

LTC Docs are  
from Mars, ER  
Docs are from  
Venus

Dr. Vu Kiet Tran, MD, MHSc, MBA,  
CHE, ICD.D

University of Toronto



# Faculty/Presenter Disclosure

- **Faculty: Tran, Vu Kiet**
- **Relationships with financial sponsors:**
  - **Speakers Bureau/Honoraria:** OCFP, FMS
  - **Other:** President, Canadian Physicians' Pension Plan

# Disclosure of Financial Support

- This program has not received financial support from anyone
- This program has not received in-kind support from anyone
- **Potential for conflict(s) of interest:**
  - Tran, Vu kiet has not received **payment** from **any organization for this program**
  - No product will be discussed in this program

# Mitigating Potential Bias

- No bias in this presentation











# THE SOCIAL SAFETY NET:





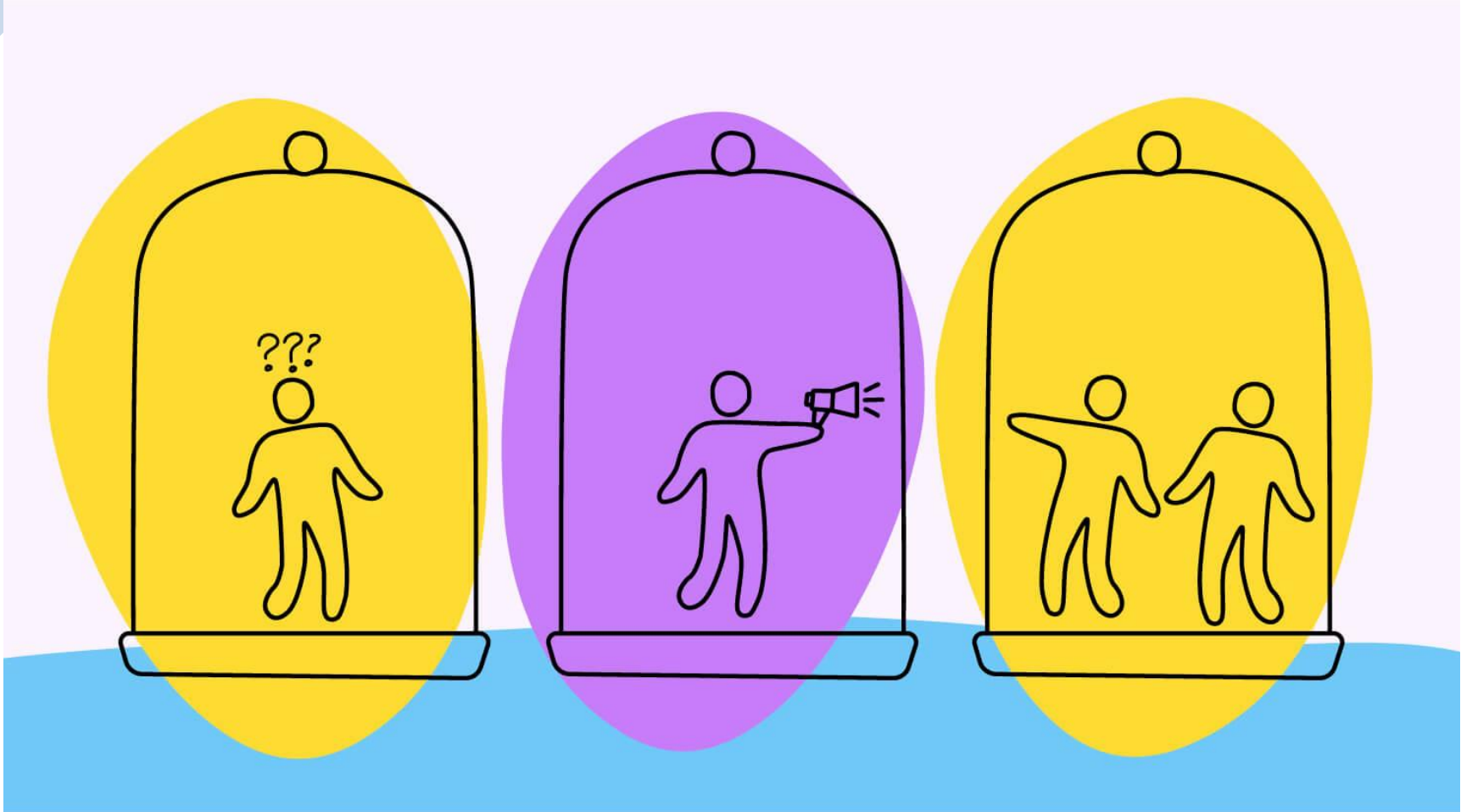
Emergency

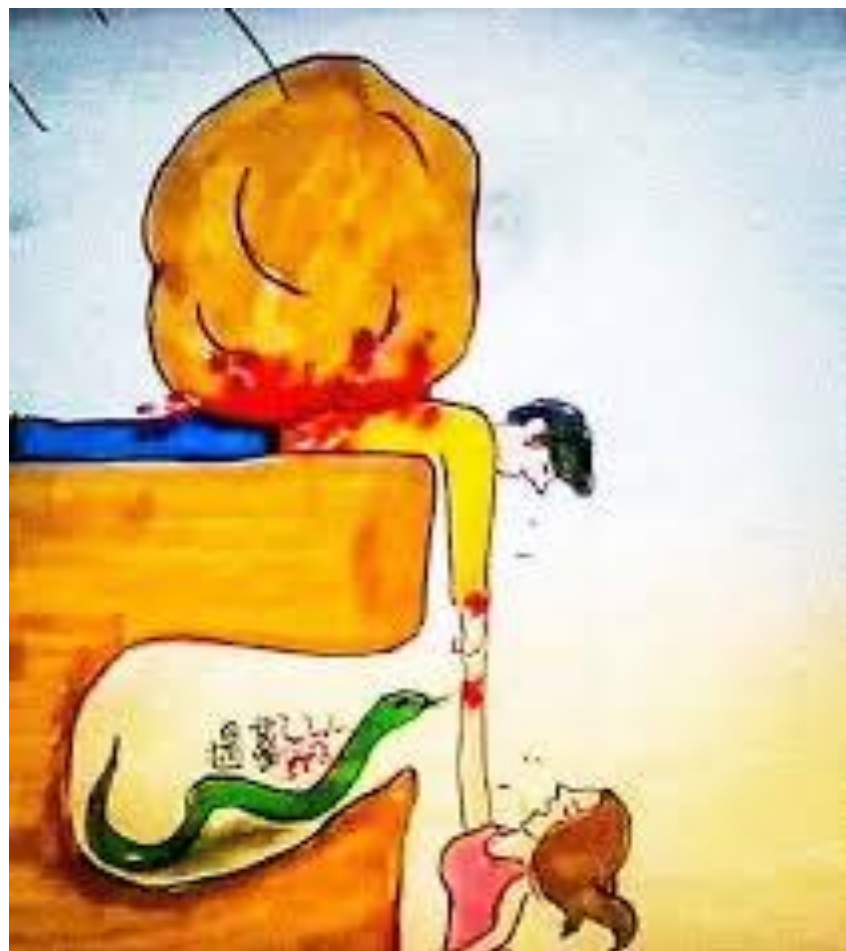
11 West Coast

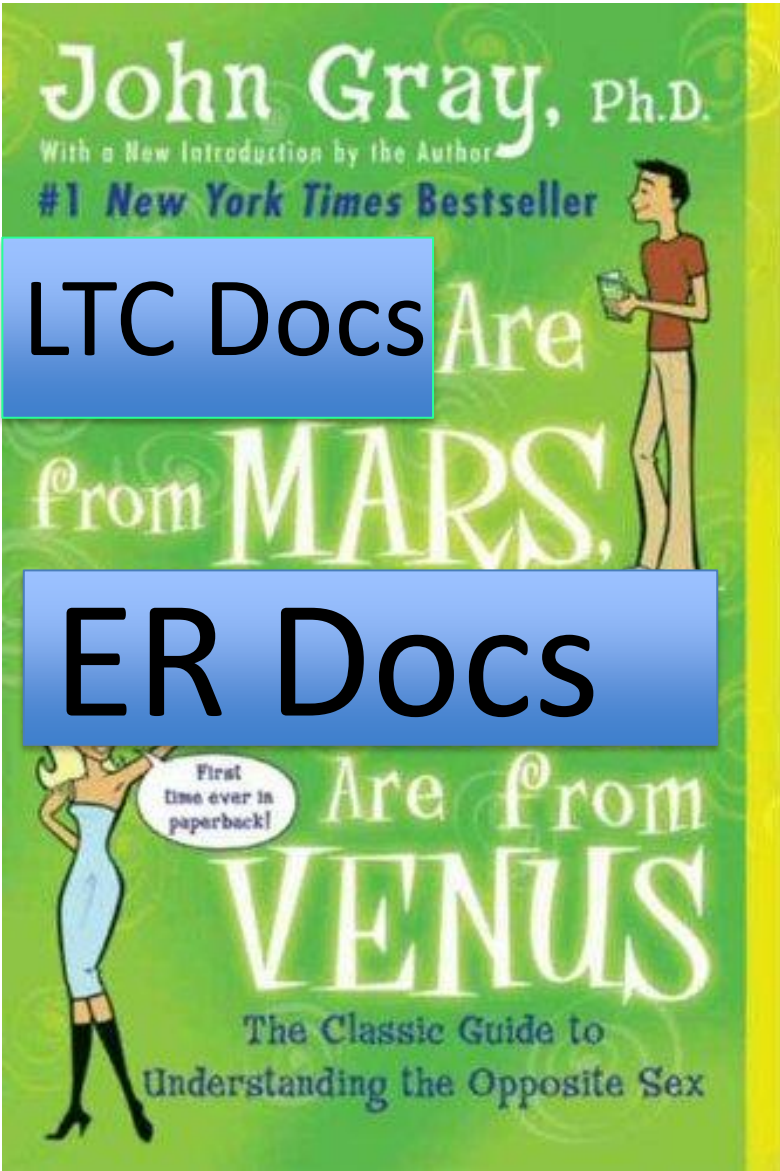












LTC Docs

ER Docs





**YOU - THE ER DOCTOR**





847553 (Rev. 10/19) page 1 of 1

Date: \_\_\_\_\_  
 Discharge Diagnosis: UTI + pneumonia.  
 Allergies (new or change): \_\_\_\_\_  
 Goal of Care: \_\_\_\_\_

Physician Recommendations:  
COVID swab @  
 urine c+s sent.  
C. Chan  
CT head nil acute  
urta: (+) leuko  
CXR: bil. infiltrates  
Rx: levofloxacin.  
 Physician (Print Name) \_\_\_\_\_ Physician Signature [Signature]

