Title:
Improvement Project for Dental Medical Instrument Management in Oral Surgical Ward

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Session Title:
Research Poster Session 1
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RSC PST 1: Friday, 28 July 2017: 12:00 PM-1:30 PM

Keywords:
Medical instrument management, simplified operation and sterilization

References:


Abstract Summary:
The correction management of medical instruments could prevent the loss of instrument sets from damage or expiration of disinfection validity, reduce the risk of nosocomial infection.

Learning Activity:

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<tr>
<th>LEARNING OBJECTIVES</th>
<th>EXPANDED CONTENT OUTLINE</th>
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<td>Reduce the damage rate and re-sterilization rate for the medical instruments.</td>
<td>According to the assessment data of ward units for dental medical instruments and sterile sets, dated from June to September in 2015, it’s found that damage rate was up to 15%, and the re-sterilization rate of expired set was 6.3%.</td>
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<td>From the current situation analysis found problems.</td>
<td>while the major inductions include, no specialized unit, no exclusive management personnel, device cleaning via in-correct process, no internal check system, and lack of in-service education, etc.</td>
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A project team was set up, and in order to reduce the damage rate and re-sterilization rate for the medical instruments. The improvement strategies were made, including specialized unit establishment, exclusive management personnel allocation, amendment for standard operation procedure on instrument management, routine in-service education, etc.

After the intervention, the damage rate of instrument was down to 3.3% from 15%, and the re-sterilization rate was down to 1.8% from 6.3%.

Ever since the implement successfully, the project could not only promote the effectiveness of medical instrument management, but also cut down the time in instrument treatment, in addition to improve the environment hygienic, so as to achieve working satisfaction and safe-keeping of patients.

Abstract Text:

Purpose:

Reduce the damage rate and re-sterilization rate for the medical instruments in oral surgical ward from Taiwan.

Methods:

According to the assessment data of ward units for dental medical instruments and sterile sets, dated from June to September in 2015, it’s found that damage rate was up to 15%, and the re-sterilization rate of expired set was 6.3%. While the major inductions include, no specialized unit, no exclusive management personnel, device cleaning via in-correct process, no internal check system, and lack of in-service education, etc. Therefore, a project team was set up, implementation period have three stages from September 1, 2015 to March 31, 2016. In the planning period (September 1, 2015 to October 31, 2015), including the platter cleaning equipment planning and sterilization operations, the development of the daily use of equipment benchmarks, arrangements for the management and check, the planning unit responsible for processing equipment Of the job, arranged education and training. During the implementation period (November 01, 2015 to February 14, 2016), the improvement strategies were made, including specialized unit establishment, exclusive management personnel allocation, amendment for standard operation procedure on instrument management, routine in-service education, etc. Evaluation period (February 15, 2016 to March 31, 2016) for the statistical rate of equipment failure and expired sterilization rate.

Results:

The damage rate of instrument was down to 3.3% from 15%, and the re-sterilization rate was down to 1.8% from 6.3%.

Conclusion:

The correction management of medical instruments could not only prevent the loss of instrument sets from damage or expiration of disinfection validity, reduce the risk of nosocomial infection. Ever since the implement successfully, the project could not only promote the effectiveness of medical instrument
management, but also cut down the time in instrument treatment, in addition to improve the environment hygienic, so as to achieve working satisfaction and safe-keeping of patients.