

The Invacare® XPO₂ Portable Oxygen Concentrator

- **Truly portable**
Ideal for active and travelling oxygen-dependent patients
- **Maximum independence**
Compact and lightweight, encourages ambulatory patients to make the most of their independent lifestyle
- **Clinical efficient oxygen delivery**
Sensi-Pulse constant minute-volume technology delivers only clinical beneficial oxygen at the beginning of inspiration, with comfortable bolus delivery and ensuring patients stay oxygenated
- **The perfect ambulatory partner**
True portability, high clinical efficacy and a simple user interface gives patients confidence and freedom to travel, with the economic benefits of the non-delivery model
- **Proven track record**
4-years proven track record with more than 50'000 patients treated worldwide

Don't wait any longer, offer your oxygen-dependent patients a more active and independent lifestyle!

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Yes, you can.™

Invacare® | XPO₂

Clinical Evidence on XPO₂ Portable Oxygen Concentrator

COUILLARD A, FORET D, BAREL P, BAJON D
oxygen therapy by a portable concentrator with a demand valve: a randomized controlled study of its effectiveness in patients with copd
Rev mal respir. 2010 NOV; 27(9):1030-8.



Yes, you can.™

Source Data

Authors: Couillard A, Foret D, Barel P, Bajon D

Title: Oxygen therapy by a portable concentrator with a demand valve: a randomised controlled study of its effectiveness in patients with COPD

Source: Rev Mal Respir. 2010 Nov;27(9):1030-8.

Study Aim and design

• This prospective randomized study aimed to compare clinical efficacy of XPO₂ pulse-dose portable concentrator (O₂-P) with traditional continuous-flow liquid oxygen (O₂-L)

• Nineteen (19) patients with stable, uncomplicated oxygen-dependent COPD were randomly assigned on pulse-dose portable concentrator (O₂-P) or continuous-flow liquid oxygen (O₂-L)

• All patients were existing home oxygen users with an O₂ prescription at rest or deambulation, and had the ability to carry portable devices

• Patients were assessed for exercise capacity, dyspnea and SaO₂ at rest and during exercise

• A standard 6-minute walk test (6MWT) was used, and each patient underwent one of the two with the selected delivery system. After 1 hour rest, the 6MWT was repeated with the other oxygen device

Key findings

• This non-inferiority clinical trial on nineteen (19) patients demonstrated that the clinical benefits of pulse-dose portable concentrator (O₂-P) are similar to traditional continuous-flow liquid oxygen (O₂-L)

• The portable oxygen concentrator (O₂-P) allowed sustained mobility and ambulation without increased dyspnea compared to O₂-L, with the independence of not relying on oxygen delivery

• The decrease in SaO₂ during the 6MWT were identical for O₂-P and O₂-L, as demonstrated in previously published clinical literature

• There was no statistically significant difference between SaO₂ at rest and after the 6MWT obtained while using O₂-P and O₂-L

• Exercise capacity, dyspnea and SaO₂ at rest and during exercise in patients using this pulse-dose portable concentrator were similar to those using continuous-flow portable liquid oxygen device

Key quotes

• "This study demonstrates that clinical efficacy of a pulse-dose portable concentrator (O₂-P) is identical to continuous-flow portable liquid oxygen device (O₂-L)"

• "Improvements in patients independence with XPO₂ pulse-dose portable concentrator are similar to those observed with continuous-flow portable liquid oxygen device, and could reduce the cost of oxygen therapy"

• "When patients carried the device on the shoulder, the portable oxygen concentrators was considered lighter and more practical, especially when compared with a fully loaded O₂-L device"

Key illustrations

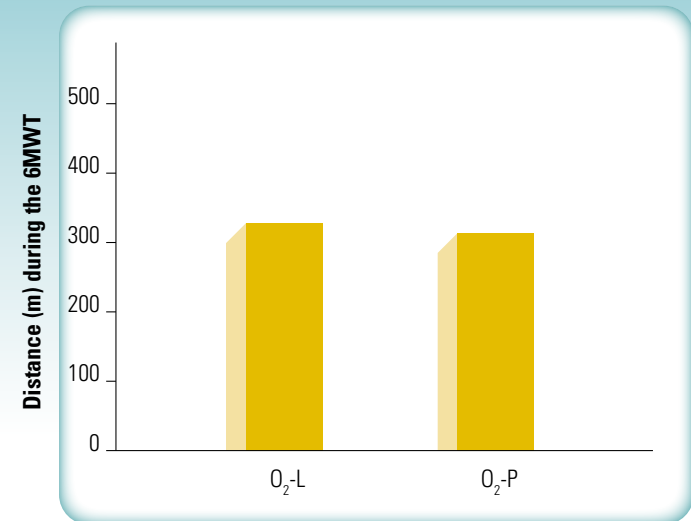


Figure 1 There was no statistically significant difference between exercise capacity of the O₂-P and the O₂-L group

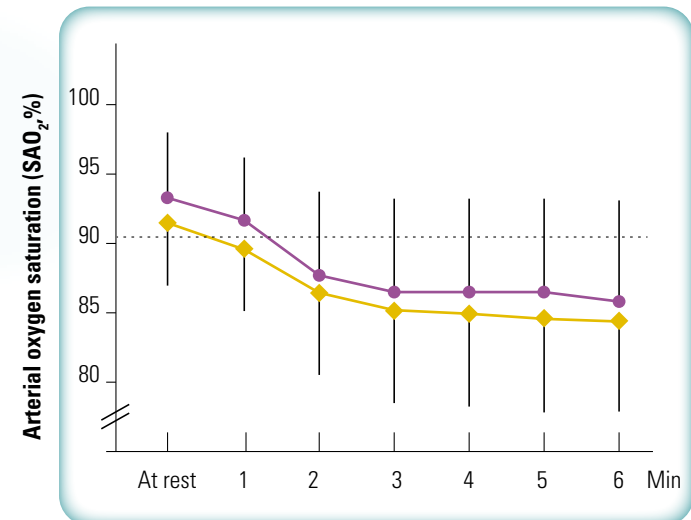


Figure 2 The SaO₂ during the 6-minutes walking test was very similar in the O₂-P and O₂-L group