Follow-up Appointments:

Date & Time	Service	Instructions	Contact Number
<u>/</u>	<u>n/a</u>		

Infection Control: Isolation / Special Precautions  
 Yes  No  
 Reason, if yes: COVID swabbed (27-09-20)

Accompanying Documents, Aids & Equipment:  
 Emergency Chart  Most recent diagnostic imaging reports (i.e X-ray, ECG)  
 Physician orders  Most recent lab results  
 Consult notes  Medical device insertion notes  
 Surgical/intervention notes  Other

Personal Belongings:  
 Glasses  
 Walker  
 Cane  
 Hearing Aid  Lt  Rt  
 Dentures  Upper  Lower  
 Other

Equipment and care required after discharge:

Location	Note Attached	Location	Note Attached
<input type="checkbox"/> Dressings <u>/</u>	<input type="checkbox"/>	<input type="checkbox"/> Sutures/Staples <u>/</u>	<input type="checkbox"/>
<input type="checkbox"/> Drains <u>/</u>	<input type="checkbox"/>	<input type="checkbox"/> Wound / Ostomy <u>/</u>	<input type="checkbox"/>
<input type="checkbox"/> Casts/Braces <u>/</u>	<input type="checkbox"/>	<input type="checkbox"/> Central/Peripheral Line <u>/</u>	<input type="checkbox"/>
<input type="checkbox"/> Medical Devices <u>/</u>	<input type="checkbox"/>	<input type="checkbox"/> Other <u>/</u>	<input type="checkbox"/>

Medications:

Record indicating changes (including new prescriptions) attached.  
 Record including medication administration (last dose given) below or attached.

