

NEGATIVE-PRESSURE WOUND THERAPY: A PHARMACOECONOMICS ASSESSMENT REVIEW

BACKGROUND (PHARMACOECONOMICS)

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1. Aim:

In this review we aim to evaluate the cost-effectiveness, cost-benefit and cost-utility in the application of Negative-Pressure Wound Therapy (NPWT).

(Background)

- The implementation of NPWT in chronic wounds has raised concerns about the economic costs and respective clinical benefits.
- Farmocoeconomics assessment are fundamental to decide therapeutic options based in the best available evidence.

COST EFFECTIVENESS	COST BENEFIT	COST UTILITY
Clinical Results (Clinical units)	Applicability of defined interventions	Perception of the patient regarding the interventions to which he was subjected
Life years gained; Avoided deaths; Avoided days of disability; Healing.	Number of visits / week; Average minutes / treatment; Costs of the dressing materials.	Patients assessment of quality of life.

2. Method: We developed a systematic literature review according with the Joanna Briggs Institute methodology. For critical appraisal we used this instruments / tools: PRISMA (Systematic Reviews and Meta-analysis), CONSORT (Randomized Trials) and STROBE (Observational Studies).

Overall were selected from a total of 59 studies (initial search results) 6 studies (2010 – 2015):

2 Systematics reviews; 1 Cohort study; 1 Metanalysis; 1 Randomized trial & 1 Probabilistic study.

3. Results / Discussion (C – E / C – B / C – U):

The use of NPWT resulted in improvements in the healing process by the decrease in HEALING TIME;
The use of NPWT led to a decrease in the WOUND AREA;

With the use of NPWT was verified:

- Decrease in NUMBER OF VISITS / TREATMENTS PER WEEK;
 - Decrease in NURSING TIME required to perform wound treatment;
- COSTS WITH MATERIALS are higher in NPWT, however, this represents a LOWER TOTAL COST because of the decrease in cost with human resources and time spending;

Improved cost-utility for NPWT as evidenced in the studies (3) with quality of life assessment;
In general, more QALYs are observed with the application of NPWT.

4. Main conclusion: Critical search of evidences helps to take informed decisions with better outcomes to patients, professionals and the organizations. Therefore NWPT demonstrates advantages considering a pharmacoeconomic appraisal.