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NEGATIVE-PRESSURE WOUND THERAPY: A PHARMACOECONOMICS ASSESSMENT REVIEW

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.
- Pharmacoeconomics assessment are fundamental to decide therapeutic options based in the best available evidence.

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.