Drug	Dose/Frequency	Date & Time Last Given
<u>Ceftriaxone</u>	<u>1 gram x 1</u>	<u>27-09-20 at 1900</u>
<u>Azithromycin</u>	<u>500 mg x 1</u>	<u>27-09-20 at 2000</u>

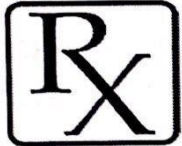
Last Clinical Assessment: Temp 36.1 Blood Pressure 161/99 Pulse 98 Blood Sugar -  
 Oxygen Saturation: 98% on Respiratory Rate 18 Pain Level (1-10) - Last Eaten or Drank -

Diet / Texture \_\_\_\_\_  Note Attached Mobility \_\_\_\_\_  Note Attached

<b>Bowels:</b> <input type="checkbox"/> Continent <input type="checkbox"/> Incontinent Last BM _____	<b>Bladder:</b> <input type="checkbox"/> Continent <input type="checkbox"/> Incontinent Catheter _____ Size _____ Date last changed _____	<b>Cognitive Function:</b> <input type="checkbox"/> Alert <input checked="" type="checkbox"/> Disoriented <input type="checkbox"/> Other _____	<b>Responsive Behaviour:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Note Attached
---	---	---	--

Nurse (Print Name) Arcadia Nurse Signature [Signature] Extension Number 6569

Date: 27/09/20  
DD/MM/YY



Common ED LU Codes	
Advair/Symbicort	330 <input type="checkbox"/>
Aggrenox	349 <input type="checkbox"/>
Apixiban (Eliquis) AFib	448 <input type="checkbox"/>
Ciprofloxacin	336 <input type="checkbox"/>
Dalteparin (Fragmin)	186 <input type="checkbox"/>
Moxifloxacin/Levofloxacin	339 <input type="checkbox"/>
Dabigatran (Pradaxa)	431 <input type="checkbox"/>
Tamiflu Prevent 371 Treat	372 <input type="checkbox"/>
Famvir/Valtrex 147/159	<input type="checkbox"/>
Rivaroxaban (Xarelto) AFIB	435 <input type="checkbox"/>
Rivaroxaban (Xarelto) DVT and PE	444 <input type="checkbox"/>
PPIs GI Bleed	402 <input type="checkbox"/>
PPIs failed H2 blocker Rx	293 <input type="checkbox"/>
PPIs prevent NSAID ulcer	297 <input type="checkbox"/>

Levofloxacin. 750mg po OD.

M: 7 days

# “Cipro-deficiency” dipstick





# Asymptomatic bacteriuria

---


- Very common in the older patient
- Institutionalized residents more than community dwellers
- ***Abnormal urine does not always indicate UTI as the cause of their symptom(s)***



A correct diagnosis is  
three-fourths the remedy.

Mahatma Gandhi

“ quote fancy



# Who should be treated?

---

- Who should ***NOT*** be treated?
  - Diabetic persons
  - Elderly individuals
  - Patients with indwelling catheters



# Pathway for Asymptomatic bacteriuria

## MINIMUM CRITERIA FOR UTI (MODIFIED LOEB CRITERIA<sup>1,2</sup>)

In a non-catheterized resident:	In a catheterized resident:
<ul style="list-style-type: none"><li>• Acute dysuria <u>or</u> 2 or more of the following:<ul style="list-style-type: none"><li>• fever [<math>&gt; 37.9^{\circ}\text{C}</math> (<math>100^{\circ}\text{F}</math>) or a <math>1.5^{\circ}\text{C}</math> (<math>2.4^{\circ}\text{F}</math>) increase above baseline on at least two occasions over the last 12 hours]</li><li>• new or worsening urgency</li><li>• frequency</li><li>• suprapubic pain</li><li>• gross hematuria</li><li>• flank pain</li><li>• urinary incontinence</li></ul></li></ul>	<ul style="list-style-type: none"><li>• Any one of the following after alternate explanations have been excluded:<ul style="list-style-type: none"><li>• fever [<math>&gt; 37.9^{\circ}\text{C}</math> (<math>100^{\circ}\text{F}</math>) or a <math>1.5^{\circ}\text{C}</math> (<math>2.4^{\circ}\text{F}</math>) increase above baseline on at least two occasions over the last 12 hours]</li><li>• flank pain</li><li>• shaking chills</li><li>• new onset delirium</li></ul></li></ul>

<sup>1</sup> Note that these are clinical criteria validated for diagnosis for UTI and differ from criteria that are used for surveillance.

<sup>2</sup> Note that confusion alone is not symptom of UTI in non-catheterized resident.

