

Home oxygen fires in the United States: 2017-2021

In September 2019, **BPR Medical** reported that someone dies in a home oxygen fire at least every four days in the US.¹ Further analysis, **Firebreaks: a risk-based approach to safer home oxygen delivery** published in 2021, confirmed that these fires remain a material public health issue, with burns delivering a significant human impact and financial burden.

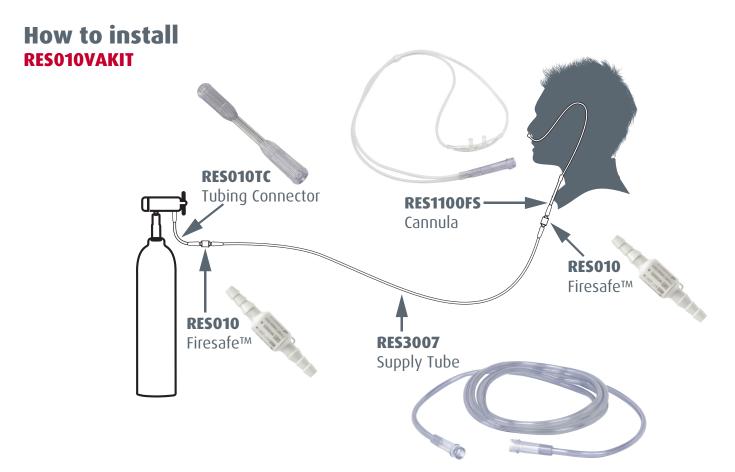






of patients with burns attributable to **smoking on home oxygen** die within a year of being discharged.⁴





Property Damage - Out of the 567 incidents:

may have resulted in a cylinder explosion

35% saw a whole dwelling destroyed

45% A A Revacuation A Revacuat

Patient education alone does not work...

Despite patient education on the risks, smoking was associated with the source of ignition in







- Weighted to reflect population differences: BPR Medical (2019), The prevalence and impact of home oxygen fires in the US, available at: http://www.firebreaks.info/wp-content/uploads/2019/09/BPR-WhitePaper-2019-v6.1.pdf
- Mastropieri et al. (2020), 18 Stop the Burn: A Smoking and Home Oxygen Safety Initiative with Use of Firebreaks, Journal of Burn Care & Research, 41(1):S15. DOI: https://doi.org/10.1093/jbcr/iraa024.022
- Paradigm (2018), The High Price of Burn Injuries, available at: https://www.paradigmcorp.com/news/the-high-price-of-burn-injuries/
- Singer. et al. (2020), Mortality From Burns Sustained on Home Oxygen Therapy Exceeds Predicted Mortality, Journal of Burn Care & Research, 41(5):976–980. DOI: https://doi.org/110.1093/jbcr/iraa097
- Wolff, B.K. et al. Flash Burns While on Home Oxygen Therapy: Tracking Trends and Identifying Areas for Improvement. American Journal of Medical Quality. Pre-published July, 11, 2016, DOI: 10.1177/1062860616658343

...and should be combined with low-cost risk control measures such as thermal fuses (firebreaks):

The decrease in the number of patients

admitted to hospital as a result of oxygen-related burns following the distribution of firebreak kits.²

In England,
where firebreaks
have been
mandatory since
2006, there are
nearly 20x fewer
oxygen fire
fatalities than
in the US.1



For a copy of the report visit firebreaks.info/unitedstates



