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Duotex calculation AniCura Bielefeld

This calculation is made by Michaela Klöckener, AniCura Bielefeld Germany, and it compares 10 months use of Duotex cleaning products with 10 months use of conventional cleaning products and detergents.

Summary

- ✓ Pay-off time: less than a year
- ✓ Volume of chemical savings: 120 liters of detergent and 50 kg of disinfectant
- ✓ Operating costs decreased by 30-90% depending on which parameters are calculated

10 months of conventional cleaning with detergents

Daily floor cleaning with cleaning detergent

- Total consumption 12 x 10 liters
- Cost: 620 €

Daily disinfection of floors with surface disinfectant

- Total consumption 12 x 5 kg
- Cost: 1 200 €

Total chemical cost: 1820 €. Cost per month: 182 €

Costs for previous cleaning materials (mops, cloths, mop handles, paper wipe rolls etc.) was not possible to obtain.

10 months of cleaning with Duotex cleaning concept

No use of cleaning detergent

- Cost: 0 €

Weekly disinfection of floors with surface disinfectant

- Total consumption 2 x 5 kg
- Cost: 200 €

- One purchase of Duotex mops + mop handles 1300 €
- Monthly purchases of Duotex disposable Micro easy one cloths 50 €/month
- Cost: 1800 €

Total material and chemical cost: 2000 €. Cost per month: 200 €.

Analysis

The analysis is made by Michaela Klöckener AniCura Bielefeld and Madelene Wijk, Group Infection Prevention & Control Manager.

Reduced costs due to reduced use of chemicals

After 10 months use of Duotex cleaning system the clinic saved 1620 € (a 90 % cost reduction) in chemical costs. The clinic also spared the environment, since a large amount of chemicals are no longer released into the drain, see Table 1.

Table 1. Savings AniCura Bielefeld

Chemicals	Volume	Euro (€)
Detergent	120 liters	620
Disinfectant	50 kg	1000

Current monthly operating costs cleaning with Duotex, including the disposable cloths (50 €/month) and chemical use (20 € /month) = 70 €.

Previous monthly operating costs only chemicals included (no paper wipe rolls or cloths) = 182 €.

In this comparison AniCura Bielefeld has **decrease their monthly costs by around 60%!**

Operating costs

How often you need to replace the mops depends of course on the frequency of use. Duotex guarantees 100% cleaning capacity up to 500 washing cycles, so if you are washing the textiles daily, as AniCura Bielefeld does, a replacement has to be done as earliest after 2 years.

Table 2. Current operating cleaning costs per month for AniCura Bielefeld

Reusable mops & cloths	Disposable cloths	Chemicals	Total cost
54 €* 1300 € / 2 years = 650 €/year 650 € / 12 months = 54 €/month	50 €	20 €	124 € 54+50+20 =124 €/month

*This sum includes mop handles which lasts much longer than 2 years if handled properly, so the monthly cost over time therefore expected to fall under 50 €.

Costs for the previous cleaning materials and at what frequency they have been replaced was not possible to obtain. So, unfortunately a comparison included both cleaning material and chemicals could not be done. But even if the previous cleaning material are not included in this calculation, the operating cleaning costs for the clinic decreased by around 30%, from 180 € (only chemicals included) to around 124 €/month (both material and chemicals included). If only counting on chemical costs the operating cleaning costs decreased by 90 %!

Pay-off time

The previous cleaning method costed 182 € per month only in chemical use (no material included). When the clinic switched to Duotex, they bought reusable material for 1300 € (standalone investment), and the operating costs dramatically decreased to 20 €/month (to 70 € if disposable cloths included).

Saving: $182\text{ €} - 70\text{ €} = 112\text{ €/month}$ or $182\text{ €} - 20\text{ €} = 162\text{ €/month}$

Pay-off time: $1300\text{ €} / 112\text{ €} = 11,6\text{ months}$ or $1300\text{ €} - 162\text{ €} = 8\text{ months}$

The pay-off time was for sure less than a year and probably even lower considering that no cleaning material has been included in the previous conventional cleaning method.