Choosing Wisely Canada



# What is ***NOT*** an UTI

---

- These elements on their own are NOT diagnostic of UTI:
  - Worsening functional status
  - Worsening mental status (increased confusion, delirium, agitation)
  - Cloudy urine
  - Smelly urine
  - Change in urine color
  - Falls
  - Dehydration



# Treatment of Uncomplicated UTI

---

- Uncomplicated UTI
  - Beta-lactam antibiotics
    - Amoxicillin 500mg tid for 3-7 days
    - Amoxicillin, Amoxicillin-clavulanate 500mg bid for 3-7 days
  - Nitrofurantoin (but avoid if CrCl < 35) 100mg bid for 5-7 days
  - Trimethoprim-sulfamethoxazole (TMP-SMX) DS bid for 3 days
  - Fosfomycin 3g po od x 1 single dose



# Treatment of Uncomplicated UTI

---

- Uncomplicated UTI
  - Cephalexine 500mg tid for 5-7 days
  - Cefadroxil 1g once daily for 5-7 days
  - Cefuroxime 5-7 days
  - Cefaclor 500mg tid for 5-7 days
  - Cefixime 400mg od or 200mg bid x 1 day



# Treatment of Complicated UTI

---

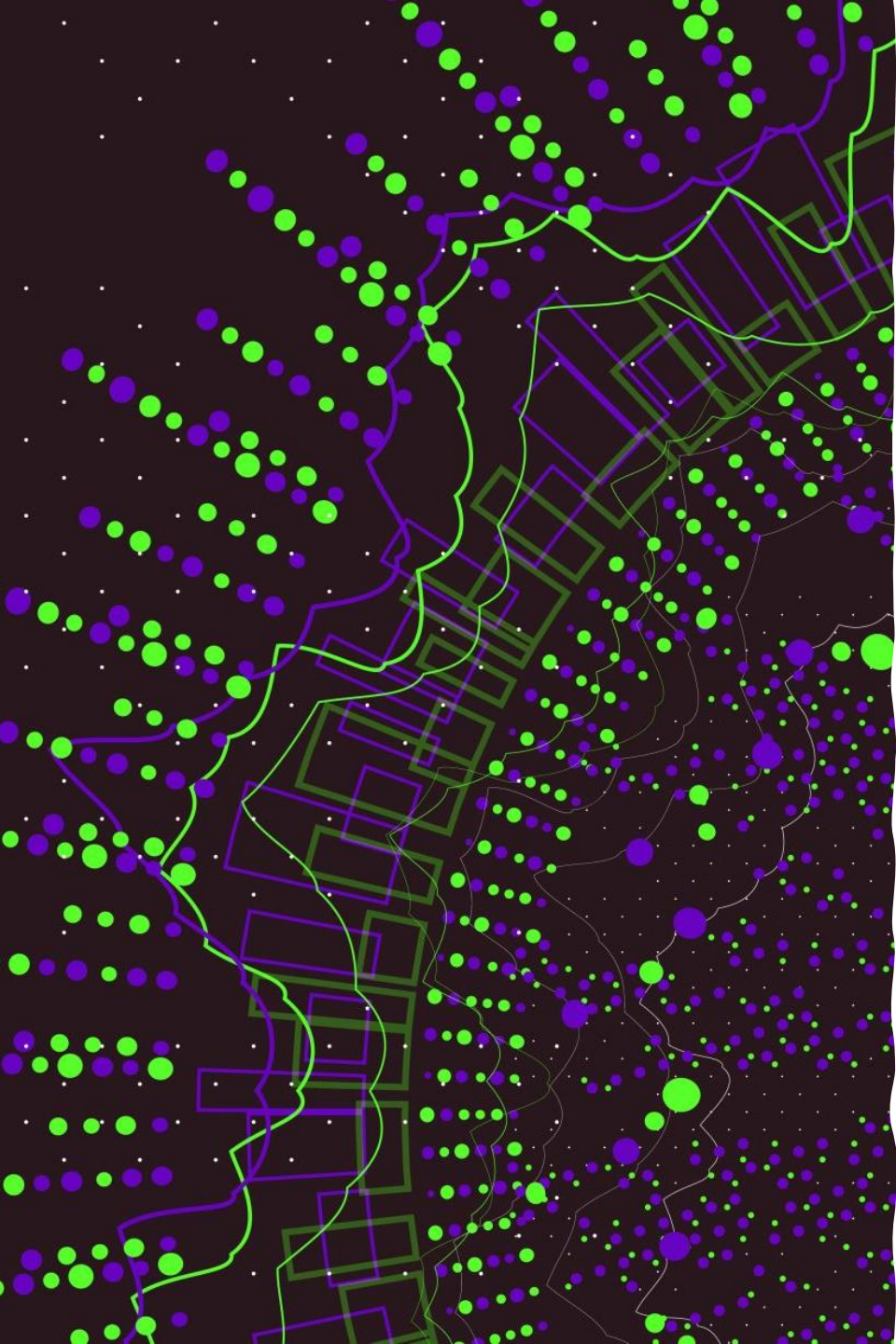
- Complicated UTI
  - TMP-SMX DS 1 tab bid for 7-14 days
  - Amoxicillin-clavulanate 875mg bid for 10-14 days
  - Fluoroquinolones
    - Ciprofloxacin 500mg bid for 7 days
    - Levofloxacin 750mg po once daily for 5 days
    - Moxifloxacin 400mg po once daily for 5 days

# Treatment of uncomplicated Pyelonephritis

---

- Uncomplicated pyelonephritis
  - TMP-SMX DS 1 tab bid for 14 days
  - Amoxicillin-clavulanate 875mg bid for 10-14 days
  - Fluoroquinolones
    - Ciprofloxacin 500mg bid for 7 days





**TMP-SMX CAN  
PRODUCE  
HYPERKALEMIA IN  
PATIENTS WITH  
DECREASED KIDNEY  
FUNCTION WHO  
ARE RECEIVING ACEI  
OR ARB**

