

urinary system Cheat Sheet

by Roxanne (Reuben) via cheatography.com/69645/cs/17832/

Organs of urinary elimination				
Kidneys	removes wastes from the blood in form of urine			
Ureters	Transports urine from the kidneys to the bladder			
Bladder	reservoir for urine until the urge to urinate develops			
Urethra	Urine travells			

Differences: Female urethra is shorter than male's so more prone to **UTIs**

Factors effecting urination					
Disease conditions	neurogenic bladder, renal failure, etc				
Medications and medicla procedures	diuretics, fluids via IV, antidiuretics, anticholinergics,				
Socioeconomic factors	Nervous bladder, SRO Hotels, no water, etc				
Psychological factors					
Fluid balance	Nocturia, polyuria, oliguria, anuria, diuresis, fever				

Changes with aging

Prostate enlargement: starst at 40's to 80's. Urinary frequency and possible retention.

Child bearing/hormonal changes/menopause: causes urinary difficulty such as decreased muscle tone, urinary urgency and stress incontinence.

Elderly tend to drink less.

Urinary incontinence is not a normal part of aging

Decreased estrogen during & after menopause. increased risk of UTIs because urethral mucosa becomes thinner.

Common Urinary Problems					
Urinary retension	bladder is unable to partially or completely empty.	socioeconomic, neurogenic bladder			
Urinary tract infections (UTIs)	nosocomial, bacteriuria, urosepsis	hygiene, holding in, dehydration			
Urinary incont- inence	loss of control over voiding				

lots of patients have colonozed bladders, but not considered a UTI.

Containment Devices					
absorbent day pads	Briefs	Condom Catheters			
Foley catheters		SPC Subra Pubic Catherizations			
Skin care is important					

Catheterizations

Sterilization is extremely important to not introduce pathogens into the urethra.

Type A: straight. single us only

Type B: Indwelling Foley. Has a little balloon filled with sterile water or saline. Has a split section for a syringe and urinary elimination.

Potential sites for infection

insertion point where the tub attaches to the catheter where the tube attaches to bag when too close to the ground bag too full drainage point

SPC caths				
CARE - SPC	CARE Urinary cath			
inspect stoma daily	handwashing			
cleanse stoma	perineal care daily and prn			
roll cath between fingers daily	urine drains freely into bag			
cath bad below bladder,/ not touching floor	bag not above bladder/ not close to ground			
cath secure, prevent pulling on skin.	avoid tube kink			
drain when 1/2 - 2/3 full.	maintain aspepsis when emptying bag			
change spic, bag, tubing per facility/physician orders	wipe port with alcohol wipes prior to reconnecting when converting to alternate system.			
document & care plan.				
- no longer take samples from cath bag, most residential patients will				

- be colonized.
- mid-stream is how to take a sample.

policy states that cath has to be removed and sample taken from new cath. do we need a CNS for this patient?



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Normal characteristics of urin

Volume: >30mls per hour (intke/output) | 1200-1500mLs per 24hrs. Void 4/5x/day

Sterile colour: pale straw to amber, depends clarity: transparent on concentration

pH Specific gravity 1.010-2.025 No glucose,
4.5- ketones or blood
8.0

odour: mild ammonia in nature

Colors caused by medications

Dark yellow: vit b12 Orange: sulphas; pyridium; warfarin pink/red: ex-lax; dilantin green/blue: amitriptyline; methylene blue

brown/black: iron;levodopa; nitrofurantoin; metronidazole

Specimen collection

determine bacterial growth.

urinalysis (u/a): ph, presence of protein, glucose, ketones, blood, specific gravity midstream, sterile colelction cup

.

Urine culture: may need 72hrs to clean coided or

collection cup.

midstream, sterile

time collections- 12/24hrs: no urine or clean receptacle, stored toilet tissue contamination until collection finished.

Asssiting urination

promote bladder emptying and relaxation

bladder re-training, bladder diary, voiding regular intervals, 5-7x/day strengthening pelciv floor muscles (kegels)

precent infection, avoid indwelling caths.

encourage activity/mobolity -> reduces pressur ulcers and possible need for indwelling cath.

drug therapy

Kegels

squeeze pelvic muscles slowly increasing intensity over 8 seconds hold for 8 sec

relax slowly over 8 sec

s

bladder scanner: see what kind of catheter is right for the patient. helps determine for full bladder and post-void residuals. PVR (post void residual).

Catheter assessment

asses meatus for swelling, redness, or discharge

patient, bed soaker pad, fram attached

no kinks

approx vol in drainage bag, bag not touching floor.

to drain bag place cylinder on floor and drain into without touching the cylinder.

assess urin color, smell, and texture when draining, close bag properly.

note volume. dispose urine according to policy.

condom cath

condom

externally, less invasive,

not too tight, not too loose

check id band, allergies? latex.

get supplies ready

wash up client. pericare.

cleanest to dirtiest.



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