

Name of Journal: *World Journal of Clinical Cases*

Manuscript NO: 59053

Manuscript Type: CASE REPORT

End-of-life home care of an interstitial pneumonia patient supported by high-flow nasal cannula therapy: A case report

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The patient was treated with a novel combination of metronidazole (500 mg TDS) and prolonged breathing of humidified oxygen via **high-flow nasal cannula** of 60 L.min⁻¹, FIO₂ (0.60) for 14 days. A repeat CT examination after **therapy** demonstrated complete resolution of PC in conjunction with a clinical improvement (Fig. 1).

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Forty-one (50.6%) patients were transferred to intensive care unit, 30 (37%) were mechanically ventilated and 9 (11.1%) were under **high-flow nasal cannula** (HFNC) supplement. Univariate analysis showed that lymphoid malignancies, post-BMT status, application of mechanical ventilator or HFNC were associated with disease-related mortality.

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High-flow nasal oxygen therapy (HFNOT) delivers warm and humidified oxygen through a **nasal cannulas** with a **high flow rate** (up to 60 L/min) and facilitates increase in the fraction of inspired ...

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A low-flow oxygen delivery system provides supplemental oxygen directly into the **patient's** airway at a flow of 8 L/min or less. Because this **flow** is insufficient to meet the **patient's** inspiratory volume requirements, it results in a variable FiO₂ as the supplemental oxygen is mixed with room air. **Nasal catheter** FiO₂ range is 22% to 45%.

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However, the **nasal cannula flow rates** range from 1 L to 6 L, delivering 24% to 44% oxygen, whereas the simple face mask delivers 35% to 50% oxygen which is achieved with **flow rates** from 6 L to 12 L. A **patient** who has had a left pneumonectomy to remove a lung cancer is returned to the unit from surgery.



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Feb 24, 2020 Patients with fibrotic interstitial lung disease (FILD) often experience gas exchange abnormalities and ventilatory limitations, resulting in reduced exercise capacity. **High-flow nasal cannula (HFNC) oxygen therapy** is a novel treatment, whose physiological beneficial effects have been demonstrated in various clinical settings. We hypothesized that HFNC oxygen therapy might be

Author: Atsushi Suzuki, Masahiko Ando, Tom

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Author: Lin Ding, Yu Zhao, Xuyan Li, Rui Wang, Y...

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