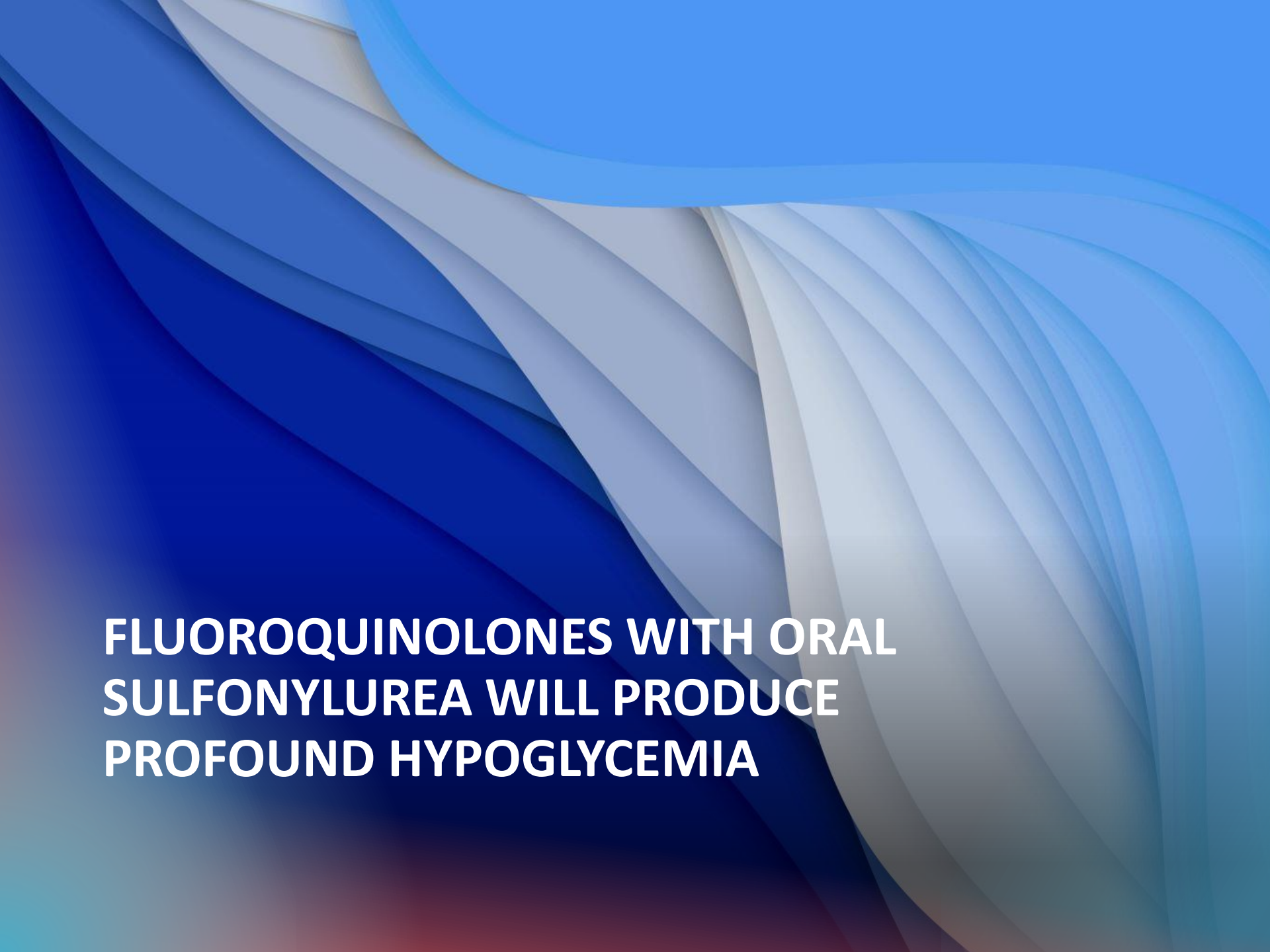
---



**TMP-SMX WITH  
ORAL  
SULFONYLUREA  
WILL PRODUCE  
PROFOUND  
HYPOGLYCEMIA**

---



The background features a series of overlapping, wavy, paper-like layers in various shades of blue and white, creating a sense of depth and movement. The layers are curved and layered, with some appearing to be in front of others, creating a 3D effect. The colors range from deep navy blue to light sky blue and white.

**FLUOROQUINOLONES WITH ORAL  
SULFONYLUREA WILL PRODUCE  
PROFOUND HYPOGLYCEMIA**

# Flouoroquinolones



**Permanent peripheral  
nerve damage (neuropathy  
and CNS) – Blackbox  
warning in 2013**

**Up to 91% of patients**


**Tendinopathy (tendon  
rupture, tendonitis, etc) –  
blackbox warning in 2008**

**Up to 73% of patients**


- 1. Acute psychosis**
- 2. Schizophrenia**
- 3. Hallucinations (Visual, auditory)**
- 4. Fearfulness**

- 1. Dizziness**
- 2. Headaches**
- 3. Confusion**
- 4. Convulsions**
- 5. Tremors**
- 6. Neurologic disorders**





**FDA Drug Safety Communication: FDA advises restricting fluoroquinolone antibiotic use for certain uncomplicated infections; warns about disabling side effects that can occur together**





**IN MAY 2016, FDA RECOMMENDS  
AVOIDANCE OF FLUOROQUINOLONES  
FOR UNCOMPLICATED INFECTIONS**

**ACUTE EXACERBATION OF CHRONIC  
BRONCHITIS**

**URINARY TRACT INFECTIONS**

**ACUTE BACTERIAL SINUSITIS**

---

TEST NAME	RESULT	FLAG	REFERENCE RANGE	UNITS	TEST LOCN
MICROBIOLOGY REPORT					
SOURCE:	URINE				10
COLLECTION DATE:	10-NOV-2020				
COLLECTION TIME:	06:00				
COLONY COUNT:	>100 x E6 CFU/L				
CULTURE STATUS:	FINAL				
CULTURE REPORT:	Urine Culture				
ORGANISM 1:	Klebsiella pneumoniae				
The urinary (not systemic) interpretation for Cefazolin can be used to predict susceptibility to Cephalexin (Keflex) for uncomplicated UTI.					
Susceptibilities:					
ANTIBIOTIC		ORGANISM 1			
TRIMETH-SULFAMETHOXAZOLE		(S)			
GENTAMICIN		(S)			
CEFAZOLIN		(S)			
CIPROFLOXACIN		(S)			
AMPICILLIN		(R)			
CEFTRIAXONE		(S)			
NITROFURANTOIN		(S)			
AMOX CLAVULANIC		(S)			
<p><i>Altern: Cephalexin</i></p> <p><i>Sym: c/o mild dysuria (KWI) urinary sensation, urinary frequency</i></p> <p><i>egfr:</i></p>					
BENNETT, ROSEMARY		FINAL REPORT			1
PND = Pending ~ = Edited Result S = Sensitive I = Intermediate R = Resistant					

*Cipro 250 by possible 47 den*  
*Dr. T. [unclear] den*  
*11/16/20*

CS Scanned with CamScanner

The information in this report is confidential and intended solely for the addressee(s). Access to this report by anyone else is unauthorized. If you are not the intended recipient, any disclosure, copying, distribution or any action taken to omit or alter the information is prohibited. Please contact your local LifeLabs location for assistance and destruction of this material if you are not the intended recipient.

