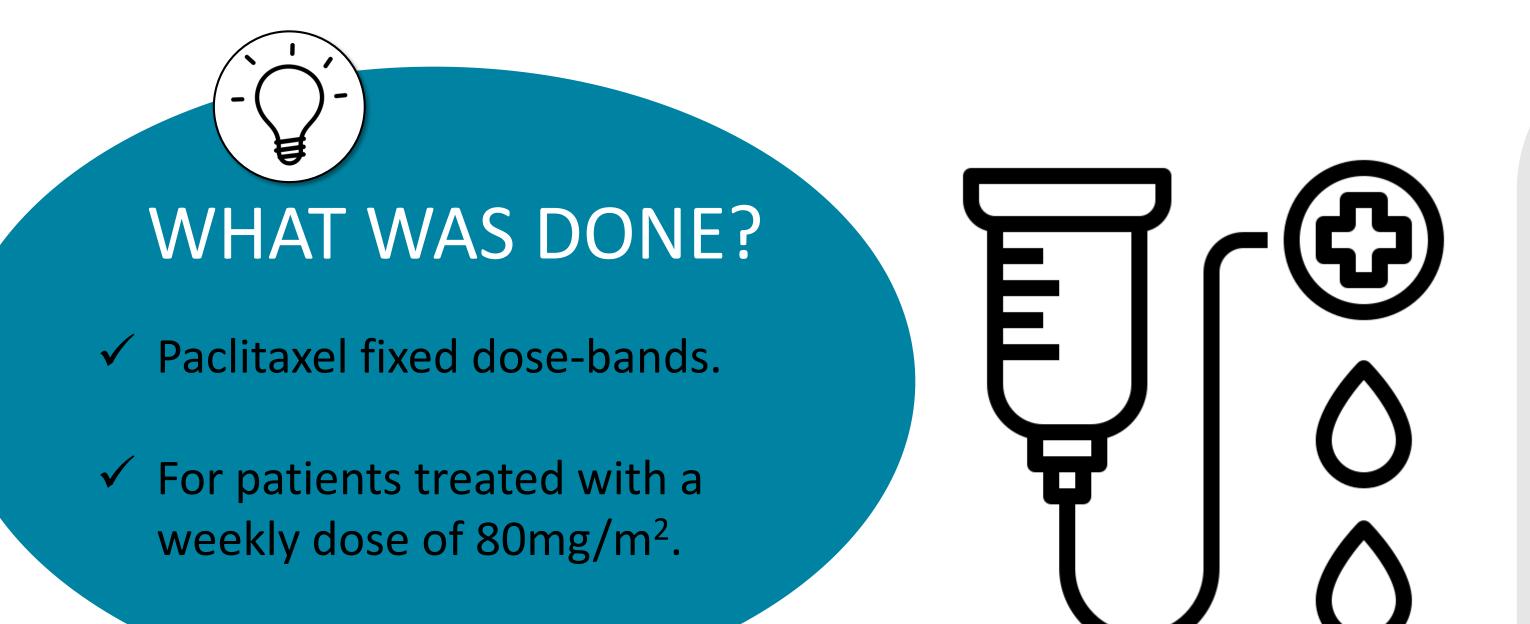
# Sustainability initiative: Dose banding of paclitaxel to minimise drug waste

# P. Nygård<sup>1</sup>, H-B. Fiebrich-Westra<sup>2</sup>, E.J. Smolders<sup>1</sup>

1 Department of Pharmacy, Isala, Zwolle, The Netherlands

2 Department of Oncology, Isala, Zwolle, The Netherlands









# WHY WAS IT DONE?

- ✓ Reduce paclitaxel waste caused by cancellation of administrations.
- ✓ Increase interchangeability of already reconstituted paclitaxel bags (shelf-life 7 days after reconstituation).

- ✓ Paclitaxel dose-bands were created.
- ✓ Implementation as dose-rounding rules (Hix 6.2, ChipSoft BV).
- $\checkmark$  Maximum deviation of the prescribed dose: 10%.
- ✓ Dosage  $\leq$ 72 mg or >200 mg were rounded as normal.

- ✓ Saving waste of drugs and material.
- ✓ Reducing costs of drug, material and manpower.

>168 ≤184	174	2.2
>184 ≤200	192	2.4



## WHAT HAS BEEN ACHIEVED?

<ul> <li>✓ Implementation on 01-04-</li> </ul>		2021	2022
2022.	# infusions	1829	1589
<ul> <li>Results from:01-05-2022</li> <li>until 31-12-2022.</li> </ul>	# of different dosages	30	16
<ul> <li>Compared with: 01-05-2021</li> <li>until 31-12-2021.</li> </ul>	Top 3 dosages	144 mg (16%) 162 mg (11%) 138 mg (10%)	144 mg (33%) 162 mg (22%) 126 mg (22%)
<ul> <li>✓ Improved interchangeability of prepared dosages.</li> <li>✓ Less waste:: 3.7 fold increase</li> </ul>	Reused infusions/ discarded infusions	12/67 (18%)	27/41 (66%)
of reuse.	Waste of total prepared infusions	3%	0.9%



# WHAT'S NEXT?

- ✓ Pharmacists adapting the rounding rules, decreasing the variation in doses and thus waste.
- ✓ Dose-bands were implemented together with other waste/cost reducing changes.
- Monitoring and evaluation together with prescribers.
- ✓ Aiming to implement other dose-bands:

✓ Paclitaxel dosages 175mg/m<sup>2</sup> ✓ Chemotherapeutic drugs (e.g. oxaliplatin, docetaxel, cyclophosphamide).

### **Contact details** Elise J. Smolders, PharmD, PhD e.j.smolders@isala.nl

Elise Smolders has no conflicts of interest

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