

## Smartflow Dilution Recommendation

Many medications need to be diluted either to a standard preassigned dilution or a custom one so there are two areas I think this should be added.

Firstly if you had an optional box in the settings/parameters area when you first created a medication the doctor could preassign a concentration to dilute the medication to in this set up area. This would have to be optional but if they entered it here it should carry through onto the next area (screenshot 2).

The would need to have the option to leave it blank however because many medications do not need to be diluted or the dilution concentration is variable.

The screenshot shows a modal window titled "Edit 375 Unasyn parameter". The form contains the following fields and controls:

- ezyVet Name:** A dropdown menu with "Unasyn 375mg/mL Injection (Per \* ▾" selected.
- Picker type:** A dropdown menu with "Initials" selected.
- Name\*:** A text input field containing "375 Unasyn".
- Default Section\*:** A dropdown menu with "Medication" selected.
- Concentration\*:** A field with three input boxes: "375", "mg \* ▾", and "ml \* ▾".
- Diluted Concentration (optional):** A field with three input boxes: "30", "mg", and "ml". This field is highlighted with a red box.
- ezyVet Events:** A toggle switch with "ON" and "OFF" buttons.
- Buttons:** "Cancel" (grey) and "Update" (blue) buttons at the bottom.

The second area that would need the addition would be when signing a patient up for that medication on the treatment sheet itself. The pop up box to put the dosage in should also have this diluted concentration box. If in the settings the medication was set up with a preassigned concentration like in the first screenshot then this concentration should auto fill into this field. (see e.g. below with 30mg/ml filling in).

If the field was left blank in the parameters set up this should be blank and allow someone to enter a dilution concentration for themselves. The drop down options are the same as for concentration (mg, mcg, ml, etc).

If they DO NOT enter a dilution concentration then the total dose in mg and ml should be based off the concentration at the top of the screen. (375mg/ml) as it is currently. If they DO enter a

dilution concentration like in this example then the dosage and total ml should be calculated based on the diluted concentration (30mg/ml in this example).

This would mean that the total mg is the same in both examples but the volume of ml is different depending on whether the medication is undiluted or diluted.

**DELETE** *375 Unasyn*

Start at (o'clock): 15:00

Continue every (hours): 8 hrs.

Instructions: Enter instructions to display during treatment (press SHIFT+ENTER to start a new line)

Concentration: 375 mg / ml

Diluted Concentration (optional): 30 mg / ml

CRI: NO YES

Route: IV

Dosage: Dosage mg / kg

Total dose: Total dose mg, Total volume ml

Show on flowsheet: Dosage **Total (mg)** Total (ml)

Cancel Done