# Public Service Announcement

9:05



♥ Karim Jessa liked



**Jocelyn J. Fitzgerald, MD** @jfit... · 14h ✓

Friendly PSA! Cipro is never 🙈 the first line antibiotic for a UTI! 🧪 It has a black box warning and a lot of community resistance. Macrobid is your move 😁

💬 28

↻ 56

♥ 577



My go to  
options...

Amoxicillin

Cephalexine

Cefixime

Nitrofurantoin

Amoxicillin-clavulanate

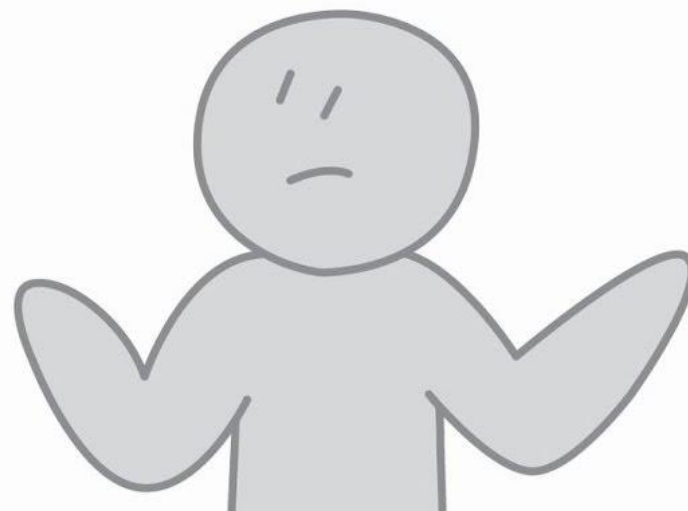
Fosfomicin

TMP-SMX

Ertapenem IM



**“Who can make my  
healthcare decisions  
for me when I  
can’t make them  
for myself?”**





**YOU – THE LTC DOCTOR**



# G-tube re-insertion

---

Emergency and urgency of the insertion?

What medications can be held until a new G-tube is re-inserted?

What medications need to be given immediately?

What alternatives can be given from the e-box?

# Alternatives

---

Substitute  
medications

Hold medications

Hypodermoclysis

Send resident the  
next day early in the  
day (07:00 or  
08:00am)

Collaboration with  
hospital (and  
service) for  
coordinated protocol

# Hours of operation:

Monday	9:00 am – 4:00 pm
Tuesday	9:00 am – 4:00 pm
Wednesday	9:00 am – 4:00 pm
Thursday	9:00 am – 4:00 pm
Friday	9:00 am – 4:00 pm



**Level One – Supportive/Comfort Care**

This includes, but is not limited to, the provision of measures available within the resources of the facility such as:

- Relief of pain;
- Oral fluids;
- Positioning;
- Mouth care;
- Treatment of fever;
- Oxygen administration (if available);
- Suctioning.

Diagnostic interventions and transfer to hospital will not normally be utilized for residents who request this level of Advance Directives. No cardiopulmonary resuscitation is requested.

**Level Two – Limited Therapeutic Care**

Care measures will include all procedures utilized in Supportive/Comfort Care as well as the administration of antibiotics if indicated. Transfer to hospital may be arranged to provide comfort/treatment measures beyond the capability of the facility upon the direction of and at the discretion of the physician. No cardiopulmonary resuscitation is requested.

**Level Three – Transfer to Acute Care Hospital**

If symptoms indicate, the resident would be transferred to an acute care hospital for treatment. Assessment would be made in the acute care hospital emergency department and a decision made whether to admit the resident or return him/her to the Extendicare facility. No cardiopulmonary resuscitation is requested and no admission to an acute care intensive care unit.

**Level Four – Transfer to Acute Care with CPR**

Transfer to an acute care hospital will be arranged immediately. Cardiopulmonary resuscitation (CPR) will be provided by qualified staff, if available, and by ambulance personnel.

Substitute Decision Maker: \_\_\_\_\_

Print Name

\_\_\_\_\_  
Resident/Substitute Decision Maker

\_\_\_\_\_  
Date

\_\_\_\_\_  
Physician Signature

\_\_\_\_\_  
Date



# Other missing information

---

- Transfer to hospital without notifying the family/POA
- No clear indication who the SDM is
- No clinical notes about progression of the acute presentation
- No documentation of examination
  - The sending RN is often off shift and gone home. Vital signs from a month ago
- Poor documentation of baseline function
- Advanced directives not up-to-date



# BLOOD PRESSURE

— **DANGER**

— **GET HELP**

— **ELEVATED**

— **NORMAL**



# Definition

- Hypertensive Emergency (HE)
  - Sudden elevation in systolic BP and/or Diastolic BP that is associated with acute end-organ damage
    - Cardiovascular
    - Cerebrovascular
    - Renal
- Hypertensive urgency (HU)
  - Sudden elevation in systolic BP and/or Diastolic BP that is *NOT* associated with acute end-organ damage

# Hypertensive Emergencies

**TABLE 1. Hypertensive emergencies**

---

Hypertensive encephalopathy

Acute aortic dissection

Acute myocardial infarction

Acute coronary syndrome

Pulmonary edema with respiratory failure

Severe pre-eclampsia, HELLP syndrome, eclampsia

Acute renal failure

Microangiopathic hemolytic anemia

---

HELLP, Hemolysis, elevated liver enzymes, low platelets.



