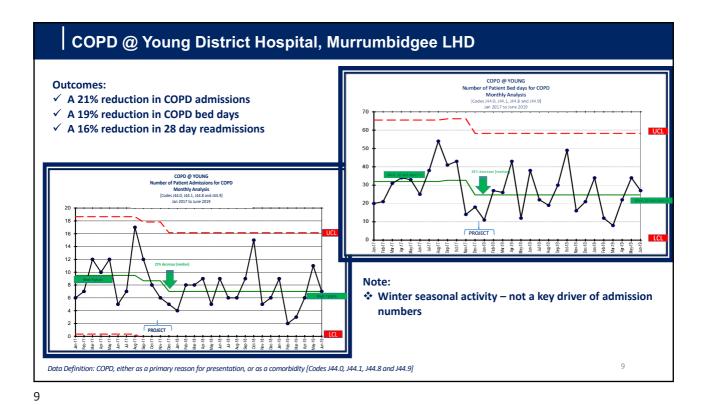






7

Stepwise Management of Acute Exacerbation of COPD Rever on COPD X Guidelines Outputient Management of COPD University State of S



COPD @ Young District Hospital, Murrumbidgee LHD Conclusion Pulmonary Disease Effective management of COPD across the patient journey [COPD] is a primary driver for reducing re-admissions. cklist for Discharg • Translating COPD-X guidelines into evidence-based model of care, supported by tailored patient and clinical resources. · Demonstrated significant and sustained reduction in DISCHARGE PLANNING- Please Circle, date and sign admissions and re-admissions. **Next Steps:** A patient journey approach to the management of patients with COPD • Scaling across Murrumbidgee (32 facilities) · Monitoring status with on-line reporting tool Health Murrumbidgee Local Health District