

Reducing medicine waste at the OR

Pilot test: spread over four days, it was measured how many ml of medication remained at a total of 16 ORs in the LUMC. This data was converted to a year.

Discarded per year @ LUMC OR

479.908 ml
of medicine residue

=

22.011
syringes of 50 ml

=

€70.708



78%
from the total waste
is due to:

	% of total discarded medication
1. Propofol	22%
2. Sufentanil	12%
3. Remifentanil	12%
4. Noradrenaline	10%
5. Rocuronium	10%
6. Fenylefrine	9%
7. Efedrine	4%



measured in the stock of the ORC

108 expired medicines
of which 45 were prefilled syringes

% of medicine remaining
in syringe (median)

1. Noradrenaline	85%	
2. Efedrine	80%	
Fenylefrine		
3. Propofol	60%	
Rocuronium		
4. Sufentanil	55%	
5. Remifentanil	45%	

DrugWise

a sustainable approach to reduce medicine waste at the OR

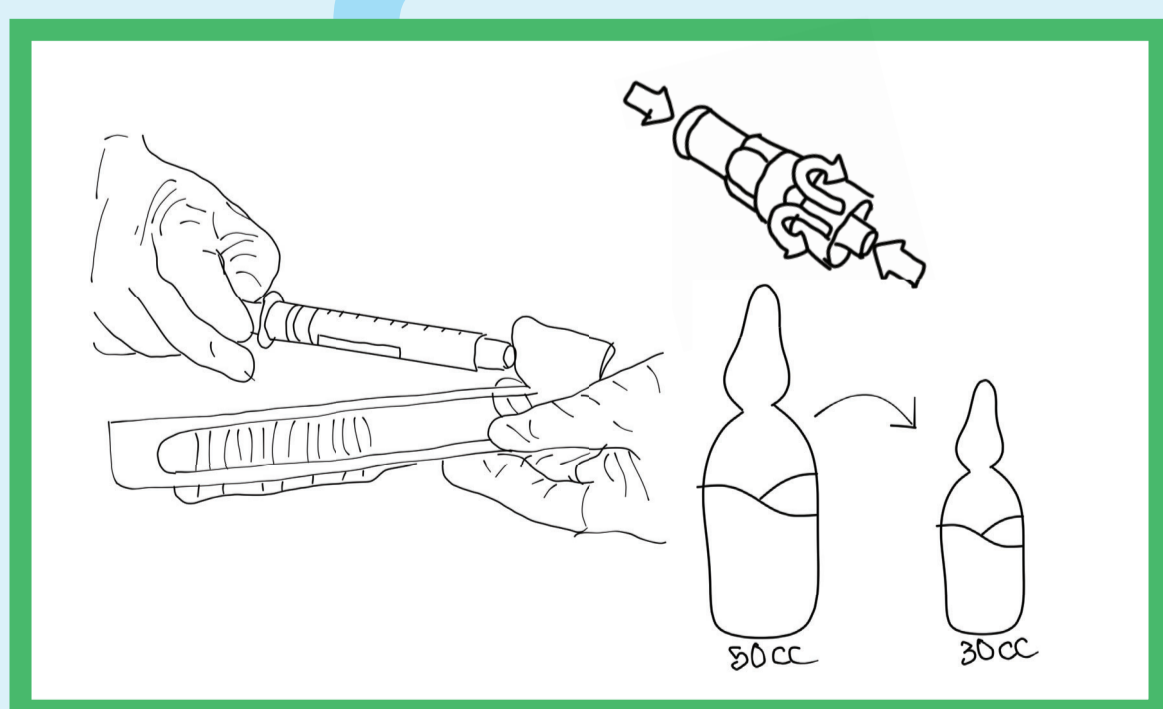


Create awareness
by sharing the data of the waste

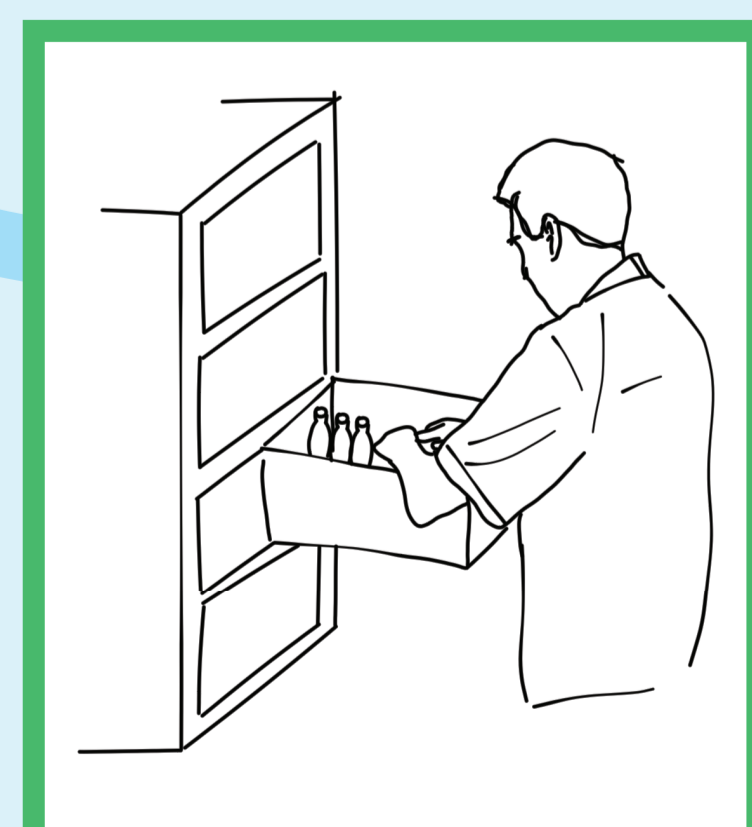


Prescribe appropriately

- rethink anesthesia preparation list
- use tools for proper dosis calculation

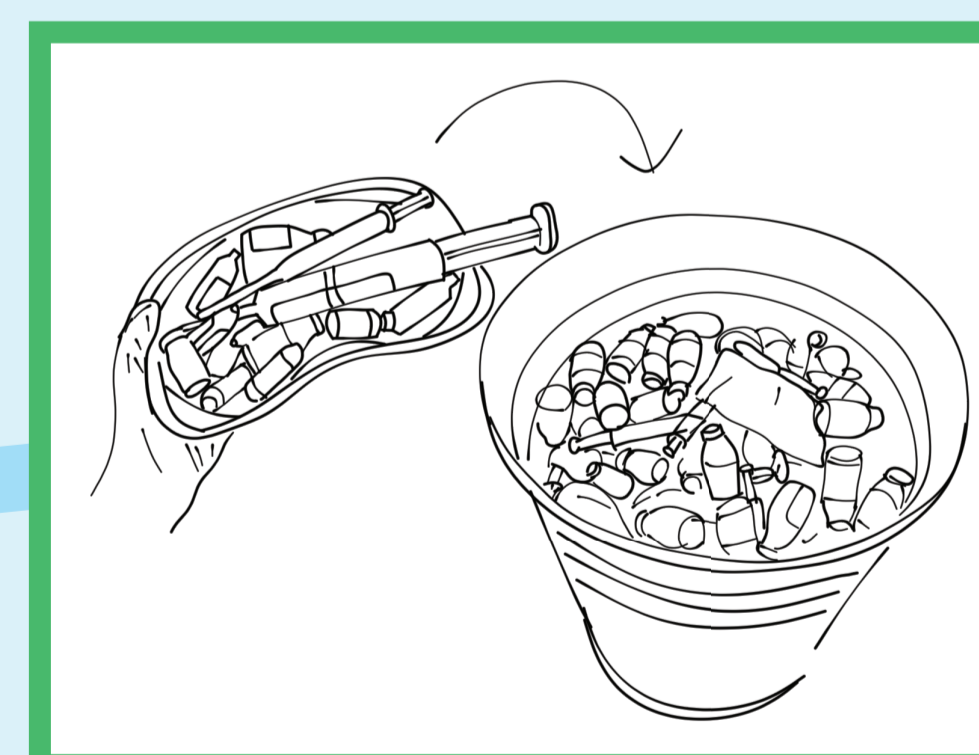


Investigate alternatives
for example using:
a check valve, prefilled syringes,
smaller vials, spikes and rethinking
the concentration of medicines.



Stock management

- keep track of expired medications
- FIFO principle



Proper disposal

- dispose medicines in the right bin
- create a separate waste stream for medicines

**LESS
WASTE**