

Study Summary Report

Reusable versus Single-use Laryngoscopes

Life Cycle Cost and Environmental Savings

Reusable versus disposable laryngoscopes environmental and economic considerations.

Jodi D. Sherman, M.D., Lewis Raibley, B.Eng., Matthew Eckelman, Ph.D., Yale University, ASA 2014

Life Cycle Assessment is an internationally, standardized, science based approach to **quantify multiple environmental and public health impacts of a product and/or process over its entire life span**, from raw material extraction, device production, transport, use and reusable and end of life disposable. Life Cycle Assessment **should support procurement in decision making** on the **real costs** and **environmental burden** of a product.

Significant Life Cycle Cost and Environmental Savings with reusable vs. single-use Laryngoscope combinations.



Environmental Savings:
Greenhouse Gas Emissions (GHG) measured in CO₂ equivalents

~85% p.a.

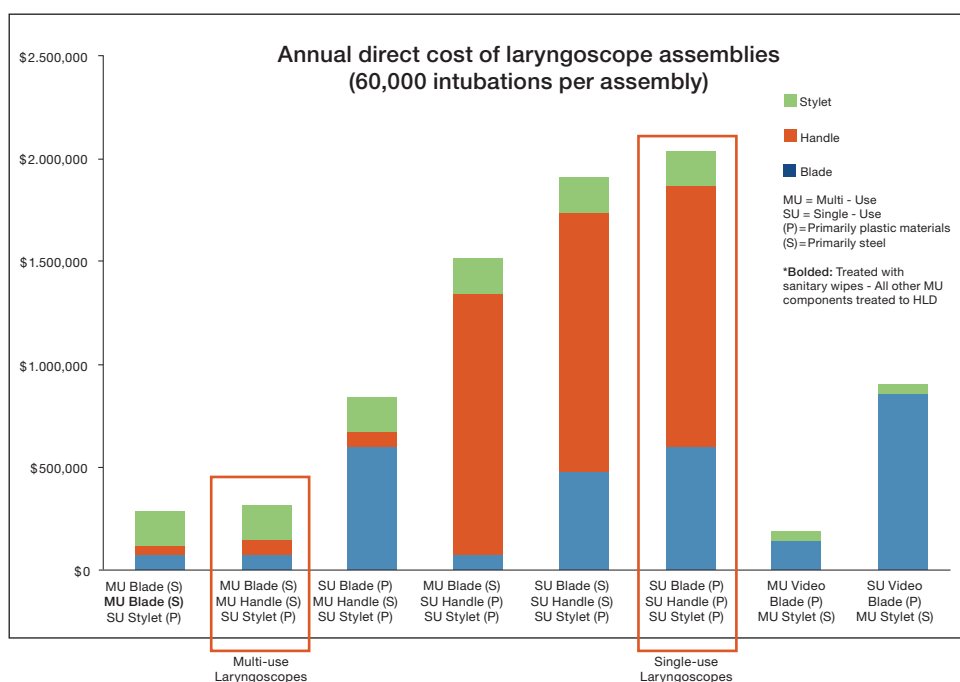


Annual Operating Cost Savings:
Based on 60.000 intubations in Yale University per year and 4000 reprocessing cycles of reusable laryngoscope systems

~88% p.a.

SAVE UP TO - 1.8 Mio \$ per year with reusables

The more reusable Laryngoscope components used the higher Life Cycle Cost Savings are.



Source: Jodi D. Sherman, M.D., Lewis Raibley, B.Eng., Matthew Eckelman, Ph.D. Reusable Versus Disposable Laryngoscopes Environmental and Economic Considerations. Poster Abstract #A2171 presented at ASA Congress 2014