# Initial Dx evaluation

- Tests
  - Non contributory most of the time
  - Can include
    - CBC
    - BUN
    - Electrolytes
    - Serum Creatinine
    - Urinalysis and sediment examination
  - ECG and Chest XR changed diagnostic or therapeutic decisions in only 2 out 116 patients in one study
- It is not necessary to perform any additional tests in this type of patients if they show no symptoms suggestive of end-organ damage



# Management principles

- Hypertensive urgency can be treated in an outpatient setting with oral medications over 24-48 hours
- Medications could be
  - Beta-blockers
  - Diuretics
  - ACEI
  - ARB
  - CCB



# Hospitalization

---

- Total of 426 patients were referred to the hospital
  - 100 (0.17%) were admitted
    - At 7 days:
      - Primary outcomes (composite MI, stroke, TIA) were reached
        - » 0.1% in the discharged home pts
        - » 0.5% in the hospital pts
  - In those with SBP > 220
    - At 7 days:
      - Primary outcomes were reached
        - » 0.2% in the discharged home pts
        - » 0% in the hospital pts



# What should we do?

---

- ACC/AHA 2017
  - “There is no indication for referral to the ED, immediate reduction in BP in the ED, or hospitalization for pts with hypertensive urgency”



**YOU – THE ER DOCTOR**

CEPIS Complaint fall				Family MD Not found, In Epr						
CTAS <b>2</b> Emergent		HR (1/minute) 60	RR (1/minute) 16	BP (mmHg) 167/93	SPO2 (%) 92	TEMP (C) 36.5	BG (mmol/L)	GCS (1/15) 15	Allergies No known medication allergy/adverse reaction, No known food allergy/adverse reaction, No known latex/other allergy/adverse reaction	
Presenting Complaint	fall									
Image Notes	as per ems, pt from NH and had unwitnessed fall. pt last seen in bed at 0400, checked by staff at 0520 and found pt on floor. awake, french ... (more in EPR)									
Initial Assessment Time	Assessed By		[Redacted]							
Time	Orders			Ordered By		Done By		Time		
<p>Please get whole chart from recent ER visit &amp; medicine consult note - 02/10/24.</p> <p>Please ask clerk to contact his NLT &amp; ask one of the night nurses at NLT to call Dr. Ahmed on his cell phone # - number attached</p> <p>CT needs orders</p> <p>Dress &amp; clean wound.</p>										
1107	N.O. Room for 10min to x1 new Dr. Ahmed to A. Abromovicz		RU							
Consultation	Called	Arrived	Consultation	Called	Arrived	Consultation	Called	Arrived		
<p>Discharge Instructions: Take all medications as prescribed. Return to ED if worse. Follow up with your family doctor in 8 days</p> <p>Please call Flourish at 416-781-6433 to inform of discharge.</p> <p>If unable, return to ER</p> <p>Laevata report, Blood work CT normal.</p> <p>Severance</p>										
Follow up Clinic			Follow up Date			Follow up Time				
<input type="checkbox"/> LWBS <input type="checkbox"/> LAMA <input type="checkbox"/> DOA <input type="checkbox"/> Died <input type="checkbox"/> Discharge instructions given										
Diagnosis fall (C) D3 Lac report				Admit/Transfer to		Admitting Physician				

doctors' strike



# EHR and digital discharge summary

Legible handwriting

EPIC

Meditech

Lab reports

Imaging reports

## Comments from LTC docs

I don't think that ER physicians understand who is in long-term care and/or what our resources are

They also seem to have issues with retirement home vs LTC

I am often aggravated by ER physicians who criticize the LTC home openly to the family when they have no idea of what happened

## Comments from LTC docs

When we send documentation (admission note, progress notes, vitals, MAR), it is rarely read

I wonder if ER doctors has any appreciation of who we don't send

I hate the very common illegible ER reports which are very common

A direct phone call to ER doc does not usually work. Lucky to get a nurse

## Comments from ER docs

I do find a clear MRP/transferring MD cell phone is key.

The scribbles are usually not helpful so a conversation is best.

Perhaps a paragraph that succinctly states the doc's concern would be possible? I find that goes so far to understanding why the transfer occurred.

**POSSIBLE SOLUTIONS**





# For ER docs

Use	Use Frailty tool consistently
Understand	Understand what type of facility the patient is coming from
Consider	Consider the family support system (who are the SDM?)
Understand	Understand the levels of care and the guidance it provides
Refer	Refer to BEERS/STOP medication list before prescribing medications to elderly patients with frailty

# For ER docs

Write

Write legibly

Provide

Provide discharge labs, imaging, and summary notes

Provide

Provide less nebulous specialty follow-ups (or provide name of specialist and clinic number if possible)

## For LTC docs

For hospital interventions, figure out an ideal time for such interventions (unless it is an emergency)

Patients with Acute high Blood Pressure without end-organ damage do not need hospitalization

Discuss case with on-call MD and find alternative solutions other than “sending to the ER”

