

SINGLE USE CANISTER FREE NEGATIVE PRESSURE WOUND THERAPY (NPWT): AN ECONOMICAL ALTERNATIVE

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Objectives




Estimate the economic impact of single use canister free NPWT for our hospitalised patients, usually equipped with portable NPWT devices.

Methods

Comparison between calculated cost of portable NPWT (RENASYS GO™) and estimated cost of single use canister free NPWT (PICO™) from prescription of NPWT in 2013 to 2015.

Results

37 patients treated with RENASYS GO™ = 477 days of treatment
All could have been treated by PICO™ (ulcers, traumatic wounds, eschar, stump)

Portable NPWT (RENASYS GO™) Calculated cost		Single use canister free NPWT (PICO™) Estimated cost	
 		 <div style="border: 1px solid black; border-radius: 50%; padding: 10px; display: inline-block;"> 1 kit = 1 pump + 2 dressing = 7 days </div>	
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> Daily cost 40.28 € </div>		<div style="border: 1px solid black; padding: 5px; display: inline-block;"> Daily cost 22.21 € </div>	
Rental of devices	13 240 €	Buy of consumables	15 192 €
Buy of consumables	9 672 €		
Total cost	22 912 €	Total cost	15 192 €
+ Outdated cost	1 439 €		

Discussion

- ◆ Nursing time not considered in this cost evaluation (shorter for PICO™ than RENASYS GO™).
- ◆ PICO™ cannot be used for some indications (abdominal surgery highly exsudative for example (>500mL/week)) but it is appropriate for deep wounds (<2cm) with standar gauze or faom fillers.
- ◆ Wellbeing of patients optimised with PICO™ (less noisy, less painful, less heavy, more autonomy for the patient).
- ◆ Stock management more easier with PICO™ but no modularity and no Y connections.
- ◆ No time to get a pump because no rental.

Conclusion

In 2013, 2014 and 2015, use of PICO™ instead of RENASYS GO™ would have allowed an economy of 7 720 € (-34%).

With many advantages, PICO™ is an economical alternative to RENASYS GO™ for the NPWT.