

Syringe Flushing Challenges



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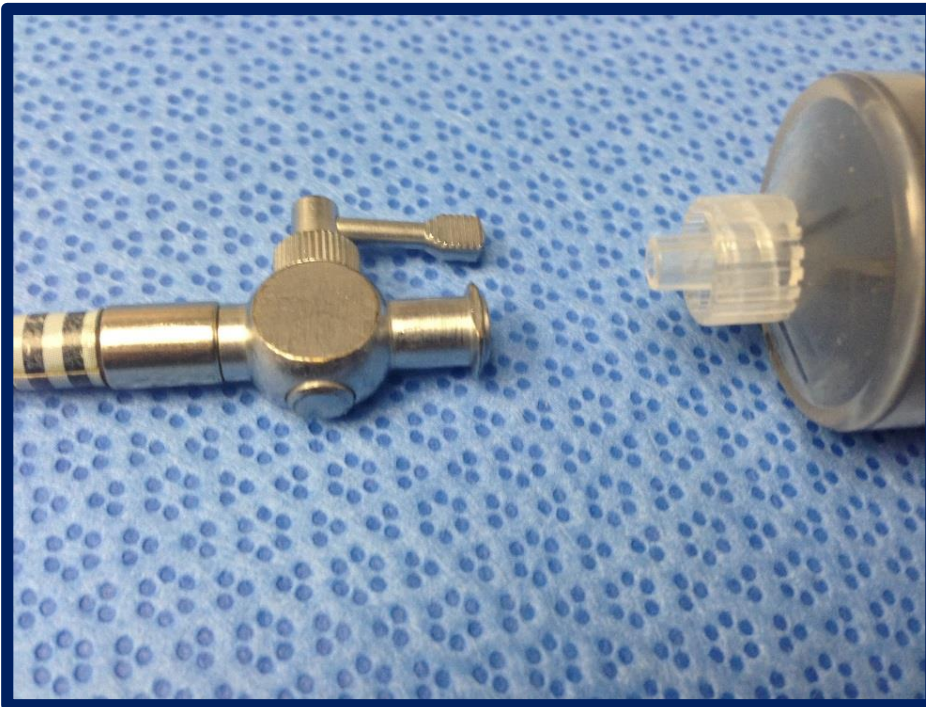
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Challenges

1. Constantly plunging, connecting, unloading, disconnecting syringe.
2. Syringe does not fit to all devices
3. Repetitive motion injuries
4. 2 handed process, one device at a time.
5. Standard copious flushing
6. Inability to monitor pressure



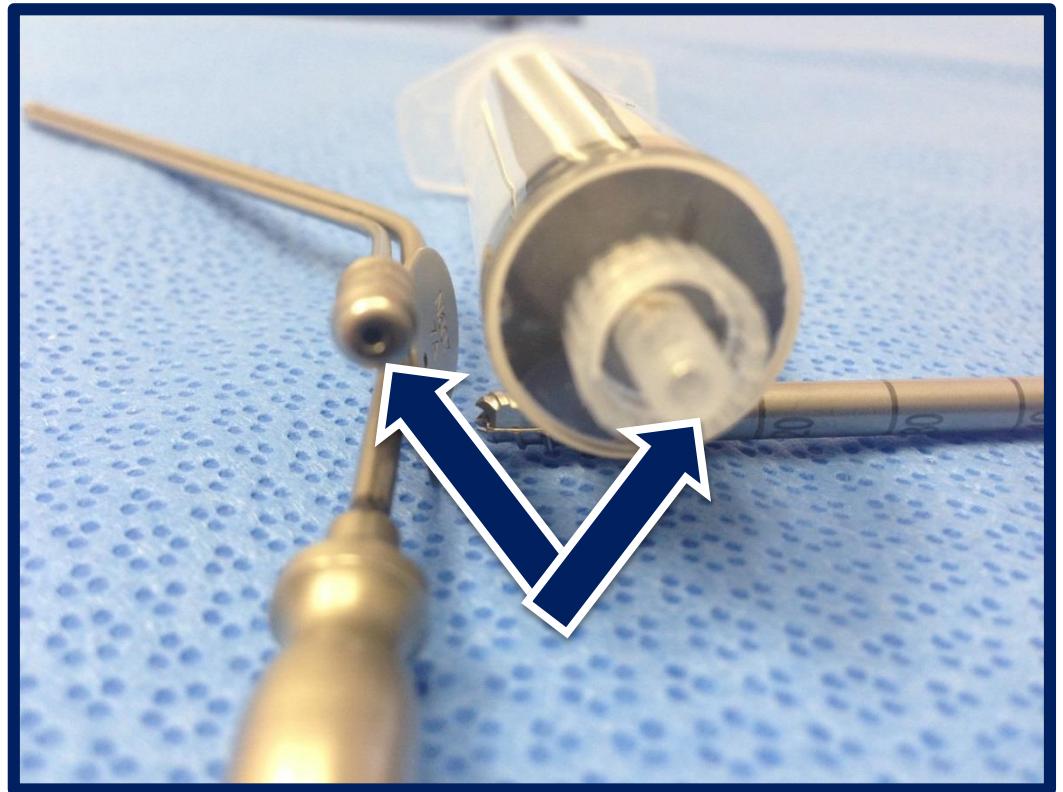
Devices



**Device must have
luer fitting for
effective adaption**

**No luer on this
reusable device,
cannot connect
syringe to device**

**Not all devices
have luer fitting**





**There are thousands of 1ml- 4ml
channeled devices that a syringe will
not adapt to**



**Syringe will not
snuggly fit
channeled
devices greater
than 4.05 mm
openings**

Formula

Formula For Calculating Pressure Generated by a syringe

Pressure = Force/ Area

Equation for PSI is Pressure= Force/Area ($A = \pi r^2$)

Pressure: The PSI generated by solution dispensed

Force: LBS. of force applied to plunger rod

Area: Cross section areas of the barrel (calculated $A = \pi r^2$)

Syringe Pressure Comparison Tables

	BD Standard Disposable Syringes						
	1mL	3mL	5mL	10mL	20ml	30ml	60ml
Inside Diameter	.185	.340	.472	.568	0.753	0.854	1.052
Cross Sectional Area	.0269	.0908	.1750	.2534	0.3765	0.427	0.526
PSI Generated Per 1 lb. Force on Plunger Rod	37.17	11.01	5.71	3.95	0.8459	0.7458	0.6055
PSI Generated Per 10 lb. Force on Plunger Rod	371.7	110.1	57.1	39.5	8.4587	7.4583	6.0546
Plunger Rod Force Required to Generate 40 lb. of PSI	1.35	3.6	8.76	10.1	?	?	?

The Solution is...

The FlexiPump Independent Flushing System

- ❑ Quickly flush 6 devices at once
- ❑ Copiously flush devices 90% faster than a syringe
- ❑ With one connection you can flush devices from 1ml- 5.5ml (syringe can only do 4ml device openings)
- ❑ Pure Station can flush 500 CC a minute with no hands
- ❑ SEE OUR DEMO
- ❑ <http://www.youtube.com/watch?v=r4zRCrZ02fc&feature=youtu.be&hd=1>