## For LTC docs

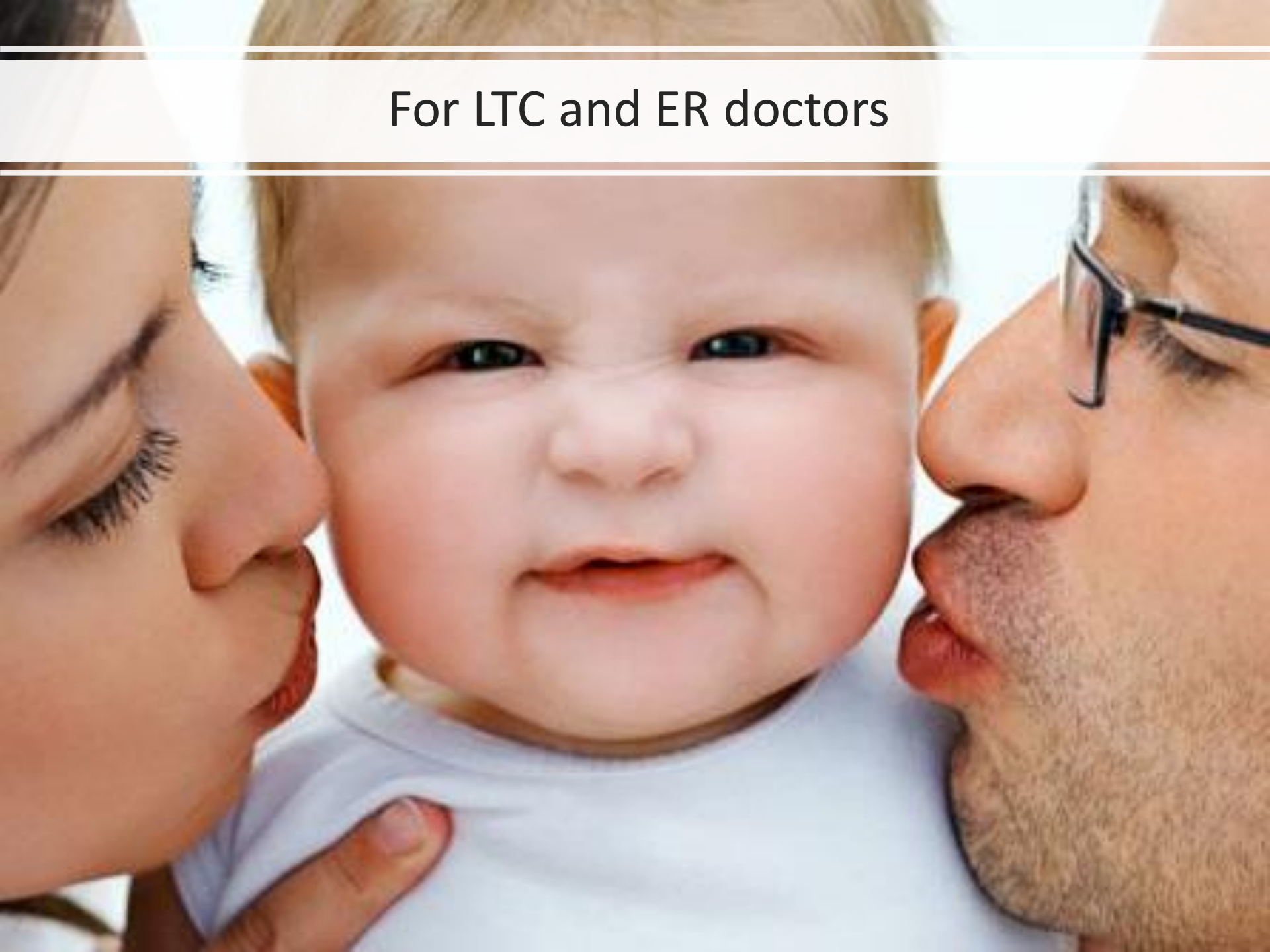
Notes from RN/MD of the last few days (see progression of condition) - notes from PCC

A direct phone (with extension) to reach the RN of the unit

Phone number to reach the on-call physician

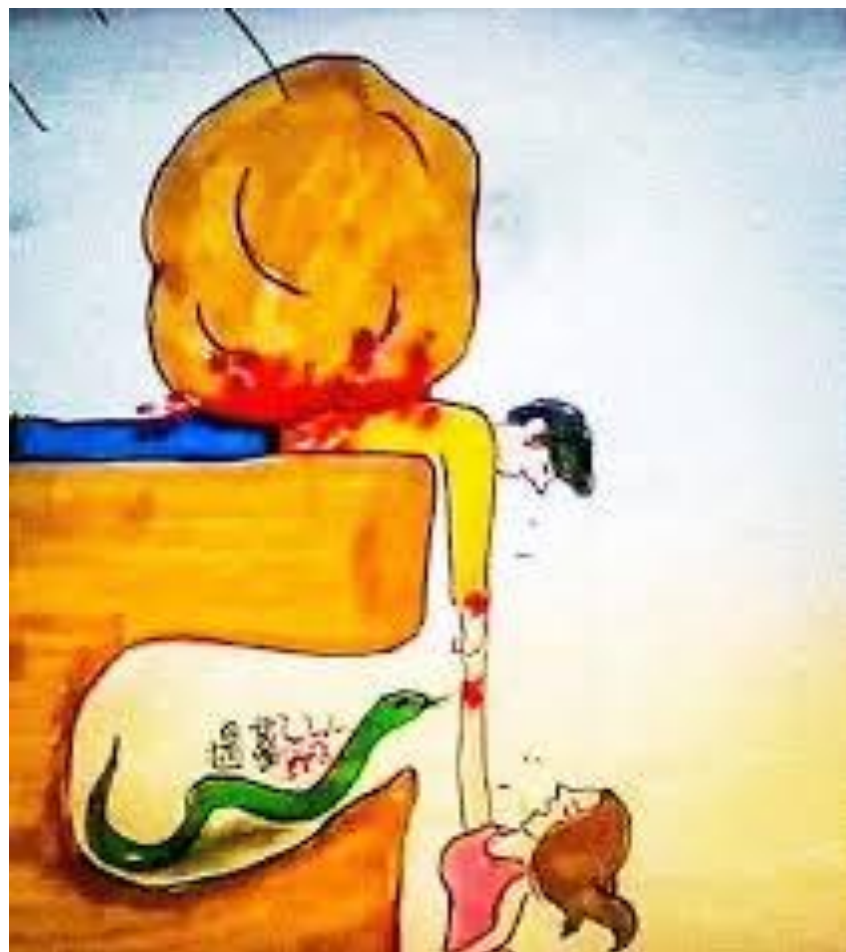
Call the ER and speak to the ER doctor

For LTC and ER doctors



For LTC and ER doctors











KEEP  
CALM  
AND  
LET'S HELP  
EACH OTHER

**THANK  
YOU**

